



震环机床

Zhenhuan Machine Tool

FLASH FL300

Technical Data



 ZHEJIANG ZHENHUAN CNC MACHINE TOOL CO., LTD.

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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.

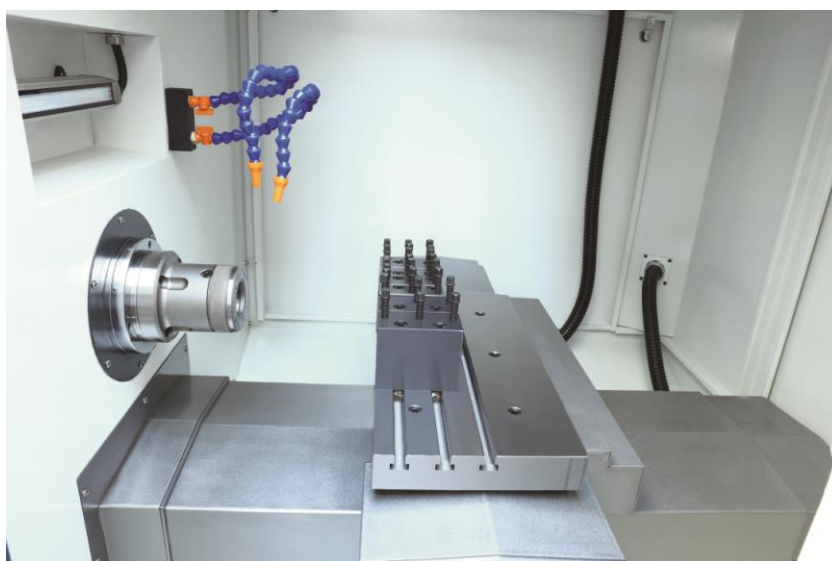


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Machine Characteristics

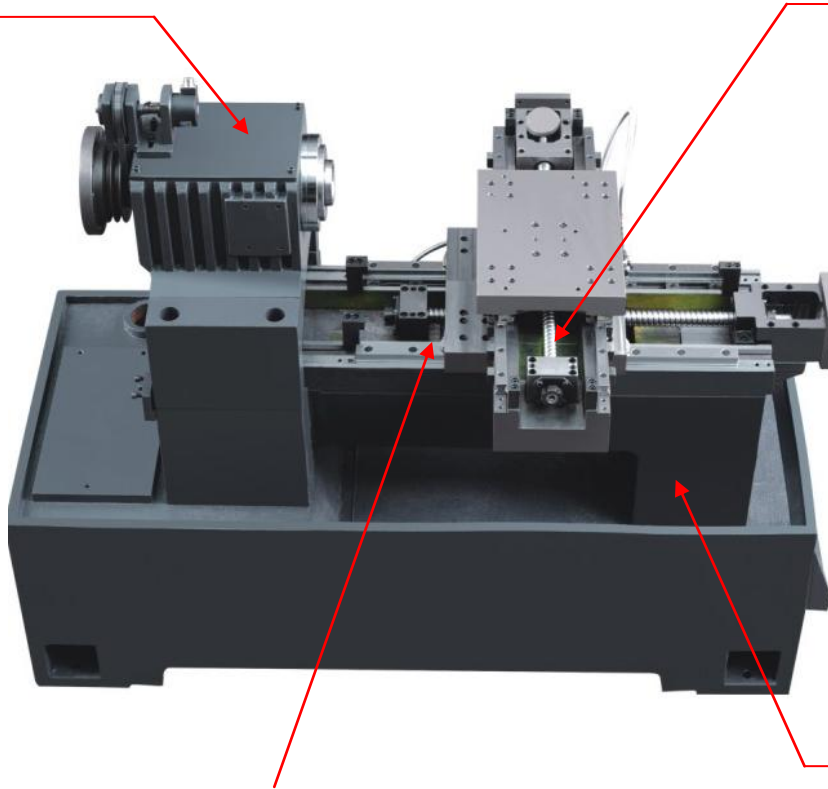
1. Appearance



2. Structure

Good structure spindlestock is with good stability and strong carrying ability.

Ballscrews are mounted between the guideways to reduce side torque and friction and increase speed and longevity. The screw adopts advanced pre-tensioning technology to increase precision.



X and Z axes are linear guideway with higher accuracy and faster speeds than ordinary box ways.

One-piece mono-black casting provides better damping capacity and processing accuracy

- One-piece square casting bed with true slant structure keeps machine in good rigidity and stability.
- Taiwan PMI high precision linear guideway offers good processing accuracy. High precision PMI ballscrew with pre-stretching assembly technology keeps machine in good processing accuracy in long time working and little thermal deformation.
- Higher spindle speed spindle unit with NSK bearings is optional to keep machine in good process accuracy in long working life.
- The C-axis functionality of the spindle combines Y-axis live tools and end-milling live tools for milling, drilling, and tapping capabilities. With the C-axis functionality complete parts machining becomes faster and easier.

Standard Configurations

No.	Name	No.	Name
1	Syntec CNC system	9	Tool box
2	YASKAWA feeding system	10	Foundation pads
3	CTB motor 5.5/7.5kW	11	indicator light
4	Gang type tools	12	Lamp
5	Spindle 3000rpm	13	Heat exchanger
6	6" hydraulic chuck	14	USB connector
7	Coolant system	15	Rigid tapping function
8	Auto lubrication system	16	Safety door switch

Options

No.	Name	No.	Name
1	Fanuc, Mitsubishi, Siemens	5	Spindle unit (NSK, 4500rpm)
2	Spindle with C axis	6	Air conditioner
3	Oil water separator	7	8-station turret
4	Y axis with live tooling	8	Bar feeder

Main Parts List

No.	Name	Manufacturer	Remark
1	CNC System	SYNTEC	21TA
2	Spindle Servo Motor	YASKAWA	
3	X/Z Axis Servo Motor	GSK	
4	Spindle Unite Bearings	NSK	
5	X/Z Axis Ballscrew Bearings	HRB	
6	X/Z Axis Ballscrew	PMI	
7	X/Z Axis Linear Guideway	PMI	
8	Spindle Unit	GIESSEN	A2-6
9	8-station turret	Pragati	
10	Coolant Pump	YUNHAI	
11	Lubrication Pump	HURUN	
12	Heat Exchanger	POINT	

2. Famous Brand Function Parts



Autogrip
Hydraulic Chuck



PMI
Linear Guideway



PMI
Ballscrew



HURUN
Lubrication Pump



NSK Bearings
Spindle Unit (optional)



YUNHAI
Coolant Pump



Schneider
Electrical Component



Pragati
8-station turret (optional)



Live tooling on Y axis
(optional)



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

Flash F300

Max. swing diam. over bed		mm	300
Max. length of workpiece		mm	260
Max. swing diam. over slide		mm	135
Max. spindle speed		rpm	3000, 4500*
Main motor		kW	5.5
Diam. of spindle Bore		mm	48, 62*
Max. diam. of through-hole		mm	40, 52*
X/Z axis	Travel	mm	350/300
	Rapid traverse	m/min	25/25
Y axis*	Travel	mm	120-150
	Rapid traverse	m/min	15
Tool	Tool type	mm	Gang type, Turret*
	No. of tool		4-6(gang type), 8*
	OD of Tool	mm	20×20/ Ø32
Live tooling*	Motor	kW	1.5
	No. of live tooling		1-6
	Shank size		ER20, ER25
	Speed	rpm	3000
Power capacity		kVA	9
Weight (about)		Kg	1800
Overall dimension (L×W×H)		mm	1800×1200×1600

Note: “*” means optional items