

Slant Bed CNC lathe

Model: TCK56A



Supplier: Shanghai ANTS Machine Equipment Co.,Ltd

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Technical proposal

Part 1: Technical parameter

| Specifications | | Unit | TCK56A |
|------------------------------------|-----------------|-------|--------------------|
| Max. Swing over Bed | | mm | φ560 |
| X guide rail span | | mm | 254 |
| Z guide rail span | | mm | 364 |
| Max. Swing over slide | | mm | φ300 |
| Center distance | | mm | 500 |
| Max. turning length | | mm | 500 |
| Top distance | From the bed | mm | 368 |
| | From the ground | mm | 1018 |
| Spindle through hole diameter | | mm | φ65 |
| Bar diameter | | mm | φ50 |
| Hollow chuck pull rod through hole | | mm | φ50 |
| Spindle end type | | | A2-6 |
| Chuck | | mm | Hydraulic φ200 |
| Spindle Taper Hole Taper | | No | Metric 70, 1: 20 |
| Spindle revolution range | | rpm | 0-4000 (Automatic) |
| Tailstock sleeve diameter | | mm | φ74 |
| Tailstock sleeve bore taper | | No | MT5# |
| Tailstock sleeve travel | | mm | 450 |
| Tailstock configuration | | | Hydraulic |
| Tool turret | | PC | 8 |
| Knife square size | | mm | 25×25(8 stations) |
| Screw model | X direction | mm | FDC3212-P3 |
| | Z direction | mm | FDC4012-P3 |
| X/Z rapid traverse speed | | m/min | 18/18 |
| X travel | | mm | 200 |
| Z travel | | mm | 560 |
| Min. setting unit | | mm | 0.001 |
| Main motor power | | KW | 11 (servo) |

| | | |
|--------------------|----|----------------|
| Total power | KW | 18 |
| Machine net weight | Kg | 4000 |
| Dimensions (L×W×H) | mm | 2950×1860×1850 |

Part 2 : Product reference picture**Part 3: Equipment Introductions****Product description**

The TCK56A High Precision CNC Turning Center Slant Bed CNC Lathe product is a semi-closed slant-bed turning and milling machine with X, Y, Z and C axes servo control. The structure and external dimensions are compact and reasonable. The spindle (C axis) is driven by a servo motor. It can realize the turning of the outer circle, the end surface and the thread of various materials, such as shafts and discs, and various surface milling and drilling in radial and axial directions, and is suitable for efficient machining of small parts.

Features

1. This series of machine tools is a mature product mainly exported by Shanghai ANTS Machine Equipment Co.,Ltd. The whole machine has compact structure, beautiful and pleasant appearance, large spindle torque, high rigidity, stable and reliable performance, and excellent precision retention.
2. High-speed, high-precision, high-rigidity shell-type spindle unit, servo spindle motor, can reach higher spindle speed. It is suitable for the turning processing of disk and shaft parts. It can process straight lines, arcs, metric and inch threads, and multi-start threads. It can be applied to the processing of disk and shaft parts with complex turning shapes and high precision requirements.
3. Adopt 45° overall inclined bed structure, equipped with high-precision preload Taiwan linear rolling guide rail, the machine tool has high position accuracy, smooth chip removal, and is suitable for high-speed and high-precision machining.
4. The CNC system adopts GSK988T system, famous ball screw and high precision screw bearing.

5. The spindle adopts high-precision spindle bearing group and has been precision assembled and dynamically balanced to ensure high precision, low noise and strong rigidity of the spindle.
6. Each lubricating point adopts a forced automatic lubricating device to lubricate the screw and guide rail at fixed points and quantitatively. When there is an abnormal state or the oil is insufficient, a warning signal will be automatically generated.
7. The standard configuration adopts domestic three-jaw self-centering hydraulic chuck.
8. The guide rail is equipped with a stainless steel protection device to prevent the guide rail from being corroded by iron filings and coolant, and to facilitate the cleaning of iron filings.

Part 4: Standard Equipment

Standard Equipment:

| Name | Specifications | Quantity | Supplier |
|------------------------------|---|----------|----------|
| Control System | GSK 988T | 1 set | GSK |
| Spindle structure | Variable speed | 1 set | China |
| Screw bearing | X direction: 25TAC62BDFC10PN7 Z direction: 30TAC62BDFC10PN7 | 1 set | NSK |
| Spindle motor | 11 KW Servo | 1 set | GSK |
| Ball screw | X direction: 32-12T5-2FSDC-443-625 Z direction: 40-12T5-2FSDC-870-1052 | 1 set | China |
| Line track | X direction: HGH35CA2R600ZBP Z direction: HGH35CA2R1080ZBP Tailstock: HGH35CA2R920ZBP | 1 set | China |
| Knife holder | TX-160A-8T | 1 set | China |
| Automatic lubrication device | HR-3 | 1 set | China |
| Three-jaw hydraulic chuck | K11200/A2-6 | 1 set | China |
| Cooling pump | P=250W | 1 set | China |

Part 5 :Manufacturing Time

Around 35-60 calender days, The machine will be ready for FAT(Factory Acceptance Test) after received deposit and after confirmed contract and technical proposal.

Remark: If the customer has special requirements for the delivery time, please confirm with Shanghai ANTSHI

Part 6 : Acceptance Test

| Test items | | Standard tolerance (mm) |
|--|-------------------------------|-------------------------|
| Periodic axial play of the main shaft | | 0.005 |
| Radial run-out of spindle chuck positioning cone | | 0.005 |
| Position accuracy | Repeat positioning accuracy A | ±0.005 |
| Diameter uniformity | | 0.01/150 |
| Flatness | | 0.025/φ300 |
| Thread pitch product error | | 0.010/100 |
| Surface roughness | | Ra1.6μm |

Part 7 : Quality Assurance & After-sales Service

Shanghai ANTS Machine Equipment Co., Ltd. fully fulfills the terms of machine tool technical services promised to users.

1. Since the final acceptance of the machine tool, all failures caused by quality problems will be guaranteed for one year free of charge.
2. Since the final acceptance of the machine tool, the failure of other parts caused by quality problems will be guaranteed for one year free of charge.
3. Since the final acceptance of the machine tool, we also guarantee to actively cooperate with the user to repair the failure caused by the quality of the machine tool, and free labor costs within one year.
4. Lifetime guarantee to provide spare parts supply at preferential prices.

Warranty service:

one year warranty(12 months since customer receive & use the machine).

The manufacturer guarantees to provide life-long paid maintenance services for the product.

Part 8: Packing & Shipping Terms**1. Provide the following technical documents when the equipment is delivered**

Packing list 1 copy

Factory qualified certificate 1 copy

Operation manual 1 copy

Circuit system schematic diagram 1 copy

2. Packaging and transportation

Exporting standard wood box packing

The transportation is carried out in accordance with the contract terms.

Part 9: Company Introduction

Shanghai ANTS Machine Company is mainly engaged in Universal lathe, CNC lathe, Heavy duty lathe, Special purpose lathe, Sawing machine, Drilling machine, Milling Machine, VMC(Vertical Machining Centre), HLC(Horizontal Machining Centre), Gantry Machining Centre and other equipment. The products are sold to Hebei, Shaanxi, Hunan, Henan, Jiangsu, Shandong, Guangdong, Shanghai and other places. More than 300 professional after-sales service personnel in 83 offices across the country provide customers with pr-sales and after-sales services at any time. The products are deeply trusted by customers and are exported to more than 20 countries and regions such as the United States, Germany, Italy, India, Thailand, and Russia. Especially in recent years, they have been widely used in major domestic well-known enterprises such as China National Heavy Duty Truck, Ministry of Aeronautics and Space, Zhongyuan Special Steel, Zhengmei Machinery, Shanghai Heavy Industry, Wuhan Iron and Steel, Anshan Iron and Steel and Sany Heavy Industry have the characteristics of rich experience, excellent.

Factory Pictures



ISO 14001 Environment
Management System

ISO 9001 Quality
Management System

European CE
Certificate



Part 10: Quotation & Transaction Terms.

QUOTATION SHEET

CURRENCY UNIT : USD

Date: July 23th, 2023

| Machine Type | Equipment Model | Technical Parameter | PRICE in USD (EXW Factory) |
|--------------|-----------------|---------------------|-------------------------------|
| CNC Lathe | TCK56A | GSK CNC SYSTEM | 52350 USD/set |

* The sea freight cost fluctuate everyday due to the global shipping situation, The final confirmed price can be checked when the machine is about to ship.

Remarks :

- Origin:** The People’s Republic of China
- Delivery Time:** 45-60 Days ready for the factory acceptance test.
- Payment terms:** 30% payment in advance for deposit, 70% balance after the pre-acceptance test before shipment
- Package:** Exporting standard Wooden Box Package
- Validity:** 30 Days. (The buyer has to re-check with seller if the quotation validity is expired)

