

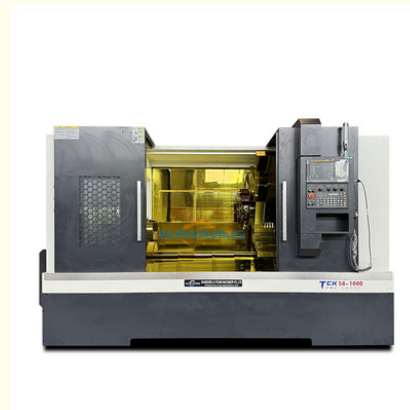
## Higher Accuracy Cnc Turning Center TCK56 1000mm Slant Bed Machine

Our Product Introduction

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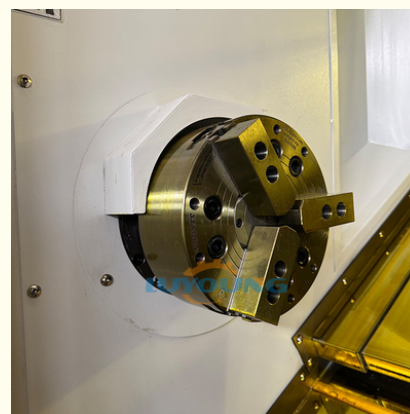
### Basic Information

- 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: L/C, T/T
- Supply Ability: 100sets

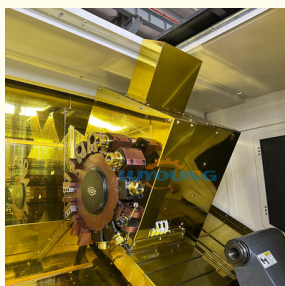


### Product Specification

- Structure: Slant Bed Lathe
- Max. Weight Of Workpiece(kg): 200
- Width Of Bed (mm): 600 Mm
- Travel (X Axis)(mm): 280 Mm
- Travel (Z Axis)(mm): 1000 Mm
- Positioning Accuracy (mm):  $\pm 0.006$
- Repeatability (X/Y/Z) (mm):  $\pm 0.015$
- Tool Post Stations: 12
- Warranty: 1 Year
- Spindle Speed Ranges: 3000~4000rpm
- Spindle Bore: 66mm
- Spindle Taper: A2-6



### More Images



## Product Description

### Specification of High Precision Custom Made tck56 750mm

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

Hydraulic servo turret, vdi turret

#### Live Tool Turret (Core Component):

**Mounted on the spindle** (typically with interfaces like BMT, VDI, etc.), capable of holding multiple tools.

**Key Feature:** The turret can not only perform **turning operations** (radial), but more importantly, it **features built-in drive power** (driven by a servo motor), allowing it to mount **rotating tools** (milling cutters, drills, taps, etc.).

**Y-axis (Critical Feature):** The live tool turret typically incorporates **Y-axis functionality**. This means the rotating tools can move not only in the X (radial) and Z (axial) directions, but also in the **Y-axis** (vertical direction). This enables the machine to perform **off-center milling, drilling, tapping**, as well as more complex **2.5D or 3D contour milling**, significantly expanding its machining capabilities.

#### C-axis (Indexing/Contouring Control):

The main spindle (and sometimes the sub-spindle) is not only a rotating spindle but also a high-precision **numerically controlled rotary axis (C-axis)**.

##### Functions:

**Indexing Positioning:** Precisely rotates the spindle to a specific angle for milling or drilling operations (e.g., milling keyways, drilling holes distributed around a circumference).

**Contouring Control:** During complex contour milling, the C-axis can **interpolate** with the X, Y, and Z axes, enabling true **3-axis, 4-axis (X/Y/Z/C)**, or even **5-axis** (if equipped with a B-axis turret) **simultaneous machining**. This allows machining of **complex surfaces, cams, spiral grooves**, and similar features.



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