

Slant Bed CNC Lathe

Model: TCK46A



(the picture for reference only)

Prepared by XXXX

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Supplier: Shanghai ANTS Machine Equipment Co.,Ltd

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Technical proposal

Part 1: Technical parameter

Specifications	Unit	TCK46A	
Capacity			
Max.workpiece swing diameter	mm	460	
Max. turning diameter	mm	420	
Max. turning length	mm	500	
Chuck size	-	8''	
Axis travel			
Slide travel(X)	mm	240	
Slide travel(Z)	mm	540	
Rapid feed (X)	mm/min	20000	
Rapid feed (Z)	mm/min	20000	
Spindle			
Spindle speed	R/min	3500	
Spindle speed range	-	stepless	
Spindle nose	-	A2-5	
Bar capacity	mm	56	
Hole through draw tube	mm	45	
Tool Turret			
Type of turret head	-	Servo turret	
Disc diameter	mm	300	
Number of tool stations	pcs	8 station	
Tool size(square shank)	mm	25	
Tool size (round shank)	mm	32	
Number of cutting tools	pcs	4(2squar 2 round)	
Machine tool precision			
Accuracy of position	x-axis	mm	0.01
	Z-axis	mm	0.01
Repeatability	x-axis	mm	0.005

	z-axis	mm	0.005
Bed structure and transmission			
Tilt angle of machine tool		°	30
Guideway type		-	Linear guide rail
X axis Rail width		mm	35
Z axis Rail width		mm	35
X axis ball screw		-	3210
Z axis ball screw		-	4012
Tail stock			
Tail stock		-	Hydraulic
Sleeve diameter		mm	70
Sleeve travel		mm	80
Sleeve taper		-	MT5
Tail seat movement form		-	Manual
CNC system			
CNC system		-	GSK988TA (Standard)
X axis motor torque		nm	7.5
Z axis motor torque		nm	7.5
Spindle motor power		kw	7.5
Other information			
Lubrication pump		L	32K(3L)
Cooling pump		W	450
Machine voltage		-	380V/50HZ
Power supply		KVA	14
Machine overall dimensions		mm	2700*2170*2000
Machine weight		kg	3100

Part 2 : Product reference picture



Remark: The photos are for reference only. The actual machine shall be subject to the configuration selected by the customer.

● **Shipping display:**




<https://www.antsmachine.com/antishi-machine-equipment-company-successfully-exported-a-tck46a-slant-bed-type-cnc-lathe-machine-to-kazakhstan-client.html>

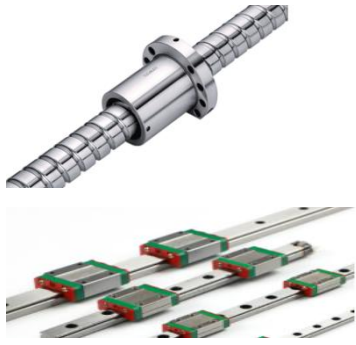
Part 3: Equipment Introductions

Product description

1. This series of machine tools is the mature product of the company. The whole machine has compact structure, beautiful and pleasant appearance, large spindle torque, high rigidity, stable and reliable performance, and excellent precision retention.
2. Adopt 30° or 45° overall inclined bed body structure, equipped with high-precision preload Taiwan straight roller guide rail, the machine tool has high position accuracy, smooth dust discharge, suitable for high-speed and high-precision processing.
3. Using high precision spindle unit and spindle box precision assembly.

Features

	<p>Spindle description: Adopt high precision spindle bearing group with precision assembly and dynamic balance test to ensure the spindle with high precision, low noise and strong rigidity.</p>
	<p>Tool Turret description: Standard is 8 station servo turret, choose the knife tower mode, change the knife speed is fast, high positioning accuracy. Commonly used for the hydraulic knife tower and servo knife tower, can also choose the power knife</p>
	<p>Chuck description: Wedge through hole chuck, quickly clamp and loosen the workpiece under the action of hydraulic pressure, clamp speed is fast, high precision.</p>

	<p>Transmission description: The screw and nut are processed, ground, assembled and quality pipe in the constant temperature workshop to ensure their high</p>
	<p>Tailstock description: The hydraulic tailstock is processed by manual (or hydraulic) adjustment, manual (or hydraulic) locking, and the hydraulic piston presses the workpiece.</p>
	<p>Machine lubrication description: RBCLB-3ZK type positive displacement lubrication pump, automatic lubrication, mainly for bed guide rails and dovetail surfaces on the carriage, and lubrication surfaces between ball screws and nuts, uninterrupted oil supply.</p>

Part 4: Standard Equipment & Optional Parts

● Standard Configuration

No.	Part Name	Supplier
1	CNC System	GSK 988TA
2	Linear guide rail	HIWIN/PMI
3	Ball-screw	THK/PMI,TAIWAN
4	Screw rod bearing	KOYO
5	Hydraulic chuck	BDF/KPT
6	Hydraulic station	MF
7	Servo turret	XJG,TAIWAN 8 Stations

8	Spindle Unit	SQ,,CHINA
9	Lubrication pump	HEJIN,,CHINA
10	Cooling pump	OURUIS
11	Triple alarm light	JINYE
12	Heat Ex-changer	XINXIN,CHINA
13	Low Voltage Apparatus	CHINT

● **Optional Parts**

No.	Part Name	Details
1	CNC system	FANUC
		SIEMENS 808D
		SYNTEC
		HNC
		KND
2	Servo turret	12 stations (cutter head 330)
3	Chip conveyor	Side place
		Behind place
4	Tool Setter	Tool touch sensor
5	Automatic door	
6	Safety device for auto door	
7	Oil mist collector	
8	Oil-Water Separator	
9	Robot IF	
10	Bar material feeder	
11	Blowing device	
12	Water gun	
13	Soft jaw chuck	

Part 5 :Manufacturing Time

Around **35** 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 ANTISHICNC

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

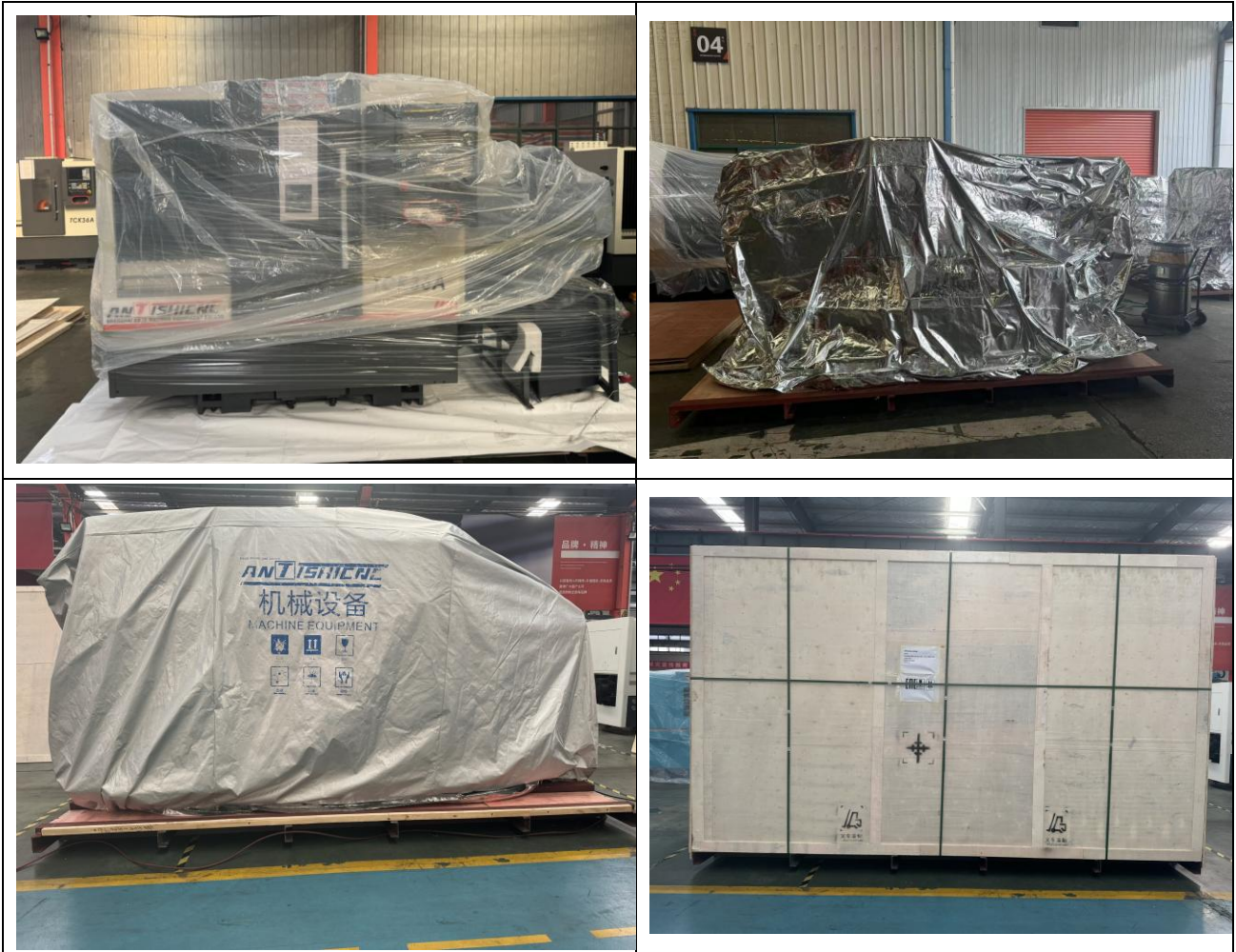
Factory qualified certificate 1 copy

Use 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: April 8th, 2025

Machine Type	Equipment Model	Technical Parameter	PRICE in USD (EXW factory)
Slant Bed CNC Lathe	TCK46A	CNC System: GSK980TA system Spindle Hole: 56mm Chuck Size: 8 inch Hydraulic Tool Station: 8 Servo turret spindle unit 3500 rpm, Taiwan linear rail, Taiwan screw rod Japanese screw rod bearing, spindle through hole 56mm, conjoined bed, hydraulic tailstock travel X: 240, Z: 540mm 380V 50HZ 3 PH Export wooded packaging	USD/set

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

Remarks :

- 1. Origin:** The People's Republic of China
- 2. Delivery Time:** 35 Days ready for the factory acceptance test.
- 3. Payment terms:** 30% payment in advance for deposit, 70% balance after the pre-acceptance test before shipment
- 4. Package:** Exporting standard Wooden Box Package
- 5. Validity:** 30 Days. (The buyer has to re-check with seller if the quotation validity is expired)
- 6. Warranty time:** 12 months since the machine installed at buyer's site.