

Slant Bed CNC lathe

Model: TCK50A*1500



Supplier: Shanghai ANTS Machine Equipment Co.,Ltd

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Technical proposal

Part 1: Technical parameter

Specifications		Units	TCK50A/1500
Max. Swing over bed		mm	Φ 560
Swing over cross slide		mm	Φ 300
Distance between center		mm	1500
Max. disc machining diameter			Φ 440
Max. turning length		mm	1500
Spindle end type			A2-8
Spindle through hole diameter		mm	Φ 86
Bar diameter		mm	Φ 75
Hydraulic chuck		mm	10 inch
Hydraulic chuck pull rod through hole		mm	75
Rail form			Linear Guides
Spindle taper taper		No	Metric 92 1: 20
Spindle limit speed		rpm	3000rpm
Tail-stock sleeve diameter		mm	90
Tail-stock sleeve inner hole taper		No	Mohs 5#
Tail-stock sleeve stroke		mm	80
Tail stock form			Hydraulic
Tailstock travel		mm	1200 (Servo)
Tool post/Turret		Position	8
Knife square size		mm	25×25
Maximum boring tool diameter		mm	Ø40
Screw model	X-Direction		3210
	Z-Direction		5010
	Tailstock		4010
Rail model	X-Direction		RGH45CA2R725
	Z-Direction		RGH45CA2R2250
	Tailstock		RGH45CA2R2155
X/Z motor torque		N.M	10/10
X/Z rapid traverse speed		m/min	18/18
X travel		mm	260
Z travel		mm	1500
Mini. setting unit		mm	0.0001
Main motor power		KW	15
Total power		KW	26

Machine net weight	Kg	5000
Dimensions (L×W×H)	mm	4000*2000*2100

Part 2 : Product reference picture




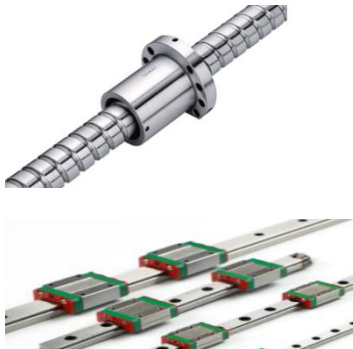




Part 3: Equipment Introductions

Product description

The TCK Series High Precision CNC Turning Center Slant Bed 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

<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>Can choose the tool turret method, which has fast tool changing speed and high positioning accuracy. Hydraulic turrets and servo turrets are commonly used, and power turrets can also be used.</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>

Tailstock		The hydraulic tailstock is processed manually (or hydraulically), manually (or hydraulically) locked, and the hydraulic piston tightens the workpiece.
Machine tool lubrication		RBCLB-3ZK type volumetric lubrication pump, automatic lubrication, Mainly the dovetail surface of the bed guide rail and carriage, and the lubricating surface between the ball screw and nut Uninterrupted fuel supply.

Part 4: Standard Equipment&Optional Equipment

Standard Equipment

Name		Specifications	Quantity	Supplier
CNC System		GSK988T	1set	GSK
Spindle motor		ZJY265A-11BL-B35	1set	GSK
Spindle unit		CK230A2-8PLT	1set	China
Spindle bearing		NN3024K+7024AC/DB+ NN3022K	1 set each	China
Guide	X -Direction	RGH45CA2R725	2 sets	HIWIN/PMI
	Z-Direction	RGH45CA2R2250	2 sets	HIWIN/PMI
	Tailstock	RGH45CA2R2155	2 sets	HIWIN/PMI
Ball screw	X-Direction	3210/703	1 set	HIWIN/PMI
	Z-Direction	5010/2139	1 set	HIWIN/PMI
	Tailstock	4010/1952	1 set	HIWIN/PMI
Screw bearing		25TAC62/30TAC62	2 set each	NSK
		40TAC72	5 sets	NSK

Tool post/Turret	TCS-100-8T	1set	China-Taiwan
Automatic lubricating device	RBCLB-3ZK	1set	China
Cooling pump	450W	1set	China
Hydraulic station	2.2kw	1set	China
Hydraulic chuck	KT0-3/A2-8	1set	China
Chip conveyor	Chain plate type (optional)	1set	China

Optional accessories

Name	Specifications	Quantity
Control System	FANUC	1 set
Chip conveyor	Chain plate type	1 set

Part 5 :Manufacturing Time

Around 45-60 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)
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.

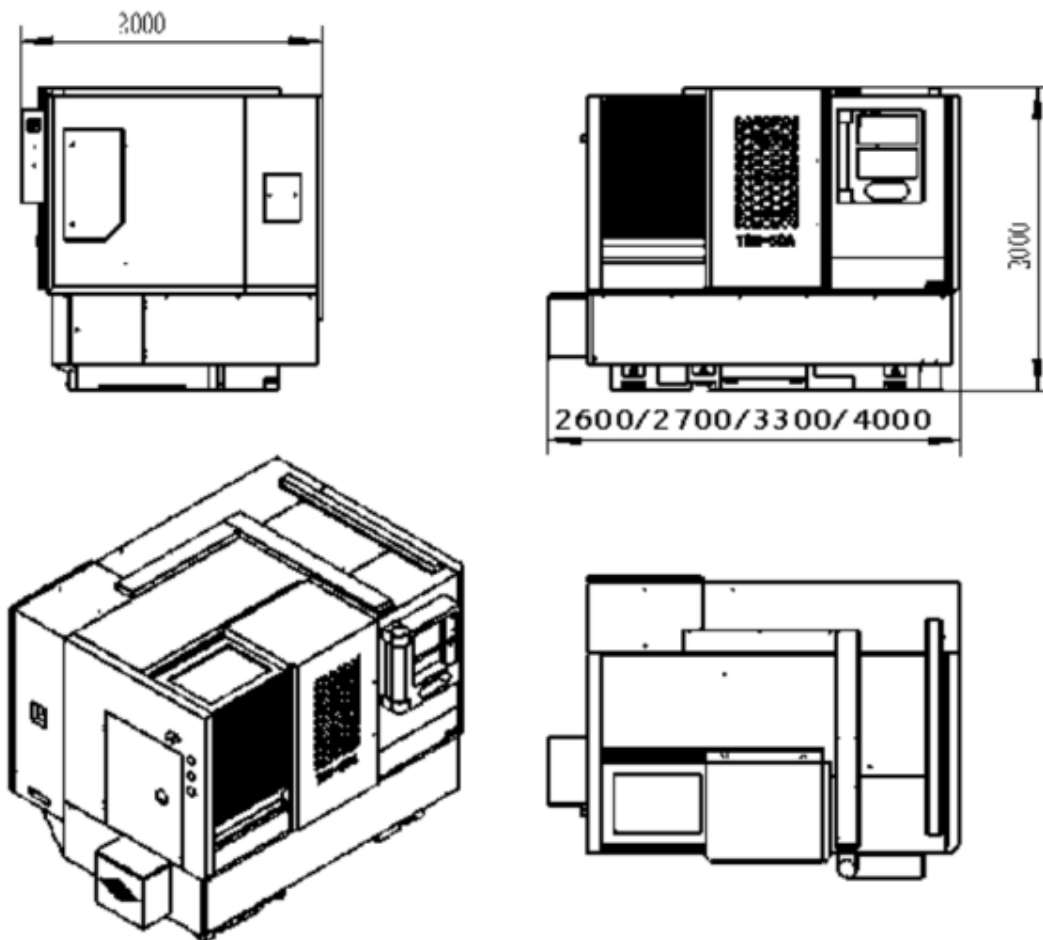
Warranty service:

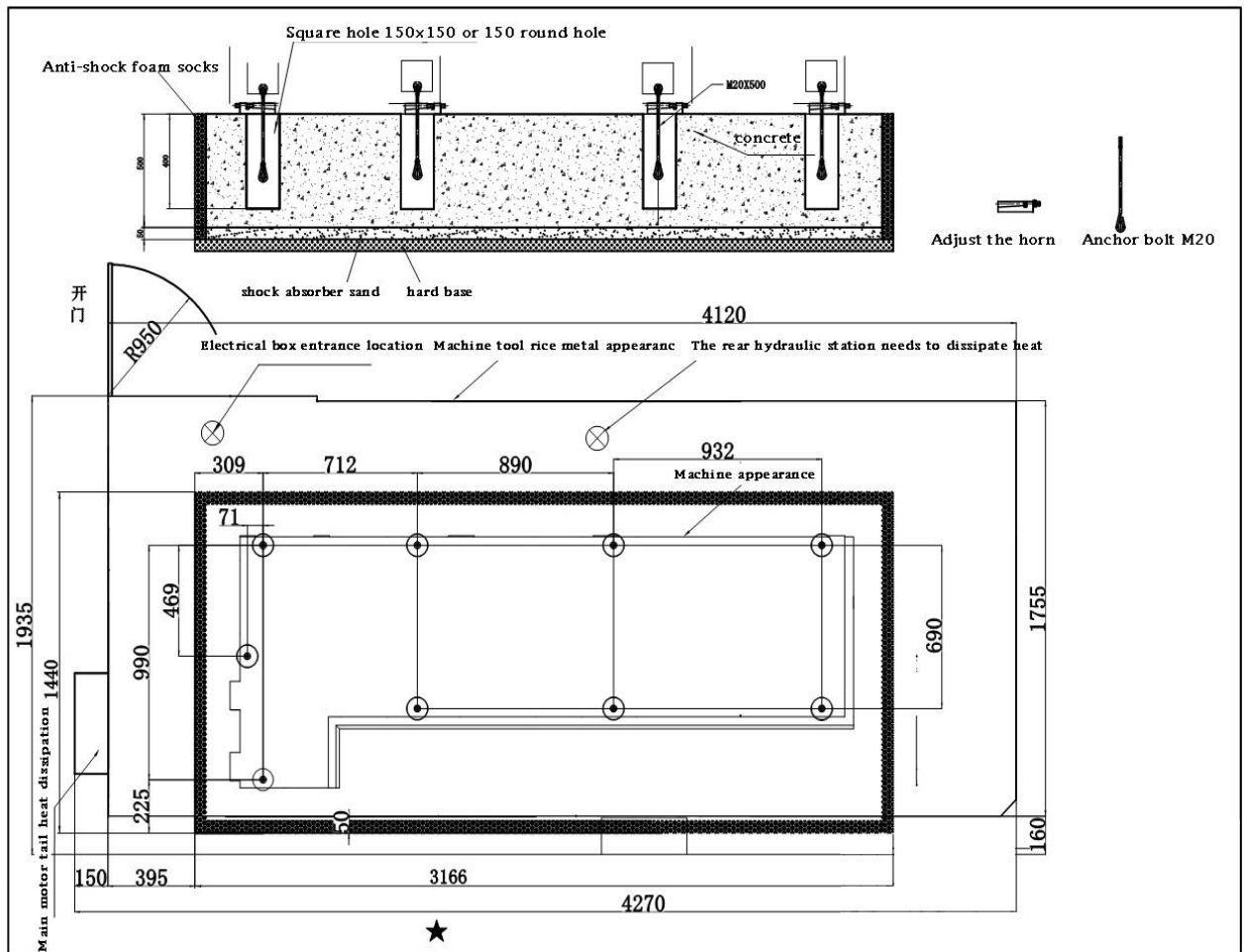
one year warranty(12 months since customer receive & use the machine).

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

Part 8: Packing & Shipping Terms

1. Machine Dimensions&Foundation Drawing





2. Provide the following technical documents when the equipment is delivered

Packing List 1 copy

Certificate of conformity (including precision inspection sheet) 1 copy

User's manual 1 copy

CNC system manual 1 copy

Electric knife holder manual 1 copy

Inverter manual 1 copy

Motor manual 1 copy

Driver Manual 1 copy

Oil pump 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



ISO 14001 Environment
Management System

ISO 9001 Quality
Management System

European CE
Certificate



Part 10: Quotation & Transaction Terms.

QUOTATION SHEET

CURRENCY UNIT : US\$

Date: January 24, 2024

Machine Type	Equipment Model	Technical Parameter	PRICE in USD (EXW Factory)
Slant Bed CNC lathe	TCK50A*1500	GSK 988T CNC system Servo spindle: 15kw, Spindle through hole: 86MM, 10-inch domestic hollow chuck 8-station servo turret Servo tailstock	48900 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:** Factory export wood box packing
- Validity:** 30 Days. (The buyer has to re-check with seller if the quotation validity is expired)

