



Moving stroke

X-axis (left and right stroke of worktable) travel: 1200 mm

Y-axis (front and rear travel of worktable) travel: 700 mm

Z axis (spindle head down stroke) travel: 700mm

Spindle Center distance to machine column chute surface distance: 682mm

Spindle nose to the table distance: 150-800mm

Work surface to ground distance: 850mm

Specifications

Table size : 600 * 1380mm

Number of T-slots: 5

T-slot width: 18mm

Table maximum load : 900kg

Spindle speed series: inorganic speed

Spindle speed range: 60-8000rpm

Main shaft taper hole: BT 40

Machine accuracy standards

JB / T 8771.2-1998 geometric precision inspection of vertical machining centers

JB / T 8771.4-1998 machining center linear positioning accuracy and repeat positioning accuracy test

JB / T 8771.7-1998 precision testing of finishing machining center

JB / T 8801-1998 machining center technical conditions

Positioning accuracy: ± 0.005 / 300mm repeat positioning accuracy: ± 0.003 / 300mm

Spindle drive system

Spindle motor power (stepless speed regulation): 11KW

Spindle lubrication: imported high-grade grease lubrication, fully enclosed, maintenance-free

Taiwan high-speed high-precision spindle

Feed system

X/Y / Z axis fast moving speed: 30/30/20m/min (X / Y axis is 45 linear guide, Z axis is sliding guide)

Cutting feed rate: 1~8000mm

Manual feed rate: 0 ~ 2000mm

Ball screw (diameter $\times$ pitch) $\phi 40 \times 10$ mm (X, Y, Z)

Minimum setting with moving unit: 0.001 mm

Automatic tool change part (optional)

Automatic tool change: hat type / disc type (optional Cam arm tool change)

Tool selection method: two-way arbitrary

Magazine capacity: 24 (Cam arm changer 24/32/40)

Tool max weight: 10kg

Tool type : BT-40

Tool maximum diameter: $\phi 100$ (full knife state) $\phi 160$ (frontier knife state)

Automatic tool change time: 7-8S /3-4s (manipulator)

Machine structure

The overall balance of the machine design for a comprehensive consideration, the main structure of the machine using the box and wide base, "people" shaped column structure design. Base, column, saddle, headstock, table and other main casting materials are used to optimize the quality, high tension of the resin sand casting, stable organization, small amount of deformation, can withstand high tensile strength of tension and load. By tempering treatment and vibration natural aging treatment to eliminate stress, can maintain precise displacement and positioning. For the whole machine for testing and analysis of vibration source, stress distribution, temperature rise reaction, structural displacement, etc., to ensure that the design improvement to the best condition.

8000rpm high-speed high-precision spindle spindle, hole taper#40.

X, Y-axis guide selection of Taiwan famous brand ball linear guide, action sensitive and higher precision.

Z-axis guide sliding surface are high-frequency quenching treatment, and then by the fine grinding, all with fluorine resin TURCITE-B, and every place are subject to fully lubricated veneer, high processing stability.

The three-axis ball screw adopts imported high-precision double-nut ball guide rod direct transmission and applies proper pre-pull design.

Machine protection

Machine guards are safe, complete and reliable

Meet GB15760-1995 " Metal Cutting Machine Safety general technical spare parts»

Machine noise: in line with national standards<75db

Electric cabinet cooling with cold heat exchanger cooling, sealed dustproof, dustproof grade IP65

Lubrication system

Automatic lubrication device, the sliding surface and ball screw for mandatory lubrication, oiling time interval and oiling adjustable lubricant selection T68 rail lubricants

Cooling system

Cooling system volume 260L

Cooling pump, motor power 2.1 HP, flow 40L/min

Cutting cooling for Vientiane nozzle spray coolant

Pneumatic system

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

Electrical system

Meet the GB / T5226. 1-1996 "industrial machinery and electrical equipment first part: general technical conditions" standard.

The system has a perfect and reliable chain, safety protection and fault self-diagnosis alarm function

Equipped with RS232 standard communication interface, can be used to store the program calculator diskette

Other systems can be selected according to user requirements

Machine accessories and purchased parts

Machine accessories and purchased parts are selected domestic and foreign high-quality brand (see the list of purchased parts)

Three-color warning light

Red light: display alarm

Yellow light: shows the end of the program

Green light: shows that the program is running

Machine power supply

Supply voltage range: AC three-phase 380V $\pm$ 10%

Power supply frequency: 50Hz $\pm$ 1% three-phase

Total machine power: 32KVA

Normal operating temperature

Ambient temperature : 0 ~ 40°C

Humidity: $\leq$ 5%

Air medium: non-corrosive medium light: adequate, well ventilated

Machine weight

Machine weight: 7500Kg