



震环机床

Zhenhuan Machine Tool

STAR SL6

Technical Data



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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



Machine Characteristics

1. Appearance

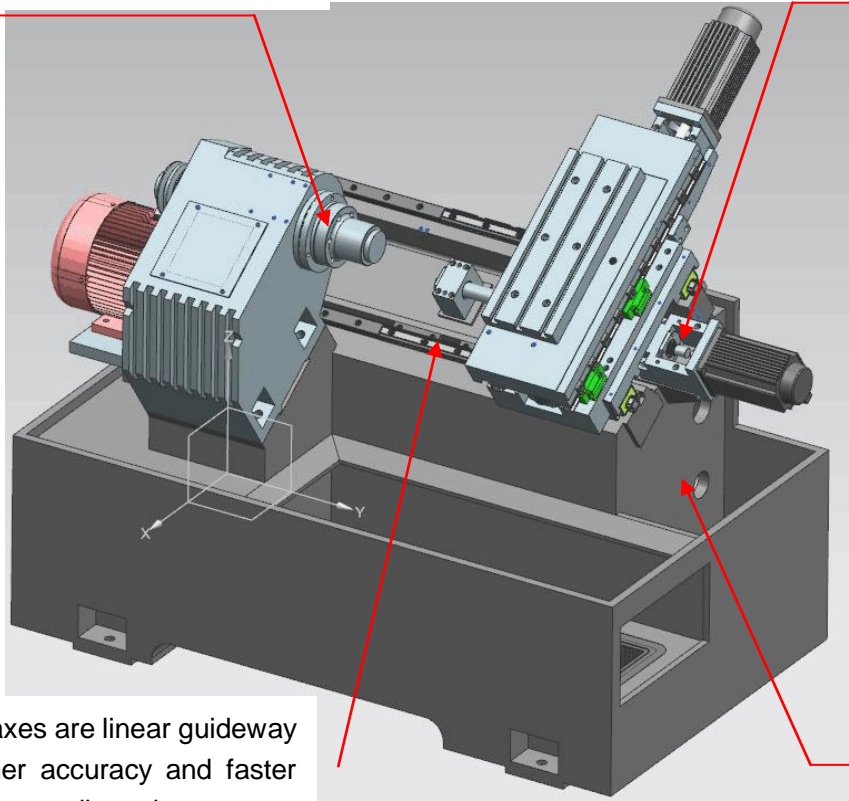


STAR SL6 is designed for small size disc type and short bar products production at a lower price point.

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.
- 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.
- Advanced turret with fast tool indexing and good repeatability offers good efficiency.
- 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	GSK CNC system	9	Tool box
2	GSK feeding system	10	Foundation pads
3	GSK motor 5.5/7.5kW	11	indicator light
4	8-station turret	12	Lamp
5	Spindle 3000rpm	13	Heat exchanger
6	6' hollow hydraulic 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	Auto tool setter
2	12-station turret	6	Air conditioner
3	Oil water separator	7	Oil mist collector
4	Chip conveyor with cart	8	Spindle unit (NSK, 4500rpm)

Main Parts List

No.	Name	Manufacturer	Remark
1	CNC System	GSK	
2	Spindle Servo Motor	GSK	
3	X/Z Axis Servo Motor	GSK	
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/PMI	
8	Spindle Unit	GIESSEN	A2-6
9	Standard Turret	PRAGATI	8/12 station
10	Coolant Pump	YUNHAI	
11	Lubrication Pump	HURUN	
12	Heat Exchanger	POINT	

2. Famous Brand Function Parts



Chadox
Hydraulic Chuck



Rexroth/PMI
Linear Guideway



PMI
Ballscrew



HURUN
Lubrication Pump



NSK Bearings
Spindle Unit (optional)



YUNHAI
Coolant Pump



Schneider
Electrical Component



Pragati
Turret



Point
Heat



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

STAR SL6

Capacity	Max. swing diam. over bed	mm	400
	Max. length of workpiece	mm	230
	Max. swing diam. over slide	mm	200
Spindle	Spindle speed	rpm	3000, 4500*
	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	155/230
	Rapid traverse	m/min	20/25
Turret	Center height	mm	63
	No. of tool stations		8, 12*
	OD of Tool	mm	20x20, 16x16*
Others	Power capacity	kVA	11
	Weight (about)	Kg	2100
	Overall dimension(LxWxH)	mm	2050×1450×1900

Note: “*” means optional items