



震环机床

Zhenhuan Machine Tool

STAR STL8 *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



STL8 is designed by our R&D center in Taiwan, and with famous function parts the quality is as good as Taiwan machine.

- 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.
- High precision PMI ballscrew and good rigidity spindle unit with NSK bearings keep machine in good process accuracy in long working life.
- Advanced turret with fast tool indexing and good repeatability offers good efficiency.
- Hydraulic tailstock makes machine be with good universality, and automatic tailstock (linear guideway, hydraulic driven) is optional for special processing program.

2. Famous Brand Function Parts



Chadox
Hydraulic Chuck



Rexroth/PMI
Linear Guideway



PMI
Ballscrew



HURUN
Lubrication Pump



NSK Bearings
Spindle Unit



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.

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 | 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 | Turret | PRAGATI | 8/12 station |
| 10 | Coolant Pump | YUNHAI | |
| 11 | Lubrication Pump | HURUN | |
| 12 | Heat Exchanger | POINT | |

Standard Configurations

| No. | Name | No. | Name |
|-----|---------------------------|-----|------------------------|
| 1 | 8-station turret | 8 | Foundation pads |
| 2 | Spindle unit | 9 | indicator light |
| 3 | 8' hollow hydraulic chuck | 10 | Lamp |
| 4 | Hydraulic tailstock | 11 | Heat exchanger |
| 5 | Coolant system | 12 | USB connector |
| 6 | Auto lubrication system | 13 | Rigid tapping function |
| 7 | Tool box | 14 | Safety door switch |

Optional Configurations

| No. | Name | No. | Name |
|-----|-------------------------|-----|--------------------|
| 1 | Fanuc, Mitsubishi | 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 | 11kW spindle motor |

Accessories and manuals list

| No. | Name | Spec. | QTY | Remark |
|-----|--|----------|--------|--------|
| 1 | Inner hexagon spanner | 1.5-10 | 1 set | |
| 2 | Double open-end wrench | 12-14 | 1 pc | |
| 3 | Double open-end wrench | 17-19 | 1 pc | |
| 4 | Cross screwdriver | 2 Slot 2 | 1 pc | |
| 5 | Foundation pads | | 6 pcs | |
| 6 | Conformity certificate with test sheet | | 1 | |
| 7 | Operation Manual | | 1 copy | |
| 8 | Operation manual for CNC system | | 1 copy | |
| 9 | Programming manual | | 1 copy | |
| 10 | Spindle driver manual | | 1 copy | |
| 11 | Packing list | | 1 copy | |
| 12 | Tool box | | 1 pc | |

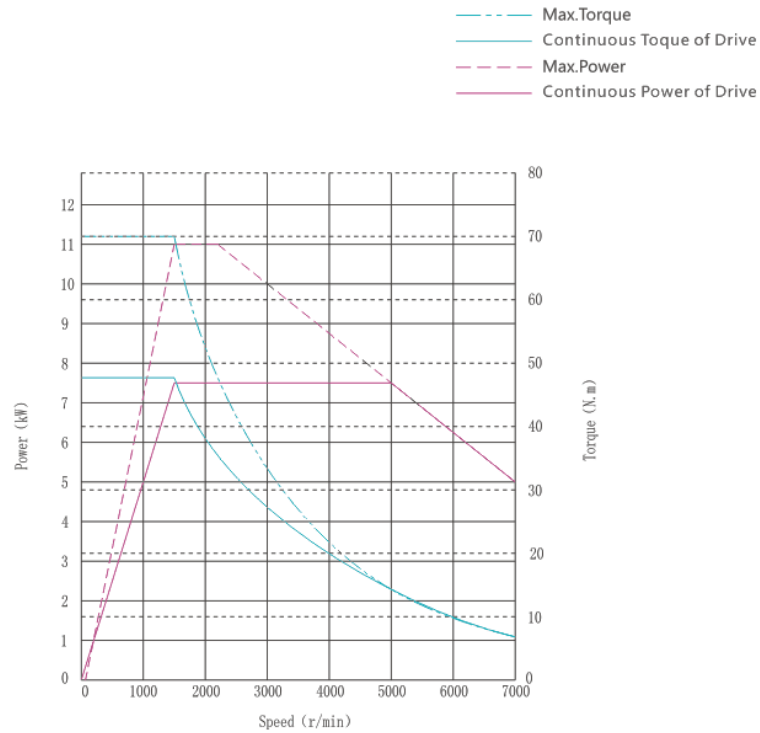
Technical Parameters

STAR STL8

| | | | |
|-----------|-----------------------------|-------|----------------|
| Capacity | Max. swing diam. over bed | mm | 420 |
| | Max. length of workpiece | mm | 400 |
| | Max. swing diam. over slide | mm | 210 |
| Spindle | Spindle speed | rpm | 2000, 3500* |
| | Main motor | kW | 7.5/11 |
| | Diam. of spindle Bore | mm | 62 |
| | Max. diam. of through-hole | mm | 52 |
| X/Z axis | Travel | mm | 180/400 |
| | Rapid traverse | m/min | 15/20 |
| Turret | Center height | mm | 80 |
| | No. of tool stations | | 8, 12* |
| | OD of Tool | mm | 25x25, 20x20* |
| Tailstock | Type | | hydraulic |
| | Taper of quill | | MT4 |
| | Travel of quill | mm | 80 |
| | Travel of tailstock | mm | 400 |
| Others | Power capacity | kVA | 15 |
| | Weight (about) | Kg | 3300 |
| | Overall dimension(LxWxH) | mm | 3300×1720×1775 |

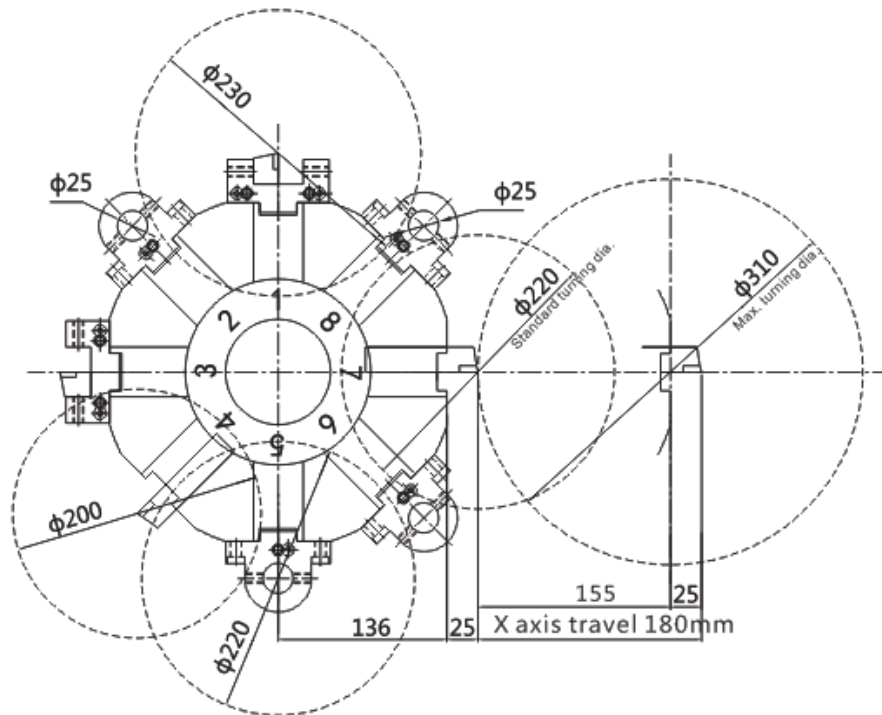
Note: “*” means optional items

Main motor torque diagram



Interference Figure

1. Turret Interference Figure



Pragati 8-station turret BTP-80

2. Mechanical interference figure

