

Turning Center Machine

Model: TCK66A



Supplier: Shanghai ANTS Machine Equipment Co.,Ltd

Contents

Item	Contents Description
1	Technical Parameter
2	Product Reference Picture
3	Equipment Introductions
4	Standard Equipment
5	Manufacturing Time
6	Acceptance Test
7	Quality Assurance & After-sales Service
8	Packing & Shipping Terms
9	Company Introduction
10	Quotation & Transaction Terms.

Technical proposal

Part 1: Technical parameter

Specifications		Unit	TCK66A
Max. Swing over Bed		mm	φ660
X guide rail span		mm	343
Z guide rail span		mm	490
Max. Swing over slide		mm	φ400
Center distance		mm	700
Max. turning length		mm	700
Top distance	From the bed	mm	425
	From the ground	mm	1090
Spindle through hole diameter		mm	φ85
Bar diameter		mm	φ75
Hollow chuck pull rod through hole		mm	φ75
Spindle end type			A2-8
Chuck		mm	Hydraulic φ250
Spindle Taper Hole Taper		No	Metric 90, 1: 20
Spindle revolution range		rpm	0-2600 (Automatic)
Tailstock sleeve diameter		mm	φ74
Tailstock sleeve bore taper		No	MT5#
Tailstock sleeve travel		mm	700
Tailstock configuration			Hydraulic
Tool turret		PC	8

Knife square size		mm	25×25(8 stations)
Screw model	X direction	mm	FDC4010-P2
	Z direction	mm	FDC4010-P2
X/Z rapid traverse speed		m/min	15/15
X travel		mm	270
Z travel		mm	800
Min. setting unit		mm	0.001
Main motor power		KW	11 (servo)
Total power		KW	18
Machine net weight		Kg	5000
Dimensions (L×W×H)		mm	3500×2000×2100

Part 2 : Product reference picture



Part 3: Equipment Introductions

Product description

The TCK66A 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&Optional Equipment

Standard Equipment:

Name	Specifications	Quantity	Supplier
Control System	GSK 988T	1 set	GSK
Spindle motor	11 KW Servo	1 set	China
Spindle unit	φ260	1 set	China
Screw bearing	30TAC62B/DB/PN5D	1 set	NSK
Ball screw	X direction: 40-10T4-2FDIC-699 Z direction: 40-10T4-2FDIC-1391	1 set	China
Line track	X direction: HGW45CA2R760ZBP Z direction: HGW45CA2R1565ZB22.5/82.5P Tailstock: HGW45CA2R1545ZB22.5/62.5P	1 set	China

Knife holder	TX-200-8T	1 set	China
Automatic lubrication device	HR-3	1 set	China
Three-jaw hydraulic chuck	K11250/A2-8	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 pre-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	TCK66A	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 :

1. **Origin:** The People's Republic of China
2. **Delivery Time:** 45-60 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)