



TCK600-3000mm Slant Bed Machine High Precision And Long Turning Length

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Luyoung
- Certification: CE
- Model Number: TCK600
- Minimum Order Quantity: 1
- Price: USD69999-89999
- Packaging Details: Fumigation-free plywood
- Delivery Time: 45 working days
- Supply Ability: 100sets



Product Specification

- Tool Turret: 12 Station
- Bar Diameter: 80
- Core Components: Bearing, Gear
- Max Turning Length: 3000mm
- Key Words: Slant Bed CNC Lathe Machine
- Weight: 11000
- Spindle Motor Power: 11/15KW
- Repeatability Accuracy: $\pm 0.003\text{mm}$ $\pm 0.01\text{mm}$
- Key Selling Points: High-accuracy
- Tailstock Max Travel: 2800
- Axis Movement: X/Z Axis
- CNC Power: Three-phase 380V 50Hz
- Highlight: **Long Turning Length Slant Bed Machine,
High Precision Slant Bed Machine,
3000mm Slant Bed Machine**



China hot sales high quality tck600-3000mm slant bed machine inclined bed

Bed structure

1. Inclined bed design: The bed is inclined at 30° or 45°. It is made of high-quality cast iron resin sand molding and features a compact stiff-bone plate structure, which offers excellent rigidity and strong shock resistance

Cast iron base: It offers excellent rigidity and stability, and is convenient for operation and chip removal

2. High precision and high rigidity:

Linear guide rails and ball screws: The X/Z axes are directly connected to the precision pre-stretched ball screws through elastic couplings by servo motors, and high-rigidity and high-precision linear guide rails are adopted. A computerized automatic lubrication system is equipped to force lubricate the linear guide rails and ball screws.

Full-travel straightness correction: It ensures the motion accuracy and good precision retention of the slant-bed CNC lathe

3. Efficient processing:

Fast turning speed: It can accelerate production speed and is suitable for processing multiple varieties and medium to small batches. The spindle traction torque is small and the spindle speed is high: suitable for rough machining processes of various difficult-to-machine materials.

4. Versatility:

Multiple processing capabilities: It can process the inner and outer circles, steps, conical surfaces, spherical surfaces, grooves, various threads and complex curved surfaces of ordinary parts.

Servo spindle and power head: It can achieve 360-degree arbitrary division and positioning of the spindle, and has the functions of side end face drilling, tapping and milling. It can complete the processing of relatively complex parts in one clamping

5. Automation and Convenience:

Hydraulic station: It adopts Taiwan variable pumps, hydraulic motors, solenoid valves and is equipped with air-cooling devices, featuring low noise and low oil temperature.

Automatic loading and unloading: It can be optionally equipped with a hydraulic chuck and tailstock to achieve automatic loading and unloading. Combined with an industrial manipulator, it can complete all cutting processes and automatic chip removal in a relatively short time

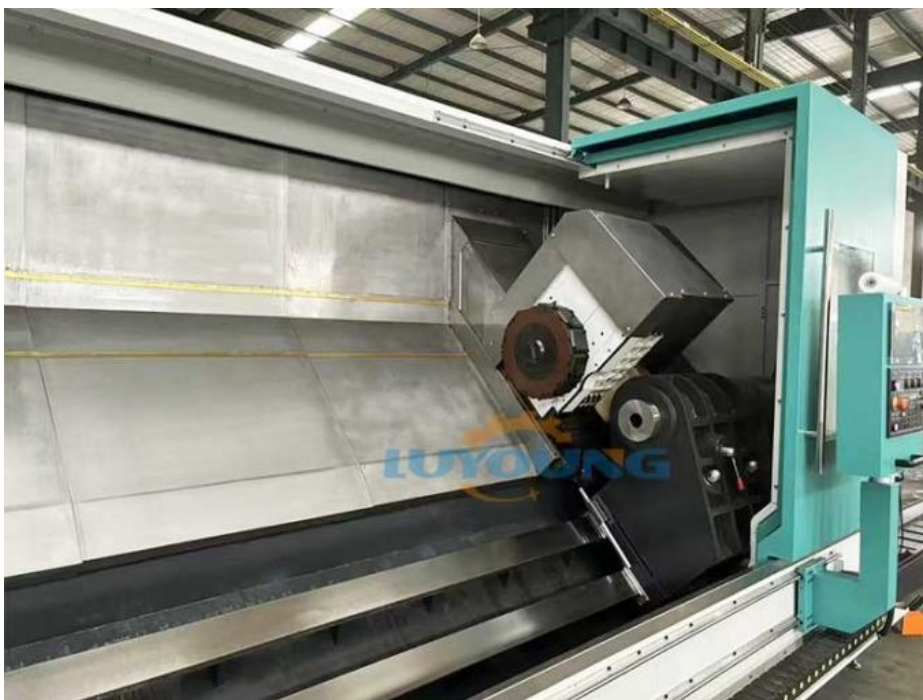
6. Strong bending torque:

Inclined bed design: The cross-sectional area of an inclined bed CNC lathe is larger than that of a flat bed CNC machine of the same specification, and it has strong bending torque resistance

Industry Applications: This machine is particularly suitable for industries such as IT, precision instruments, aerospace, military applications, etc., where there is a demand for complex and precise small to medium-sized rotating components

Technical specifications		TCK600
	(mm)	
	Max.swing dia over bed	Φ600
	(mm)	
	Max.cutting dia.	Φ320
	(mm)	
	Max.cutting length	3000
Spindle	(mm)	
	Max.cutting dia	Φ500
	X /Z (mm)	45/45
	X/Z axis width	
	(Kw)	
	Servo motor	15
	(mm)	
	Spindle bore	Φ86
	(mm)	
	Bar through-hole	Φ70
	Spindle taper	A2-8
	(r.p.m)	
Feeding system	Spindle speed	5-3000
	(X) (mm)	
	X axis travel	280
	(Z) (mm)	
	Y axis travel	3000
	* (X)mm	
	Ball screw diameter * Pitch(X)	Φ40X8
	(Z) (mm)	Φ63X12
	Longitudinal(Z)	
	(m/min)	
	X axis feed speed	18
	(mm/min) Z axis feed speed	18
	(mm/min)	
	X/Z manual feed speed	0.01 1000
	X	
	Z	±0.003mm
	X/Z reposition accuracy(mm)	±0.01mm
	Work piece machining accuracy	IT6 IT7

	Work piece surface roughness	$\leq Ra1.6\mu m$ Non-ferrous metals $\leq Ra1.6\mu m$
Tailstock	/ (mm)	$\Phi 100/180$
	Sleeve Dia/Travel	
	Sleeve taper (mm)	MT6#
Turret	Tail stock travel	2700
	Servo turret	SH160-8
	(mm) Tool mounting dimension	32×32/50





Note:

The spindle speeds listed in the table represent the range of speeds under standard configuration. When installing other configurations of chucks or tooling, or when replacing the main motor, please pay attention to the maximum allowable speed of the selected chuck or tooling.

The maximum torque of the machine listed in the table is constant torque; however, as the cutting diameter increases, the achievable cutting parameters will decrease. Therefore, please adjust the machining parameters according to the work piece size.

CNC

CNC system	KND	
PowerPoint	Power	Three-phase 380V 50Hz
	(KVA) Power consumption capacity	35
tsystem	(L) Water tank capacity	60
	W Cooling pump motor power	450
	L/min Cooling pump flow rate	50
	(**)(mm) Machine size	6300×2480×2400
Dia and weight	()KG Machine weight	12000