



6. Automatic tool change part (optional)

Automatic tool change method: clip arm type

Tool selection method: two-way arbitrary

Tool magazine capacity: 14 (optional 16/20/.. put)

Maximum tool length: 300mm

Maximum tool weight: 7kg

Maximum diameter of the tool: $\phi 80$ (full knife state) $\phi 140$ (clear knife state)

Automatic tool change time: 1.4s

1. Moving trip

X axis (table left and right stroke) stroke: 500 mm

Y axis (table front and rear stroke) stroke: 400 mm

Z axis (spindle head up and down stroke) stroke: 300mm

Main shaft nose to work station Distance: 200~500mm (can be increased by 200mm)

2. Specifications

Workbench size: 620 × 420mm

T-slot number: 3

T-slot width: 18mm

Workbench maximum load: 250kg

Spindle speed series: stepless speed regulation

Spindle speed range: 60-12000rpm

Main shaft Cone hole: ISO NO 30

3. Machine accuracy standards

JB / T 8771.2-1998 "Vertical machining center geometric accuracy test"

JB / T 8771.4-1998 "Processing Center Linear Positioning Accuracy and Repeat Positioning Accuracy Test"

JB / T 8771.7-1998 "Processing Center Precision Inspection of Finished Parts"

JB / T 8801-1998 "Processing Center Technical Conditions"

Positioning accuracy: $\pm 0.01\text{mm}$ Repeat positioning accuracy: $\pm 0.005\text{mm}$

4. Spindle drive system

Spindle motor power (stepless speed regulation): 5.5 KW

Spindle lubrication: Lubricated with imported advanced grease, fully enclosed, maintenance free

The spindle adopts Taiwan high-speed high-precision spindle

5. Feed system

X/Y/Z axis fast moving speed: 48m/min

Cutting feed rate: 1~10000mm

Manual feed rate: 0~2000mm

Minimum setting and moving unit: 0.001mm

Ball screw (diameter × pitch) $\phi 32 \times 10\text{mm}$ (X, Y, Z)

7. Mechanical characteristics of the machine:

The machine is a wide-type vertical bed, a precision-grade high-precision horizontal table, and a vertical high-speed drilling and tapping machine with a reinforced single column.

X, Y, Z arbitrary coordinates and three-coordinate linkage control can be realized at high speed.

The X, Y and Z axes are supported by Taiwan's well-known brands of precision screw rods and special bearings for ball screws imported from Japan.

P-class silent linear slides using the latest international standards

The spindle uses high-speed, high-precision world-class bearings.

8. Machine protection

Machine guards are safe, complete and reliable

Comply with GB15760-1995 "General Technical Spare Parts for Safety Protection of Metal Cutting Machines"

Machine noise: in line with national standards <75db

The electric control cabinet is cooled by a cold heat exchanger, sealed and dustproof, and the dustproof grade is IP65.

9. Lubrication system

The automatic lubrication device is used to apply forced lubrication to each sliding surface and ball screw. The oil filling time interval and oil filling amount are adjustable.

Lubricating oil selects T68# rail lubricating oil

10. Cooling system

Cooling system volume 200L

Cooling pump, motor power 0.5KW, flow rate 40L/min

Cutting cooling for the Vientiane nozzle spray coolant

11. Pneumatic system

The pneumatic system is equipped with a three-point combination, pressure switch, solenoid valve, etc., to achieve pneumatic tool change, spindle blow, pressure 6-8kgs / cm2 flow 220L / min, optional configuration of external air gun.

12. Electrical system

It complies with the standard of GB/T5226.1-1996 "First part of industrial machinery and electrical equipment: General technical conditions".

The system has perfect and reliable interlocking, safety protection and fault self-diagnosis alarm function.

Equipped with RS232 standard communication interface, you can use the calculator floppy disk to store the program.

Other systems can be selected according to user requirements

13. Machine parts and purchased parts

Machine parts and purchased parts are selected from domestic and foreign quality brands (see list of purchased parts for details)

14. Three-color warning light

Red light: display alarm

Yellow light: the end of the display program

Green light: The display program is being executed

15. Machine power supply

Power supply voltage range: AC three-phase 380V ± 10% 50Hz

Total power consumption of the machine: up to 25KVA

16. Normal use temperature

Ambient temperature: 0~40°C

Humidity: ≤85%

Standard accessories:

1. Resin sand castings	12. Processing oil flushing device
2. Ball screw (Taiwan Shangyin / Yintai) R-32-C3 level mute	13. Electric lubrication system
3. Spindle (Taiwan) straight knot type BT30 100-12000rpm* (optional 20000rpm)	14. Fully enclosed outer casing
4. Knife cylinder (made in Taiwan)	15. Cooling oil recovery tank car and iron filing tray
5. Three-axis rail (Taiwan Shangyin / Yintai)	16. Adjust the horn + screw
6. Bearing (OID Extra Japan, NSK)	17. Tools, file boxes
7. X. Y. Z axis stainless steel protective cover (made in Taiwan)	18. 1 luxury quartz lamp
8. Siemens system	19. 14 clip arm magazine
9. Three-axis servo motor (Japan Yaskawa / FANUC / Mitsubishi)	20. Chain plate chip conveyor (optional)
10. Host electrical appliances (Schneider. Germany)	21. The fourth axis (optional)
11. Processing air blowing device	22. Cradle five axes (optional)