

750mm Metal Precision Mechanical Lathe Machine TCK56 Slant Bed Lathe

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Luyoung
- Certification: CE
- Model Number: TCK50
- 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: slant lathe, 750mm Mechanical Lathe Machine, TCK56 slant bed lathe



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Product Description

TCK56 750mm slant bed machine hydraulic chuck and tailstock chip conveyor



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 turret

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.

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.





86 18660852746



sales@luyoungmachinery.com



luyoungcncmachines.com

Room 1061, Building A, Guoshan Center, Taiqian Street, Taishan District, Taian City, Shandong Province