



High Precision Vertical Machining Center Model: VM740



- ◆ Used fixed column, cross structure sliding table have high rigidity, high accuracy. After installation can be automatically complete the working procedure of drilling, boring, milling etc.
- ◆ It designed for machining a variety of complex parts, such as small & middle size box, dish, plate etc. and widely used in various of industries, for example auto parts, valve, mold.

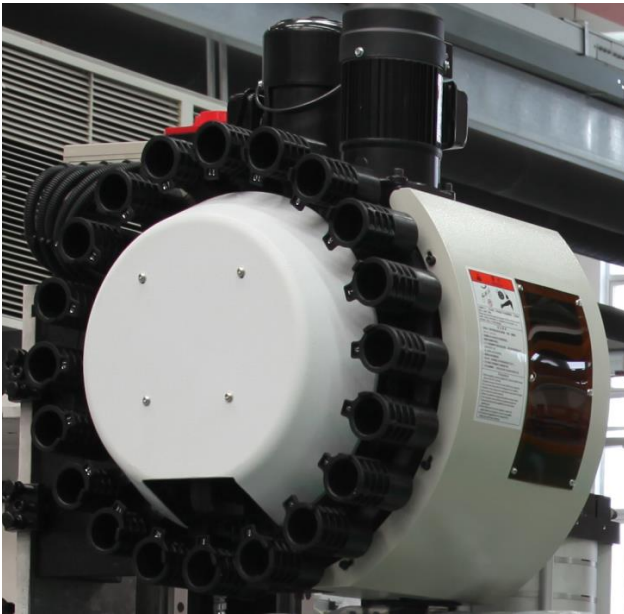
Standard configuration

- FANUC 0i MF(5)Plus CNC system, 2MB system memory, 5.5/7.5KW spindle motor
- 3 axis linear guide way (Taiwan HIWIN/PMI)
- 10000rpm belt drive spindle, BT40
- 20 tools arm type tools magazine (Taiwan DETA)
- Machine body washing system
- Auto oil lubrication system
- Tri-color light
- Air gun
- Lighting lamp
- Full enclosure splash guard
- Telescopic covers (3 axis)
- Standard accessories, technical documents, basal installation kit
- Sea-worthy package

BED, COLUMN AND SADDLE

- The bed is a rigid, one piece casting made from fine grain Meehanite cast iron with heavy ribbing to help prevent vibration and deformation during heavy cutting.
- Extra wide spacing of the roller guide ways provide for excellent support of the saddle, regardless of the load distribution on the table.
- The table is fully supported by the saddle in all positions with no overhang.
- The rigid box type column casting is heavily ribbed to help prevent twisting or distortion as well as helping to dampen vibration during high speed or heavy machining.



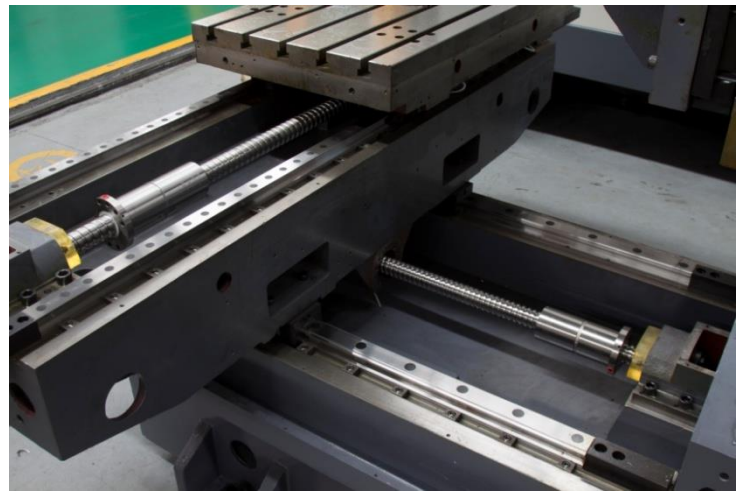


VERTICAL DISC TYPE MAGAZINE

- Cylindrical cam indexing mechanism features high indexing accuracy and minimum trouble, long service life, the structure is simple, easy maintenance
- The whole importing engineering plastic knife set, light weight, high strength, is not easy to damage
- Double bearing separate knife arm, maze & sealed ring, the noise is small
- Electronic switch all series USES the import original, quality assurance

BALL SCREW AND GUIDEWAYS

- All axes are with Linear Guide type for higher stiffness, accuracy, and surface finish.
- C3 level high speed silence ball screw with heat inhibiting function feature. Screw diameter* pitch: 32*16/32*16/32*10,
- The ball screw adopts the pre-load process, which effectively reduces the backlash in the ball screw and helps reduce the heat transfer and friction. This improves the accuracy and strengthens the rigidity and heat deformation resistance.



SPINDLE

- The spindle is a true cartridge type unit supported by high precision ceramic ball bearings that offers minimized noise, vibration and thermal growth. The powerful 10000 rpm, 5.5/7.5kw motor is standard on the machine, possibility extend to 7.5/11kw.
- Spindle air blow and air curtain design provide the positive air pressure to protect the spindle. 2 coolant tube and 1 air tube are standard on the machine





Specification	VM740
Capacity	
X/Y/Z axis travel	650 / 420 / 500mm (25.6" / 16.5" / 19.7")
Guide Way	
X/Y/Z guide way span	265mm 30 ball / 440mm 30 roller / 275mm 30 roller (10.4" / 17.3" / 10.8")
Ball Screw	
X/Y/Z ball screw	Φ32x16mm
Ball screw class	C3
Driving Motor	
X/Y/Z motor	1.8 / 1.8 / 3.0kw (11/11 / 20Nm)
Motion	
X/Y/Z axis rapid travel	40 / 40 / 30 m/min
Cutting speed	1-10000mm/min
Positioning accuracy (Full stroke) XYZ	0.008mm
Repeatability XYZ	0.005mm
Work Table	
Table length x width	750 x 420mm (29.5" x 16.5")
Table surface to floor	860mm (33.9")
Table Max. loading weight	350kg
T slot (NxWxD)	14x3mmx125mm
Main Spindle	
Spindle nose to table	120-620mm (4.7"-24.4")
Spindle center to Z axis	470mm (18.5")
Spindle type	BT40
Spindle speed	10-10000rpm
Spindle motor	5.5/7.5kw (7.4/10 hp)
Spindle torque	26.3/35Nm
Automatic Tool Magazine	
Number of tools	20
Tool shank	BT40
Max tool Dia./length /weight	Φ80mm/300mm/8kg
Tools change time	1.7 sec
Processing ability	
Drill / Threading	Φ30mm / M16
General	
Foot print (LxWxH) / Machine weight	2665x1980x2645mm / 4000 kg
Utility	
Power	20kVA/30A, 220V/60Hz/3PH
Compressed air	Pressure: 0.6~0.8Mpa, Consumption: 280 L/min
Lubrication System	
Tank capacity / Pump motor / Pressure	4L / 0.035 kw / 2.5 MPa
Flood Coolant System	
Tank capacity / Pump motor	160L / 0.37/0.55 kw