

Flat Bed CNC lathe

Model: CK6152E



Supplier: Shanghai ANTS Machine Equipment Co.,Ltd

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Technical proposal

Part 1: Technical parameter

UNIT		Specifications			
		CK6152E/ 1000	CK6152E/ 1500	CK6152E/ 2000	CK6152E/ 3000
Max.swing diameter over bed	mm	Φ530	Φ530	Φ530	Φ530
X axis travel	mm	220	220	220	220
Z axis travel	mm	440	440	440	440
Swing over cross slide	mm	Φ250	Φ250	Φ250	Φ250
Distance between centers	mm	1000	1500	2000	3000
Max working diameter(Disc)	mm	530	530	530	530
Maximum turning length	mm	825	1325	1825	2825
Center height	From the bed	mm	265		
	From the ground	mm	1125		
Spindle bore	mm	Φ90			
Bar capacity	mm	Φ79			
Hollow chuck rod bore(Optional)	mm	Φ75			
Spindle nose types		A2-8			
Chuck	mm	OrdinaryΦ250 (82Hole)			
Spindle bore taper	No	Metric 100, 1: 20 (82Hole)			
8-inch hollow chuck inner diameter(Optional)	mm	Φ65			
Spindle max speed	rpm	Manual 3 steps: 30~150,90~450,315~1600			
Tailstock quill diameter	mm	φ75			
Tailstock quill taper	No	MT5#			
Tailstock quill travel	mm	150			
Tailstock types		Manual (Optional: Hydraulic Tailstock)			
Electric tool position	pc	4(Optional : electric 6/8 position)			
Tool size	mm	□25×25(4 position)			

Screw model	X axis	mm	FDC2506-P3			
	Z axis		FDC4210-P3	FDC5010-P3	FDC5010-P3	FDC6310-P3
X/Z axis rapid traverse		m/min	6/8	6/8	6/8	6/8
X axis travel		mm	300	300	300	300
Z axis travel			1000	1500	2000	3000
Minimum setting unit		mm	0.001	0.001	0.001	0.001
Main motor power		kw	7.5	7.5	7.5	7.5
Total power supply		kw	12	12	13	13
Machine weight		kg	2900	3150	3500	4300
Overall dimension		mm	2640×1800×1740	3100×1800×1740	3600×1800×1740	4800×1800×1740

Remark:

1. When installing a chuck or fixture, please pay attention to the limit speed of the selected chuck or fixture.
2. CNC machine tools have strict power supply requirements. If the user's power grid fluctuates by more than ±10%, the voltage regulator must be increased, otherwise the CNC machine tool will not work properly and even unpredictable results will occur.

Part 2 : Product reference picture



Part 3: Equipment Introductions

The CK6150E is a mature product mainly exported by the company. The whole machine has a compact structure, beautiful and pleasant appearance, high spindle torque, high rigidity, stable and reliable performance, and excellent accuracy retention.

The optimized design of the headboard is suitable for turning disc and shaft parts. It can process straight lines, arcs, metric and inch threads, and multi-head threads. It can be applied to turning disc and shaft parts with complex shapes and high accuracy processing requirements.



Both the machine tool guide rail and the sliding saddle guide rail are made of hard guide rail of special materials, which are hardened at high frequency, super hard and wear-resistant, durable, and have good machining accuracy retention.

The CNC system adopts Guangshu GSK980TC3 system, and adopts domestic ball screws and high-precision screw bearings.

The spindle with high-precision spindle bearing group and precision assembly and dynamic balance test is used to ensure high spindle accuracy, low noise and strong rigidity.

Both the machine tool guide rail and the sliding saddle guide rail are made of hard guide rail of special materials, which are hardened at high frequency, super hard and wear-resistant, durable, and have good machining accuracy retention. The guide rail is equipped with a chip scraping device to prevent the guide rail from being corroded by iron shavings and coolant, and to facilitate the cleaning of iron shavings.

Features

	<p>Spindle description: High-quality steel die forging normalizing processing quenching and tempering semi finishing high frequency precision machining finished products. The high-precision spindle bearing group has been precisely assembled and dynamically balanced to ensure high precision, low noise and strong rigidity of the spindle.</p>
	<p>Knife holder description: Adopt non-contact signal transmission, anti-pinning; tool change does not need to lift the tool, adopts international advanced three-terminal tooth precision positioning, thread lifting and tightening; has high working reliability, good rigidity, long life and sealing Good performance and other advantages.</p>

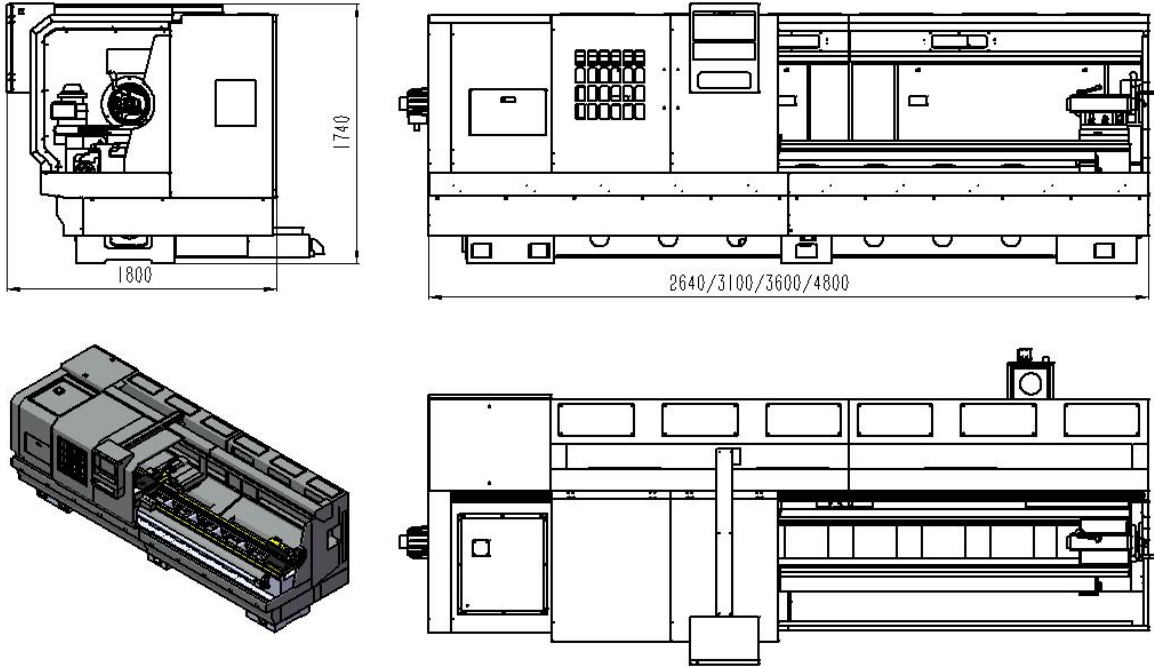
	<p>Chuck description: K11 series three-jaw self-centering chuck, short cylinder connection, integral jaws (one pair of positive and negative), K11A/C/D type jaws are separated jaws, which can be adjusted as positive jaws and reverse jaws use.</p>
	<p>Transmission description: Screws and nuts are processed, ground, assembled and quality controlled in a constant temperature workshop to ensure their high precision and stability.</p>
	<p>Tailstock description: After the manual tailstock is manually moved to a certain position, loosen the locking handle, rotate the handwheel to move the sleeve, push the workpiece tightly, then lock the sleeve, and then turn. The hydraulic tailstock is processed by hydraulic adjustment and locking, and the hydraulic piston presses against the workpiece.</p>
	<p>Machine tool lubrication instructions: Each lubrication point adopts a forced automatic lubrication device for fixed-point quantitative lubrication of the screw and guide rail. When there is an abnormal state or insufficient oil, a warning signal is automatically generated, and the work is stable and reliable.</p>

Part 4: Main configuration

Item	Specification	No	Brand	Origin
Control system	GSK 980TC3	1 set	GSK	China
Spindle motor	7.5 KW Servo main motor	1 set	GSK	China
Spindle structure	Manual 3 steps	1 set	ANTS	China
Spindle bearing	NN3026K/W33+234426BM1/ SP+NN3022K/W3	1 set	China	China
Guide rail	High frequency quenching	1 set	ANTS	China
Screw bearing	Special bearings for ball screws	1 set	DRZ/HBB	China
Tool post	Electric 4 position	1 set	WENCH	China
Automatic lubrication device	RBCLB-2BK	1 set	HEJIN	China
Three-jaw manual chuck	K11250	1 set	Universal	China
Cooling pump	150W/250W	1 set	Shanchuan	China
T hydraulic station (optional)	1 Short Line	1 set	MONFR/Geyao	China
Hydraulic chuck (optional)	6",10",12",15"	1 set	BDEFU/KEPUTE	China

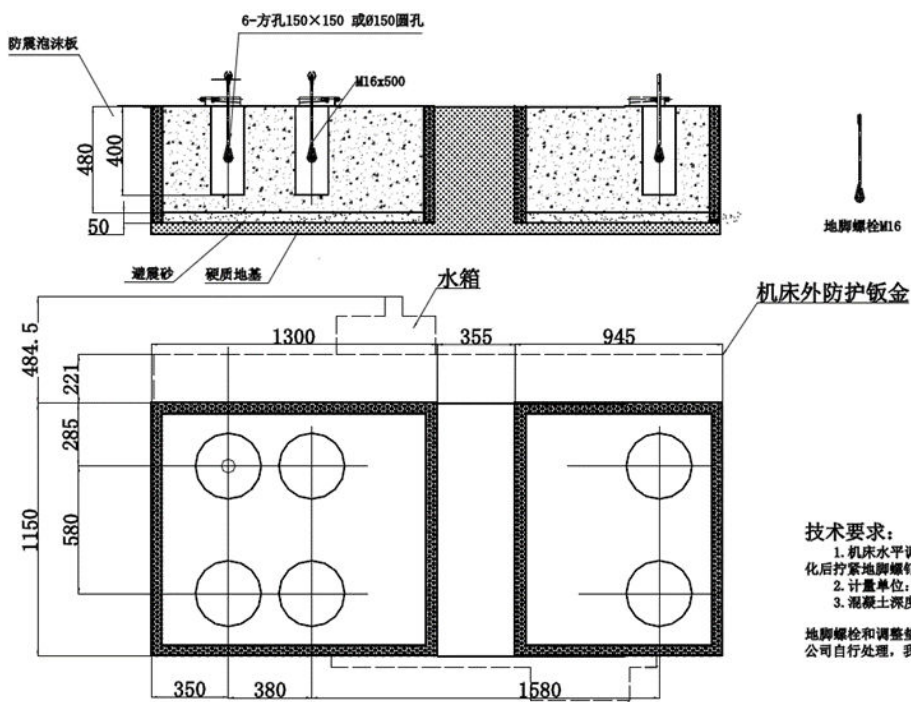
Part 5 :Overall dimension (Standard)

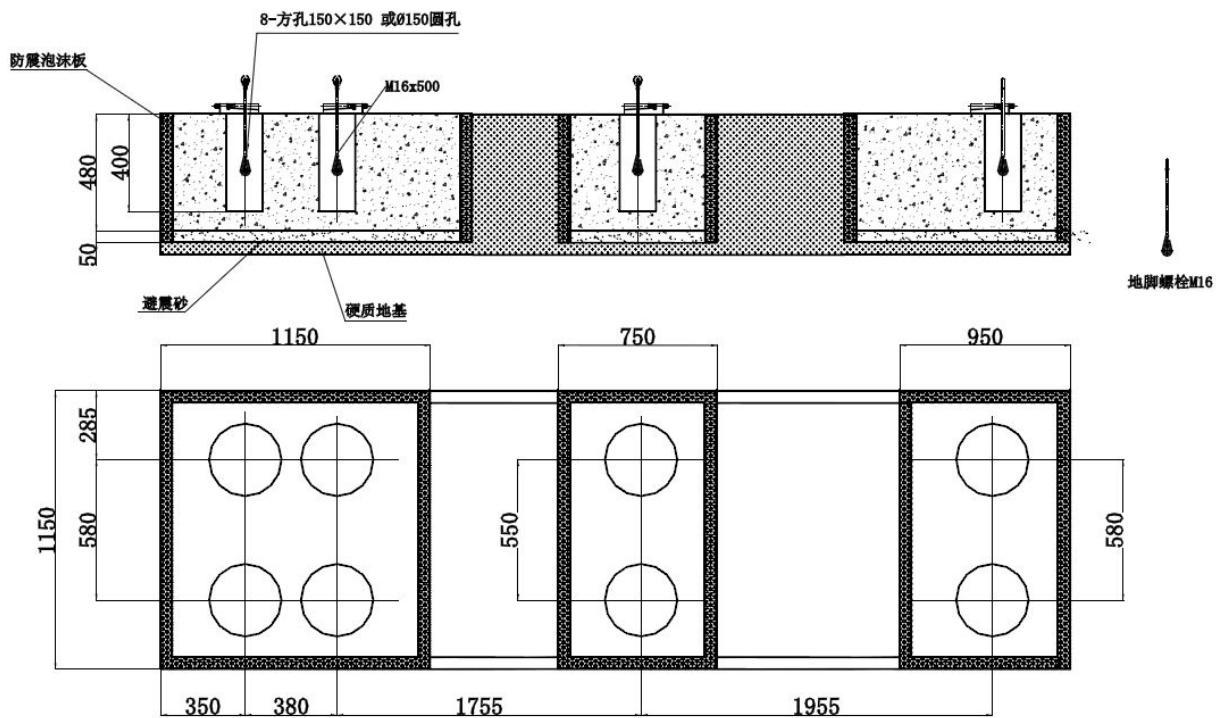
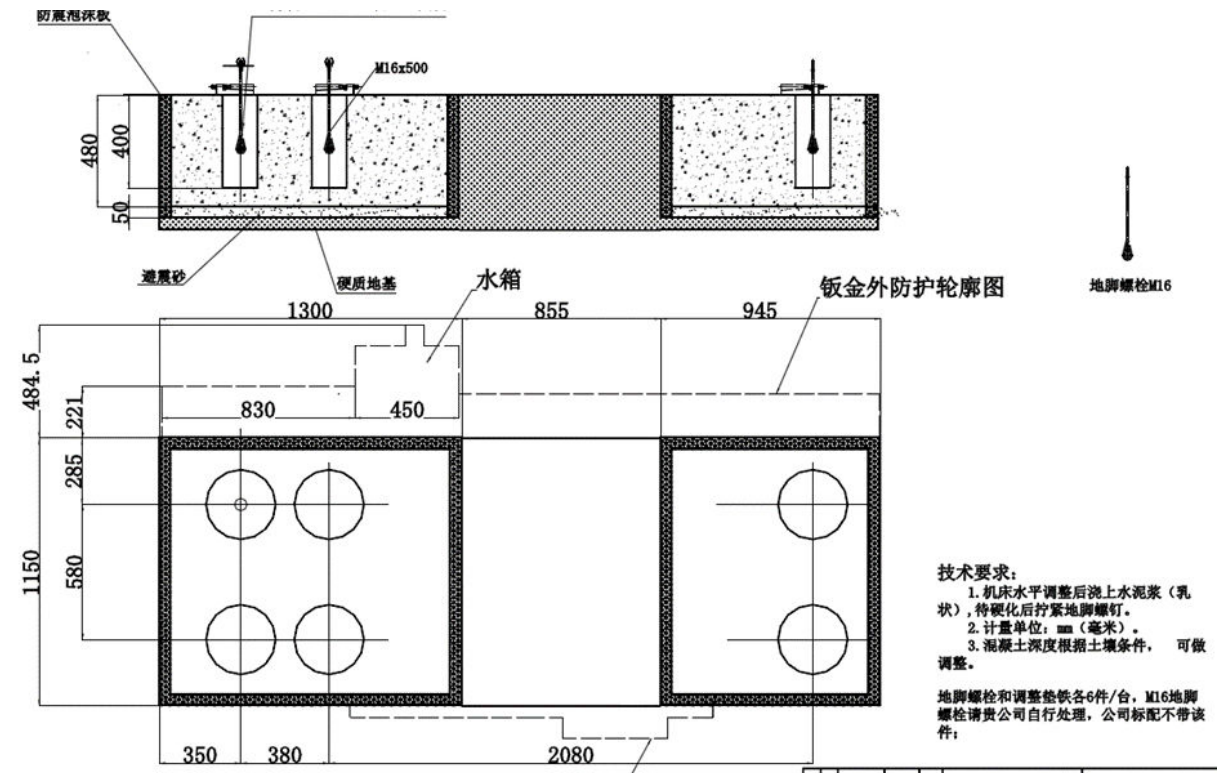
Example:



Part6: Drawings of the Foundation

Example:





Part 7: 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 8 : Acceptance Test

Executive standard: GB/T25659.1-2010

Inspection items		Standard tolerance (mm)
Periodic axial movement of the spindle		0.005
Radial runout of the positioning cone of the spindle chuck		0.005
Position	Repeat positioning accuracy A	X: ± 0.005 ; Z: ± 0.007
Diameter consistency		0.01/150
flatness		0.025/ $\phi 300$
Thread pitch product error		0.025/50
Surface roughness		Ra1.6 μ m

Remark: please contact with ANTISHI for more accuracy parameters

Part 9 : 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 10: 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
CNC system manual 1 copy
Electric tool manual 1 copy
INVERTER manual 1 copy
Motor manual 1 copy
Driver manual 1 copy
Oil pump manual 1 copy

2. Packaging and transportation

Exporting standard wood box packing

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

Part 11: 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.

Part 12: Quotation & Transaction Terms.**QUOTATION SHEET**

CURRENCY UNIT : USD

Date: June 23th, 2023

Machine Type	Equipment Model	Technical Parameter	PRICE in USD (EXW Factory)
Horizontal CNC lathe	CK6152E	GSK 980TC3 CNC SYSTEM	***** 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)