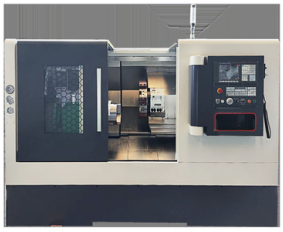
Turret Slant Bed CNC Lathe Machine 45 Degree Tck50 Hydraulic Chuck Servo

Our Product Introduction

Basic Information

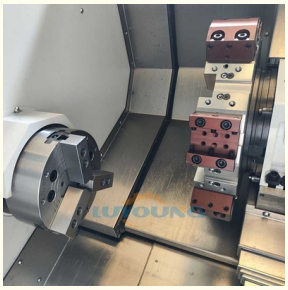
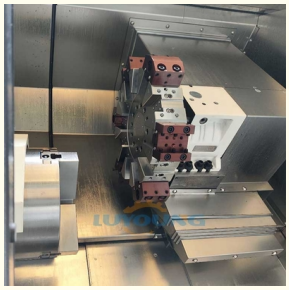
- Place of Origin: China
- Brand Name: Luyoung
- Certification: CE
- Model Number: TCK50
- Minimum Order Quantity: 1
- Price: USD16000-25000
- Packaging Details: Fumigation-free plywood
- Delivery Time: 45 working days
- Payment Terms: L/C, T/T
- Supply Ability: 100sets

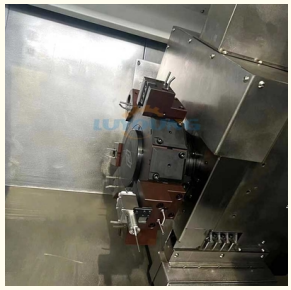


Product Specification

- Max Swing Over Bed Dia. mm : 550
- Max Cutting Dia. mm : 440
- Max Cutting Length(mm): 450
- Spindle Nose: A2-6
- Spindle Bore: 66
- Hollow Oil Chuck Through Hole Dia.(mm : 50
- Chuck: 8inch
- No.of Tool Holder: 12 Station Servo Turret
- L*W*H mm : 2697*1795*1860
- Machine Weight kg : 3600kg
- Highlight: **Turret Slant Bed CNC Lathe**, **Slant Bed CNC Lathe Machine 45 Degree**, **Slant Bed CNC Lathe Machine tck50**

More Images

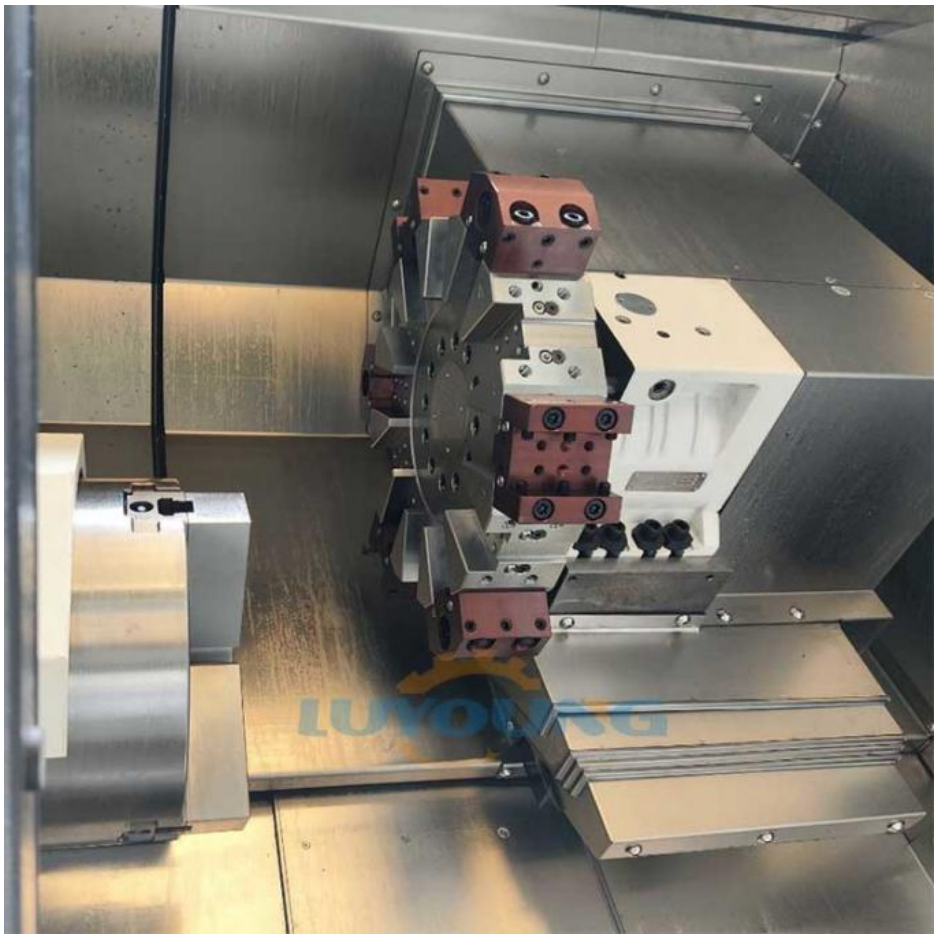



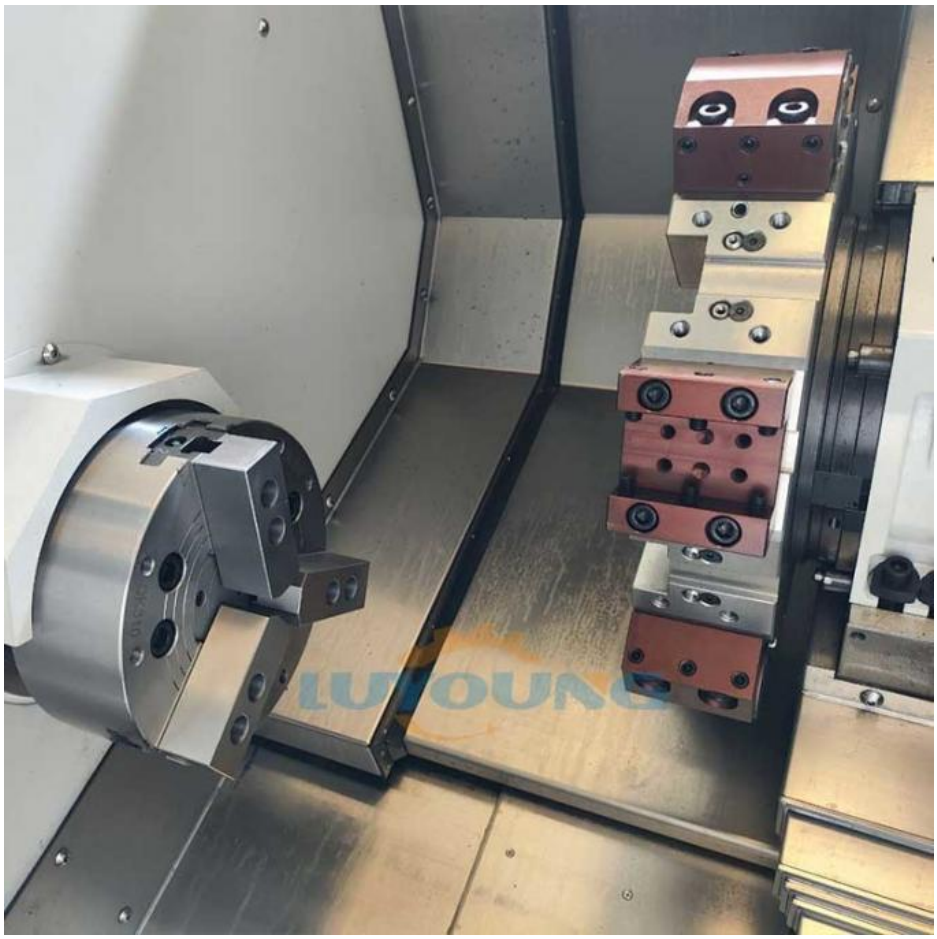


Our Product Introduction

Product Description

45 Degree inclined tck50 hydraulic chuck servo turret and driven turret slant bed machine





Item	Parameter	TCK50
Processing range	Max swing over bed Dia.(mm)	Φ550
	Max cutting Dia.(mm)	Φ440
	Max cutting length(mm)	Φ450
	The distance between two centers(mm)	500
Travel and feed	X axis travel(mm)	250
	Z axis travel(mm)	500
	X axis movement speed(mm/min)	24000
	Z axis movement speed(mm/min)	24000
	Hand wheel(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
positional accuracy	X axis repeated positioning accuracy(mm)	0.005
	X-axis positioning accuracy(mm)	0.01
	Z axis repeated positioning accuracy (mm)	0.006
	Z-axis positioning accuracy(mm)	0.015
Spindle	Spindle speed(rpm)	35-3000
	Max. spindle torque(N.m)	48
	Spindle nose	A2-6
	Spindle bore Dia(mm)	Φ66
	Hollow oil chuck through hole Dia.(mm)	Φ50

	Chuck	10”(12 optional)
Turret	No.of tool holder	12 station
	Tool change time(s)	0.25
	Tools size(mm)	25×25
	Boring tool size(mm)	Φ32
Tail stock	Tailstock travel(mm)	480
	taper of center	MT-5#
Main motor	Main motor(kw)	7.5(4500rpm)
	Main motor torque(N.m)	48
Feed motor	X axis feed motor power(kw)	2.3
	X-axis feeds motor torque(N.m)	15
	Z axis feed motor power(kw)	2.3
	Z-axis feeds motor torque(N.m)	15
cooling system	Coolant capacity(L)	200
	motor type(1HP)(kw)	0.18
Dimensions	L*W*H(mm)	2697*1795*1860
weight	Machine weight(kg)	3600

Features:

A slant-bed CNC lathe is a type of numerical control machine tool with the following key features:

Design Structure: The bed is inclined at an angle (usually 30 degrees, 45 degrees, or 60 degrees). This arrangement enhances the flow of cutting fluid, effectively removing chips and reducing heat buildup during machining, thereby improving work piece accuracy.

Stability and Rigidity: The slanted design enhances the machine's stability, as gravity aids in better adherence spindle housing to the guide rails during cutting, increasing the machine's rigidity and vibration resistance.

Maintenance of Precision: With better chip evacuation, the guide ways and worktable of a slant-bed lathe are less prone to wear from chips and coolant, helping maintain long-term machining precision.

Processing Capabilities: Equipped with advanced CNC systems, these lathes can handle complex parts and multi-axis machining tasks such as drilling, tapping, milling, and turning.

Efficiency: Due to their design and automation, slant-bed lathes allow for rapid tool changes and continuous machining, boosting productivity.

Ease of Operation: The tilted design makes it easier for operators to observe and access workpieces, improving efficiency and providing a better working environment.

Cost: While slant-bed lathes may have a slightly higher initial cost in terms of design and manufacturing compared to traditional flat-bed lathes, their increased machining precision and efficiency can lead to a higher return on investment over the long term.

Slant-bed lathes are commonly employed in precision part manufacturing for industries such as automotive, aerospace, medical devices, and precision machinery.

Standard configuration:

1. Gsk controller system
2. hydraulic hollow chuck
3. hydraulic tailstock
4. Taiwan linear guide way
8. hydraulic turret
9. high stength bed casting
10. lighting system
11. cooling system
12. auto lubrication system
13. Power distribution cabinet.

Optional configurations:

1.Siemens/fanuc controller system.
2. 12 station living turret with or without Y axis
3.Auto bar feeder
4. Chip conveyor
5.living tool holders
6.workpiece measure system
7. Tools measure system
8. workpiece catcher
9. raw material puller

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