

## 1000mm Cnc Metal Parts TCK56 Slant Bed Lathe Turning Center

Our Product Introduction

### Basic Information

- Place of Origin: China
- Brand Name: Luyoung
- Certification: CE
- Model Number: TCK56
- Minimum Order Quantity: 1
- Price: USD24000- USD50000
- Packaging Details: Fumigation-free plywood
- Delivery Time: 45 working days
- Payment Terms: L/C, T/T
- Supply Ability: 100sets



### Product Specification

- Highlight: TCK56 CNC Metal parts Lathe,  
Slant Bed CNC Metal parts Lathe,  
1000mm CNC Metal parts Lathe



for more products please visit us on [luyoungcncmachines.com](http://luyoungcncmachines.com)

## Product Description

1000mm cnc Metal parts TCK56 Slant Bed Lathe turning center



### Specifications:

Model	TCK40	TCK50	TCK56*750(Servo turret)	TCK56*750(with Y axis )
Max. swing diameter over bed(mm)	Φ450	Φ550	Φ560	Φ650
Max. cutting diameter(mm)	Φ120	Φ440	Φ540	Φ540
Max.cutting length(mm)	335	Φ450	580	540
X axis travel(mm)	900	250	280	280
Z axis travel(mm)	335	500	750/1000	750/1000
X/Z axis movement speed(mm/min)	24000	24000	24000	24000
Handwheel(mm)	0.001/0.01/0.1	0.001/0.01/0.1	0.001/0.01/0.1	0.001/0.01/0.1
X,Z axis feed speed(mm/min)	0~5000	0~5000	0~5000	0~5000
X,Z axis manual feed speed(mm/min)	0~1260	0~1260	0~1260	0~1260
X/Z axis repositioning accuracy(mm)	0.005/0.006	0.005/0.006	0.005/0.006	0.005/0.006
X/Z axis positional accuracy(mm)	0.01/0.015	0.01/0.015	0.01/0.015	0.01/0.015
Max spindle speed (rpm)	4,500	3500	3500	3500
Max. spindle torque (N.m)	35	48	72	72
Spindle taper	A2-5(optional A2-6)	A2-6	A2-6	A2-6
Spindle bore (mm)	Φ52	Φ66	Φ66	Φ66
Bar through-hole(mm)	Φ40	Φ50	Φ52	Φ52
hydraulic chuck	6" (Optional8")	10" (Optional2")	8" (Optional 10")	8" (Optional 10")
Turret type	Gang type tool holder	Hydraulic turret	Hydraulic turret	living turret
Number of tool holder	/	12	12	12
Tool change times(s)	/	0.25	0.25	0.25
Tool mounting dimension(mm)	20×20	25×25	25×25	25×25
Boring tool holder mounting diameter(mm)	Φ25	Φ32	Φ32	Φ32
Tailstock travel (mm)	/	480	480	480
Center taper	/	MT-5#	MT-5#	MT-5#

Main motor power(kW)	5.5	7.5	11	11
Main motor torque (N.m)	35	48	72	72
X/Z axis feed motor Power (kw)	1.5	2.3	2.3	2.3
X/Z axis feed motor torque (N.m)	6	15	15	15
Coolant capacity (L)	200	200	200	200
Motor type (1HP) (kw)	0.125	0.18	0.18	0.18
L×W×H(mm)	2100*1450*1850	2697*1795*1860	3400/3600/×2060×2100	3400/3600/×2060×2100
Machine weight (kg)	1600	3600	4200/4500	4200/4500

**Standard configuration:** GSK control system. hydraulic chuck, hydraulic tailstock, hydraulic turrer

**Optional configuration:** GSK988/Siemens/Fanuc/Syntec control system. 12 station driven turret, auto bar feeder, workpiece catcher, chain type chip conveyor

**Features:**

**Features of TCK56 Slant Bed CNC Lathe**

The TCK56 slant bed CNC lathe is designed with several notable features that enhance its performance and usability:

**1. Slant Bed Structure**

The machine features a 30° slant bed design, which provides better stability during cutting operations. This design allows for efficient chip removal and easy access for loading and unloading workpieces.

**2. High Rigidity and Strength**

Constructed from high-density cast iron, the bed offers excellent rigidity and vibration absorption. The internal rib structure is optimized using advanced design software, ensuring high stability during heavy cutting.

**3. Precision Guideways**

The TCK56 is equipped with precision linear guideways that reduce friction and increase load capacity. This results in improved feed accuracy and faster movement speeds, enhancing overall machining efficiency.

**4. Powerful Spindle**

The lathe features a high-performance spindle capable of delivering high speeds and torque, suitable for various machining tasks. The spindle design minimizes thermal deformation, maintaining precision during extended operations.

**5. Efficient Tool Change System**

It includes an 8-station turret that allows for quick and precise tool changes, reducing downtime. This feature is particularly beneficial for batch production, enhancing overall productivity.

**6. User-Friendly Control**

The TCK56 is designed with an ergonomic control panel and intuitive interfaces, making it easy to operate. Full enclosure protects operators from chips and coolant, ensuring a clean and safe working environment.

**7. Automatic Lubrication**

The lathe is equipped with a centralized lubrication system that ensures timely and precise lubrication of all critical components, enhancing reliability and longevity.

**Main Application Areas**

- Plumbing Equipment: Used for machining components such as valves and fittings in plumbing devices, ensuring precision and durability.
- Valve Manufacturing: Suitable for machining various types of valves, including ball valves and gate valves, meeting high precision requirements.
- Electrical Industry: Employed in the production of shaft and disc parts in electrical products, ensuring performance and safety.
- Instrument Manufacturing: Machining components for instruments, providing high precision and the ability to create complex shapes.
- Automotive Industry: Widely used for the production of automotive parts, such as engine components and drive shafts, enhancing production efficiency.
- Motorcycle Manufacturing: Suitable for machining various parts of motorcycles, meeting the demands for lightweight and

high strength.

Bearing Production: Used for manufacturing various types of bearings, ensuring smooth operation and wear resistance.

The TCK56 slant bed CNC lathe, with its high efficiency and multifunctionality, has become an indispensable piece of equipment in these industries, capable of turning various threads, arcs, cones, and the inner and outer surfaces of rotating bodies.

In summary, the TCK56 slant bed CNC lathe combines a robust design with advanced features, making it suitable for high-precision machining in various industries, including automotive and aerospace.



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