



shandong lu young machinery co.,ltd
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Custom Made TCK56 750mm Slant Bed CNC Lathe Machine for High Precision Production in Manufacturing

Our Product Introduction

Basic Information

- Place of Origin: Shandong, China
- Brand Name: luyoung
- Certification: CE
- Model Number: tck56
- Minimum Order Quantity: 1
- Price: \$35000-\$40000
- Packaging Details: non-fumigation wooden box
- Delivery Time: 45 working days
- Payment Terms: T/T
- Supply Ability: 100sets



Product Specification

- Structure: Slant Bed Lathe
- X Travel: 560mm
- Max Swing Diameter: 650mm
- Condition: New
- Spindle Nose: A2-6
- Spindle Head Connection: C6
- Package: Export Standard Wooden Case
- Dimension: 2920*1680*2070mm
- Function: Machining Metal
- Cnc Power: Three-phase 380V 50Hz
- Repeatability Accuracy: $\pm 0.003\text{mm}$
- Over Bed: 650mm
- Key Selling Points: High Safety Level
- Chuck Size: 10 Inch

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Product Description

| Specifications | Units | TCK56x750 |
|---|--------|-----------------------------|
| Max.swing over bed | mm | 560 |
| Max. Swing over cross slide | mm | ---- |
| Max. Processing length | mm | 750 |
| Cross slide length | mm | 1000 |
| Lathe bed stracture | | 45° integral inclined lathe |
| Distance between cross slide and spindle axis | mm | ---- |
| Spindle nose | | A2-6 |
| Spindle (C axis)speed range | R/min | 50-3500 |
| Spindle bore | mm | 66mm |
| Bar capacity | mm | 75mm |
| Spindle (C Axis)motor | kw | 11 |
| Milling head | | 12 station driven turret |
| Milling head power | kw | 2.3 |
| Milling head speed | R/min | 6000 |
| X axis travel | mm | 340 |
| Z axis trave | mm | 1000 |
| Y axis trave | mm | 100 |
| Turret type | | 12 station driven turret |
| X rapid traverse | Mm/min | 24000 |
| Z rapid traverse | Mm/min | 24000 |
| Y rapid traverse | Mm/min | 15000 |
| X/Z axis positioning accuracy | mm | 0.006 |
| X/Z axis repositioning accuracy | mm | 0.015 |
| Spindle (C axis)dividing positioning accuracy | mm | 0.02"(70 arc-seond) |
| Spindle (C axis)dividing repositioning accuracy | mm | 0.006"(20 arc-seond) |
| Machine dimension(LxWxH) | mm | 3400x2060x2100 |
| Net weight | Kg | 4200/4500 |

Product Feature

Standard configuration:

- 1) GSK980TB3 controller;
- 2) 8 stations electric tool post;
- 3) Linear guideways;
- 4) With hydraulic tail stock;
- 5) 8"hydraulic chuck;
- 6) Cooling system;
- 7) Lighten system;
- 8) Automatic lubrication system;

Optional configuration:

- 1) CNC system: Siemens, Fanuc, etc.
- 2) Hydraulic chuck, hydraulic tailstock .
- 3) 10-station hydraulic turret;
- 4) Living tools
 - 4 in end+4 in side
 - 3 in end+3 in side
 - 3 in end +2 in side
 - 4 in end
 - 3 in side
- 5)Automatic Chip conveyor;



Product Description

The main features of the CNC inclined bed lathe TCK56 are as follows:

High rigidity and stability: The TCK56 series multi-functional CNC lathe features a box-shaped structure and a bed made of tough cast iron (HT-300), which is cast by one-piece molding technology. Therefore, it has the characteristics of strong overall rigidity, good accuracy retention of the machine tool, and high reliability in use.

High-efficiency processing capacity: The slant-bed CNC lathe has a small spindle traction torque and a high spindle speed. Most slant-bed CNC lathes have cast iron beds that can maintain a 45-degree or 60-degree slant bed. The slant bed CNC lathe can process the inner and outer circles, steps, conical surfaces, spherical surfaces, grooves, various threads and complex curved surfaces of ordinary parts. It is also very proficient in the rough and finish machining of various high-temperature alloys, titanium alloys, heat-resistant alloys, stainless steel, cast iron, cast steel and other castings and forgings.

Convenient operation and chip removal: The TCK56 series multi-functional CNC lathe adopts a 12-position hydraulic tool rest, and the tool seat can be interchanged at various positions of the tool head. The tool changing speed is fast (the adjacent tool changing time is 0.25 seconds). The repetitive positioning accuracy of the tool rest rotation is 0.003mm. The X-axis and Z-axis guides of the slant-bed CNC lathe are linear guides. Full-travel straightness correction ensures the motion accuracy and good precision retention of the slant-bed CNC lathe.

Automated production capacity: The slant-bed CNC lathe can be equipped with a hydraulic chuck and tailstock to achieve automatic loading and unloading. The system and functional components can be selected and clamped at one time to achieve turning and milling functions. The slant-bed CNC lathe, in combination with an industrial manipulator, can complete all cutting processes and automatic chip removal in a relatively short time with a single clamping for automatic loading and unloading. It has become an automatic CNC lathe with extremely high working efficiency.

In conclusion, the TCK56 CNC slant-bed lathe has been widely applied in the manufacturing industry due to its high rigidity, efficient processing capacity, convenient operation and chip removal, as well as its automated production capabilities.



shandong lu young machinery co.,ltd



86 18660852746



sales@luyoungmachinery.com



luyoungcncmachines.com

Room 1061, Building A, Guoshan Center, Taiqian Street, Taishan District, Taian City, Shandong Province

