

Turning and Milling Compound CNC lathe Machine

Model: TCK25Y



Supplier: Shanghai ANTS Machine Equipment Co.,Ltd

Contents

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

Technical proposal

Part 1: Technical parameter

Specifications		Units	TCK25Y
Max. Swing over bed		mm	Φ510
Maximum cutting length		mm	235
Maximum cutting diameter		mm	Disc type Φ250 Shaft type Φ150
Maximum rotation diameter on the skateboard		mm	Φ250
Spindle end type and code			A2-5
Spindle hole diameter		mm	Φ56
Maximum bar diameter		mm	Φ44
Spindle speed range		r/min	50 ~ 4500
Spindle maximum output torque		N·m	107
Main motor output power		kW	5.5/7.5 30 minutes/continuous
Chuck diameter		inch	6"
X-axis rapid movement speed		m/min	24
Z-axis rapid movement speed		m/min	30
Y-axis rapid movement speed		m/min	24
X-axis travel		mm	135
Y axis travel		mm	60 (±30)
Z-axis travel		mm	370
Tool holder			Horizontal 12 stations BMT40
Tool size	Chuck specifications		ER20
	External round knife	mm	20×20

	Boring bar diameter	mm	Φ25/Φ20
Tool holder to power head transmission ratio			1:1 direct connection
Is it possible to choose the knife from the knife disc nearby?			yes
Machine weight		kg	3000
weight capacity	disk type parts	kg	100(including chuck)
	Shaft type parts	kg	250 (including chuck)
Machine appearance (length × width × height)		mm	1430×1025×1470

Part 2 : Product reference picture


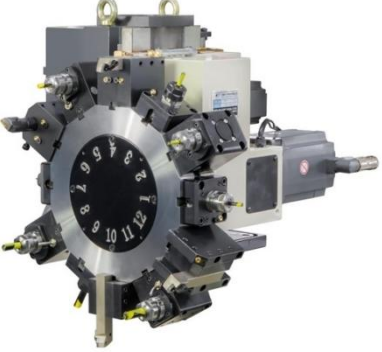

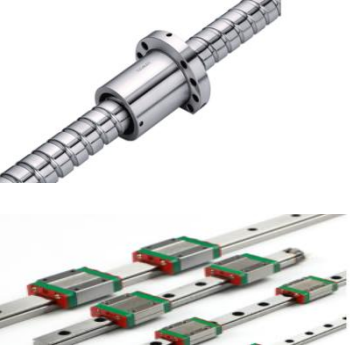


Part 3: Equipment Introductions

Product description

1. This series of machine tools is a mature product of ANTISHICNC. The machine has a compact structure, beautiful appearance, large spindle torque, high rigidity, stable and reliable performance, and excellent accuracy retention.
2. It adopts a 30° or 45° overall inclined bed structure and is equipped with high-precision preloaded Taiwan linear roller guides. The machine tool has high position accuracy, smooth chip removal, and is suitable for high-speed and high-precision machining.

3. It is precision assembled with high-precision spindle unit and spindle box, and the sub-spindle is precision assembled with high-precision electric spindle and sub-spindle box.

<p>Spindle</p>		<p>The spindle adopts a high-precision spindle bearing set and has been precision assembled and dynamically balanced tested to ensure high spindle accuracy, low noise and strong rigidity.</p>
<p>Tool holder</p>		<p>The tool changing speed is fast and the positioning accuracy is high. Commonly used is a Y-axis powered turret.</p>
<p>Chuck</p>		<p>The wedge-shaped through-hole chuck can quickly clamp and loosen the workpiece under the action of hydraulic pressure, with fast clamping speed and high precision.</p>
<p>Machine transmission</p>		<p>The screws and nuts are processed, ground, assembled and quality controlled in a constant-temperature workshop to ensure their high-precision stability. The linear rail has a small friction coefficient, fast movement speed and high precision.</p>

Sub-spindle		<p>The electric spindle uses a high-precision spindle bearing set and has been precisely assembled and dynamically balanced to ensure high spindle accuracy, low noise and strong rigidity.</p>
Machine tool lubrication		<p>Volumetric lubrication pump, automatic lubrication, mainly bed guide rails and The lubricating surface between the ball screw and nut is continuously supplied with oil.</p>

Part 4: Standard Equipment&Optional Equipment

Standard Equipment

Name	Specifications	Quantity	Supplier
Control System	GSK988	1 set	GSK
main motor	ZJY208A-5.5AM	1 set	GSK
X-axis motor (with brake)	130SJT-MZ100D	1 set	GSK
Z-axis motor	130SJT-M100D	1 set	GSK
Y-axis motor (with brake)	130SJT-MZ075D	1 set	GSK
X-axis ball screw	φ32×12-635	1 set	Hiwin
Z-axis ball screw	φ32×12-1542	1 set	Hiwin
X-axis guide rail	35 gauge ball	1 set	Hiwin
Z-axis guide rail	35 gauge ball	1 set	Hiwin
X-axis screw bearing	25X62X15	1 set	NSK/NTN
Z-axis screw bearing	25X62X15	1 set	NSK/NTN

Hydraulic chuck	6 inches hollow	1 set	China
Tool holder	Horizontal 12-station Y-axis servo tool holder	1 set	China
Cooling chip removal device	Right chain plate chip conveyor	1 set	China

Optional accessories

Name	Specifications	Quantity
Control System	Siemens/Fanuc	1 set

Part 5 :Manufacturing Time

Around 60 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 ANTS machine

Part 6 : Acceptance Test

Test items		Standard tolerance (mm)
Precision		IT6
Processing workpiece roundness		0.0025mm/Φ75
Machining workpiece cylindricity		0.010mm / 150mm
Machining workpiece flatness		0.010mm/Φ200mm
Surface roughness of machined workpiece		Ra1.25μm
Positioning accuracy	X-axis	0.008mm
	Z axis	0.008mm
Repeatability	X-axis	0.004mm
	Z axis	0.004mm

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. Machine Dimensions&Foundation Drawing****2. Provide the following technical documents when the equipment is delivered**

Packing List 1 copy

Accessory name	Model specification	Quantity
Footing iron		1 set
Turning tool holder	External circular knife pressing block 20X20	4 sets
	End tool holder 20X20	1 pcs
	Boring tool holder ϕ 25	3 each
	Tool cover ϕ 20	1 each
Cooling chip removal device	Right chain plate chip conveyor	1 set
Iron filing trolley		1 set

Certificate of conformity (including precision inspection sheet) 1 copy

User's manual 1 copy

CNC system manual 1 copy

Electric tool holder manual 1 copy

Inverter manual 1 copy

Motor manual 1 copy

Driver Manual 1 copy

3. 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





Part 10: Quotation & Transaction Terms

QUOTATION SHEET

CURRENCY UNIT : USD

HS Code : 8458110090

Date: February 2, 2024

Machine Type	Equipment Model	Technical Parameter	PRICE in USD (FOB Shanghai)
Turning and Milling Compound CNC lathe Machine	TCK25Y	GSK988cnc system 8-station turret Chain plate type	- 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:** 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

- 4. Package:** Factory ordinary packaging, please confirm with the ANTISHI for more details
- 5. Validity:** 30 Days. (The buyer has to re-check with seller if the quotation validity is expired)