



震环机床



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Zhenhuan Machine Tool

VMC1050

Technical Data



ZHEJIANG ZHENHUAN CNC MACHINE TOOL CO., LTD.

Zhejiang Headquarter and Plant:

Add: Mechanical & electrical industrial zone, Yuhuan, Zhejiang, 317600 China

Phone: +86-576-87226292 Fax: +86-576-87226290 www.zmat.cn E-mail: gqp@zmat.cn





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Enterprise Culture



Z-MaT stands for Zhenhuan Machine Tool Company, one of the largest and fastest growing machine tool builders – worldwide. Z-MaT manufactures a wide range of CNC machines, which includes CNC Turning Centers, Horizontal CNC Lathes, Vertical Machining Centers, CNC Milling Machines and Special Purpose Machines.

In addition, Z-MaT is recognized for the company's advanced development and technological advantage in the field of live tooling products. Live tooling operations include axial and radial milling, drilling and tapping. These live tooling applications are available on a wide variety of Z-MaT CNC turning machines.

As of today, Z-MaT has more than 23 machine model series, with more than 100 models of CNC turning machines in the company product line. This broad line of CNC lathes has brought recognition to Z-MaT as a world-wide leader in precision turning machines.

With distribution around the world, investment from Hong Kong, research and development centered in Taiwan, and manufacturing/assembly in China, Z-MaT is a responsible international corporation. Z-MaT is known and recognized for providing unmatched support to customers, employees, and to the environment.

Z-MaT is committed to building partnerships with educational institutions, community organizations, governmental agencies and private companies. Our ultimate goal is to be a conscientious public partner in providing smart manufacturing solutions that serve industry and positively impact the world.



联合国注册供应商

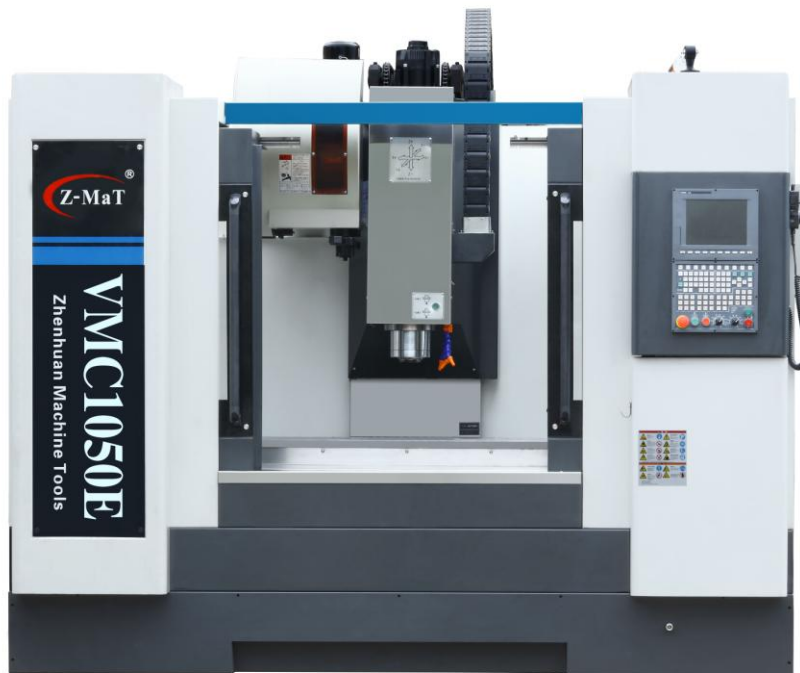




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Machine Characteristics

1. Appearance



2. Structure

MIKI coupling
NSK ballscrew bearings

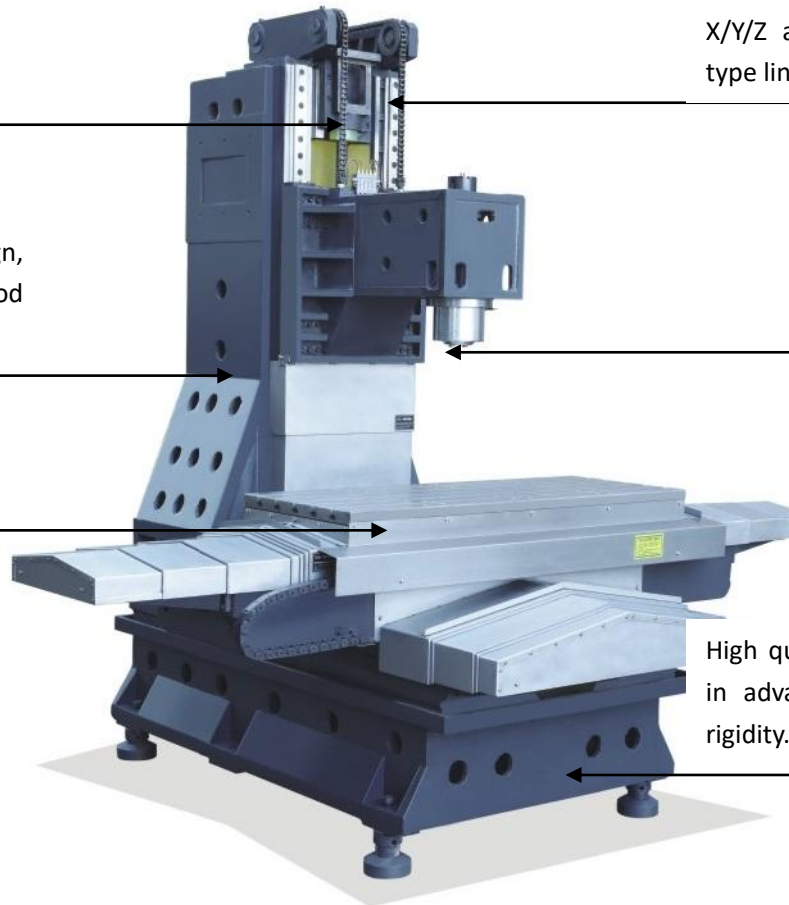
X/Y/Z axis is PMI roller type linear guideway

Y-shape column design,
stable structure and good rigidity

Table size:
700mm × 400mm

Royal spindle unit
Max. speed 8000rpm

High quality iron casting designed
in advanced structure and good rigidity.



- Advanced casting design uses precision annealing with traditional aging methods used on each casting. Provides optimal damping of vibration and ensures long-term stability and quality results.
- Both base and column have wide spacing between ways, resulting in a design that is solid as a rock and stable as a mountain.
- PMI roller type linear guideways is standard for three axes, the rating load is 150% over standard ball type linear guideways.
- High precision PMI ballscrew with pre-stretching assembly technology keeps machine in good processing accuracy in long time working and little thermal deformation.
- 4th axis rotary table is optional as flexible column design, offers extra function and meets different production requirements.

Standard Configurations

No.	Name	No.	Name
1	Fanuc CNC system	9	Tool box
2	Fanuc feeding system	10	Foundation pads
3	Fanuc spindle motor	11	indicator light
4	24-station tool magazine	12	Lamp
5	Spindle unit 8000rpm	13	Air conditioner
6	Air gun	14	USB connector
7	Coolant system	15	Rigid tapping function
8	Auto lubrication system	16	Safety door switch

Options

No.	Name	No.	Name
1	Mitsubishi, Siemens, GSK	7	Auto tool setter
2	Coolant through spindle center	8	4 th axis rotary table
3	Spindle oil coolant	9	Oil water separater
4	Chip conveyor and cart	10	12000rpm direct driven spindle
5	Oil mist collector	11	M30 APO
6	Chip punching		

Main Parts List

No.	Name	Manufacturer	Remark
1	CNC System	FANUC	
2	Spindle Servo Motor	FANUC	
3	X/Y/Z Axis Servo Motor	FANUC	
4	Spindle bearings	NSK	
5	X/Y/Z Axis ballscrew bearings	NSK	
6	X/Y/Z Axis linear guideway	PMI	Roller type
7	Spindle unit	Royal	
8	Tool magazine	POJU	
9	Coolant pump	YUNHAI	
10	Lubrication pump	CHAORUN	
11	Pressurized cylinder assemblies	POJU	
12	Tool setter	RENISHAW	TS27R
13	X/Y/Z Axis couplings	MIKI	
14	Air conditioner	POINT	
15	4 th axis rotary table	HW	
16	Spindle oil coolant	POINT	

2. Famous Brand Function Parts



Lubrication Pump



AirTAC
Air Processing Unit



YUNHAI
Coolant Pump



Schneider
Electrical Component



POJU
Tool Magazine



Point
Air Conditioner



Rotary Table



Royal
Spindle Unit



Chain Type
Chip Conveyor



Partners & Quality Components

Z-MaT only uses high-quality, precision components in the manufacture of our line of professional quality, production grade CNC machines. While this step is more expensive, building quality components into our machines is the only way to achieve the quality results and long service life our customers have come to expect.

Technical Parameters

VMC1050

Table	Table size	mm	1300×520
	T slot (width×nos.×distance)	mm	18×5×90
	Max. load	Kg	600
Travel	X/Y/Z axis travel	mm	1050/500/5600
	Spindle nose to table	mm	120-800
	Spindle center to column	mm	580
	X/Y/Z axis rapid traverse	m/min	24/24/20
	Guideway type		Linear guideway
Spindle	Spindle type		BT40
	Main servo motor	kW	11/15kW
	Spindle speed	rpm	8000, 12000*
Magazine	ATC capacity/ type	No./type	24/Arm
	Max. weight of tool	Kg	8
Others	Power capacity	kVA	21
	Weight (about)	Kg	6800
	Overall dimension(L×W×H)	mm	3000×2150×3000

Note: “*” means optional items