

High Precision Slant Bed Lathe 1000mm TCK56 CNC Turning Center With Hydraulic Steady Rest

Our Product Introduction

for more products please visit us on luyoungcncmachines.com

Basic Information

- Place of Origin: Shandong, China
- Brand Name: luyoung
- Model Number: tck56
- Minimum Order Quantity: 1
- Price: \$35,000.00/sets >=1 sets
- Packaging Details: Fumigation-free plywood
- Delivery Time: 45 working days
- Payment Terms: T/T, L/C
- Supply Ability: 100sets

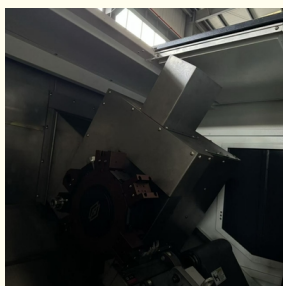


Product Specification

- Type: Horizontal
- Max. Length Of Workpiece (mm): 500
- Structure: Slant Bed Lathe
- Machining Capacity: Medium Duty
- Max. Weight Of Workpiece(kg): 200
- Width Of Bed (mm): 600 Mm
- No. Of Spindles: Single
- Number Of Axes: 2
- Travel (X Axis)(mm): 280 Mm
- Travel (Z Axis)(mm): 1000mm
- Positioning Accuracy (mm): ± 0.006
- Repeatability (X/Y/Z) (mm): ± 0.015
- Dimension(L*W*H): 3650x2060x2100mm
- Voltage: 380V 3 Phase



More Images



Product Description

High Precision Custom Made 1000mm TCK56 turning center

Product Description

The FCK56 series multifunctional CNC lathe 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.

Specification of **High Precision Custom Made tck56 750mm CNC Machining/Machined Aluminum/Steel/brass Parts OEM & ODM Service hydraulic chuck**

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 structure		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-second)
Spindle (C axis)dividing repositioning accuracy	mm	0.006''(20 arc-second)
Machine dimension(LxWxH)	mm	3400x2060x2100
Net weight	Kg	4200/4500

Other optional configuration of turret

Optional configuration



8station living turret



12station hydraulic turret



12station living turret



3+3 living tool



4+4 living tools



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