

TCK56 High Precision Metal Slant Cnc Lathe Machine 750mm1000mm 1500mm

Basic Information

- Place of Origin: Shandong, China
- Brand Name: luyoung
- Model Number: tck56
- Minimum Order Quantity: 1
- Price: \$20000-\$35000/sets ≥ 1 sets
- Packaging Details: Fumigation-free plywood
- Delivery Time: 30 working days
- Payment Terms: T/T, L/C
- Supply Ability: 100sets



Product Specification

- Type: Horizontal
- Max. Length Of Workpiece (mm): 750/1000/1500mm
- Structure: Slant Bed Lathe
- Machining Capacity: Medium Duty
- No. Of Spindles: Single
- Number Of Axes: 2/3/4/5
- Positioning Accuracy (mm): ± 0.006
- Repeatability (X/Y/Z) (mm): ± 0.015
- Dimension(L*W*H): 3650x2060x2100mm
- Voltage: 380v 3 Phase
- CNC Control System: GSK/Siemens/Fanuc
- Tool Post Stations: 12
- Warranty: 1 Year
- Key Selling Points: High Safety Level



Product Description

TCK56 China high precision metal slant cnc lathe machine 750mm1000mm 1500mm



Specification of TCK56 China high precision metal slant cnc lathe machine 750mm1000mm 1500mm

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|-------------------------|--|-------------------------|
| Item | Model | TCK56*750(with Y axis) |
| Working Range | Max. swing diameter over bed(mm) | Φ650 |
| | Max. cutting diameter(mm) | Φ540 |
| | Max.cutting length(mm) | 540 |
| Machine travel and feed | X axis travel(mm) | 280 |
| | Z axis travel(mm) | 750/1000 |
| | X/Z axis movement speed(mm/min) | 24000 |
| | Handwheel(mm) | 0.001/0.01/0.1 |
| | X,Z axis feed speed(mm/min) | 0~5000 |
| | X,Z axis manual feed speed(mm/min) | 0~1260 |
| | | |
| Accuracy | X/Z axis repositioning accuracy(mm) | 0.005/0.006 |
| | X/Z axis positional accuracy(mm) | 0.01/0.015 |
| | C axis accuracy (°) | 0.01 |
| Spindle | Max spindle speed (rpm) | 3500 |
| | Max. spindle torque (N.m) | 72 |
| | Spindle taper | A2-6 |
| | Spindle bore (mm) | Φ66 |
| | Bar through-hole(mm) | Φ52 |
| | hydraulic chuck | 10" |
| Turret | Turret type | living turret |
| | Number of tool holder | 12 |
| | Y axis travel(mm) | 100 |
| | Y-axis positioning accuracy(mm) | 0.01 |
| | repeated positioning accuracy(mm) | 0.008 |
| | Tool mounting dimension(mm) | 25×25 |
| | Boring tool holder mounting diameter(mm) | Φ32 |
| | Living tools speed (rpm) | 6000 |
| Tailstock | Tailstock travel (mm) | 480 |
| | Center taper | MT-5# |
| Main motor | Main motor power(kW) | 11 |
| | Main motor torque (N.m) | 72 |

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|----------------------|----------------------------------|----------------------|
| X, Z axis feed motor | X/Z axis feed motor Power (kw) | 2.3 |
| | X/Z axis feed motor torque (N.m) | 15 |
| Cooling system | Coolant capacity (L) | 200 |
| | Motor type (1HP) (kw) | 0.18 |
| Dimensions(mm) | L×W×H(mm) | 3400/3600/×2060×2100 |
| Weight | Machine weight (kg) | 4200/4500 |

Product Description

The TCK56 China high precision metal slant cnc lathe machine 750mm1000mm 1500mm features a bed constructed with a box-shaped structure made from high-strength cast iron (HT-300). It utilizes one-piece casting technology, and high-precision machining centers complete the machining in one setup. As a result, it possesses strong overall rigidity, excellent machine accuracy retention, and high reliability.

Bed Structure

The bed adopts a high-rigidity 30-degree slant bed design, which facilitates easy chip removal. It is equipped with a separate coolant tank that completely prevents leaks and is easy to maintain.

Tool Holder

The FCK56 series multifunctional CNC lathe uses a 12-station servo hydraulic tool holder (with an optional powered turret). The tool holders can be interchanged at various positions on the turret. Tool change speed is rapid, with an adjacent tool change time of just 0.25 seconds. The tool holder's rotational repeatability is maintained at 0.003 mm.

Spindle

The FCK56 series multifunctional CNC lathe features a high-rigidity spindle unit structure. The spindle has a closed oil grease lubrication system to ensure smooth and stable operation at high speeds. The spindle motor is an AC servo motor with stepless speed control, providing 11 kW of power, high torque output across a wide range, and significant torque at low speeds, making it suitable for heavy cutting. The spindle box employs a gearless structure, significantly reducing noise and vibration. It uses a hydraulic chuck (optional solid center) and a high-speed oil cylinder, equipped with a foot switch for convenient and safe workpiece clamping.

X and Z Axis Drive

The X4010 and Z4010 axes are driven by Taiwan's Hiwin large-diameter, high-precision (C3 grade) linear guides, which are pre-loaded. The X and Z axes use Taiwan's Hiwin roller linear rails (P-grade RG45), which have strong load-bearing capabilities. A ball screw linear rail lubrication system provides forced lubrication throughout the entire process, minimizing friction and featuring stainless steel protective covers. Both X and Z axes are equipped with servo motors; the X-axis motor has a torque of 10 N·m, while the Z-axis motor has a torque of 15 N·m.

Tailstock

The machine features a standard hydraulic tailstock, with movement driven by a hydraulic cylinder (a programmable tailstock driven by a servo motor screw mechanism is available as an option). The tailstock guide rails are made from high-precision Taiwanese components to ensure optimal feed accuracy and rigidity.

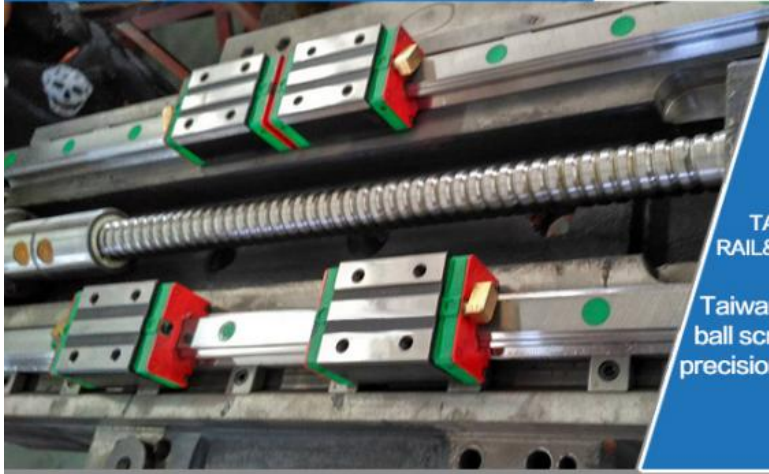
Hydraulic System

The machine's hydraulic system utilizes imported components to control a variable pump system, ensuring energy efficiency.

Lubrication System

A centralized lubrication system provides automatic forced lubrication for the ball screws and linear rails, ensuring the machine maintains rapid movement capabilities and high positioning accuracy. This translation retains the technical details and specifications of the original text while ensuring clarity in English.





01

TAIWAN LINEAR
RAIL&BALL SCREW

Taiwan linear rail &
ball screw with high
precision and speed.

02

HYDRAULIC
COLLET

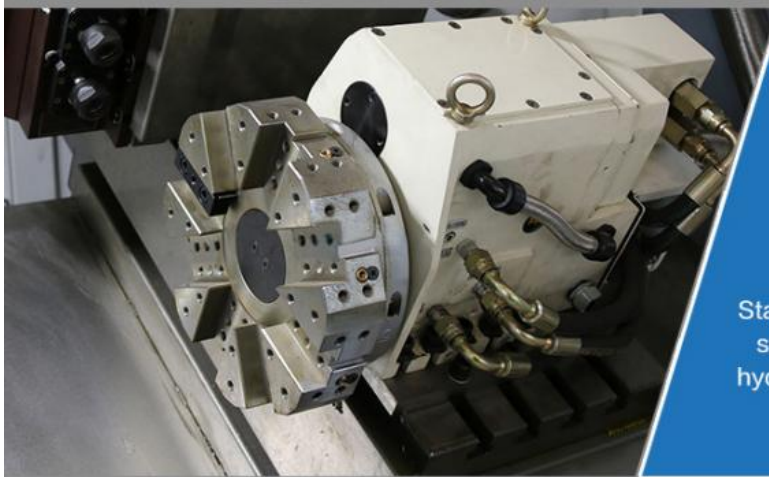
Standard with
hydraulic collet .
Hydraulic chuck
is optional ,need
extra cost .



03

HYDRAULIC
TURRET

Standard with 8
station Taiwan
hydraulic turret.



FAQ:

1.Does the TCK56 China high precision metal slant cnc lathe machine 750mm1000mm 1500mm can be customized?

Of course, if our standard configuration can not meet your needs, please tell us that we redesign and produce the machine to meet your needs

2.How long is the warranty period of the TCK56 China high precision metal slant cnc lathe machine 750mm1000mm 1500mm ?

Warranty period is one year, if parts damage within one year, we will send free of charge. Free online training or factory training to ensure that you can use our products properly. We can offer overseas paid installation, commissioning service.

3.What time is your work time?

We work online 24 hours a day, offer quotes and technical support at any time.

4.How to get a quote?

Please tell us the model you need or send us drawings of the workpiece, then we can recommend the most suitable products to you. We will give you the best offer within 24 hours.

5.How to contact with you?

My mobile/whatsapp: +86 18660853235; QQ:3494630853 ;Please send message to us, thanks in advance!



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