



震环机床

Zhenhuan Machine Tool

FLASH SL280 *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.



Machine Characteristics

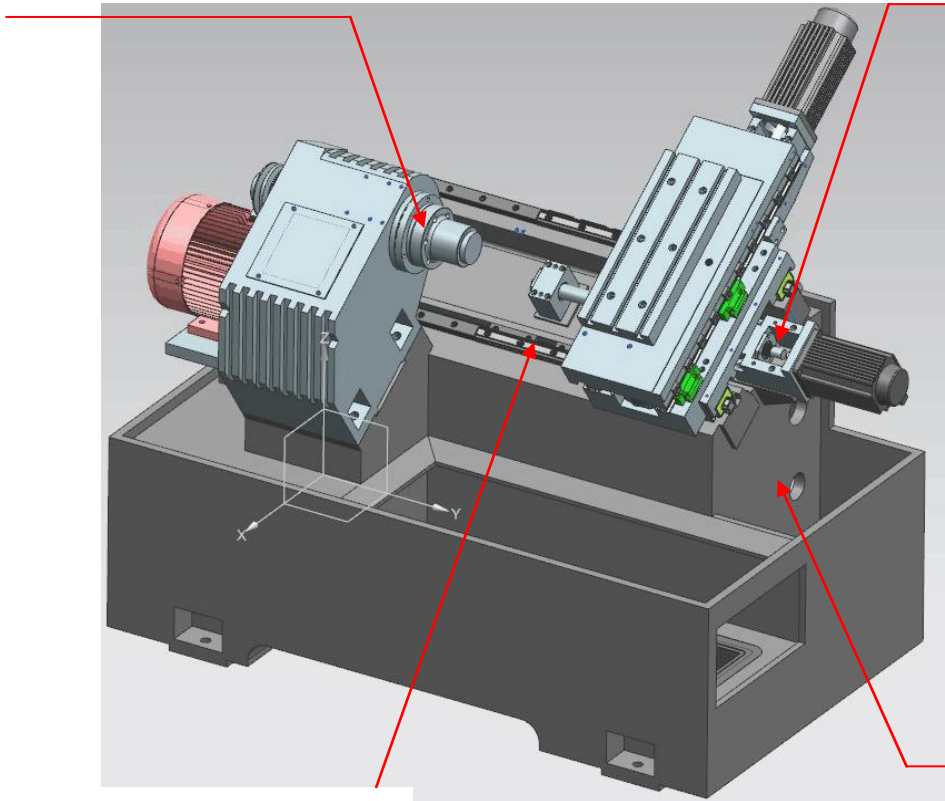
1. Appearance



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.



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

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

- One-piece square casting bed with true slant structure keeps machine in good rigidity and stability.
- Germany Rexroth high precision linear guideway offers good processing accuracy, and Taiwan roller type linear guideway is optional for better rigidity.
- Higher spindle speed spindle unit with NSK bearings is optional to keep machine in good process accuracy in long working life.
- Gang type tools allow for a broad selection of tooling-allowing for more turning operations and reduced cycle time. The results often mean more parts made at the lowest price possible.
- High precision PMI ballscrew with pre-stretching assembly technology keeps machine in good processing accuracy in long time working and little thermal deformation.

Standard Configurations

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

Option

No.	Name	No.	Name
1	Fanuc, Mitsubishi, Siemens	5	Spindle unit (NSK, 4500rpm)
2	6' hydraulic chuck	6	Air conditioner
3	Oil water separator	7	Fly cutter or live tooling
4	Chip conveyor with cart	8	Bar feeder

Main Parts List

No.	Name	Manufacturer	Remark
1	CNC System	SIEMENS	
2	Spindle Servo Motor	CTB	
3	X/Z Axis Servo Motor	SIEMENS	
4	Spindle Bearings	HRB	P4
5	X/Z Axis Ballscrew Bearings	HRB	
6	X/Z Axis Ballscrew	PMI	
7	X/Z Axis Linear Guideway	Rexroth	
8	Spindle Unit	GIESSEN	A2-6
9	Gang type tool	Z-MaT	
10	Coolant Pump	YUNHAI	
11	Lubrication Pump	HURUN	
12	Heat Exchanger	POINT	

2. Famous Brand Function Parts



AUTOGRIP
Hydraulic Chuck



Rexroth/PMI
Linear Guideway



PMI
Ballscrew



HURUN
Lubrication Pump



NSK Bearings
Spindle Unit (optional)



YUNHAI
Coolant Pump



Schneider
Electrical Component



Gang type tool



Point
Heat Exchanger



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 SL280

Capacity	Max. swing diam. over bed	mm	420
	Max. length of workpiece	mm	200
	Max. swing diam. over slide	mm	140
Spindle	Spindle speed	rpm	3000
	Main motor	kW	5.5/7.5
	Diam. of spindle Bore	mm	48
	Max. diam. of through-hole	mm	40
X/Z axis	Travel	mm	280/240
	Rapid traverse	m/min	20/20
Tools	Type		Gany type
	No. of tool stations		4-6
	OD of Tool	mm	20x20/Ø25
Others	Power capacity	kVA	11
	Weight (about)	Kg	2000
	Overall dimension(LxWxH)	mm	1750×1320×1500

Note: “*” means optional items