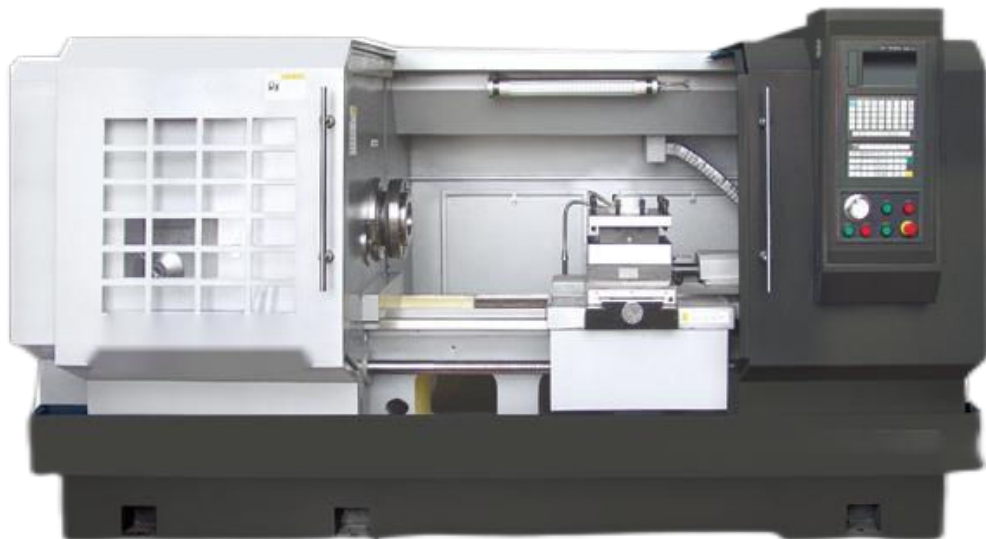


Flat Bed CNC lathe

Model: CK6165E



Supplier: Shanghai ANTS Machine Equipment Co.,Ltd

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Technical proposal

Part 1: Technical parameter

Item	Unit	Specifications				
		CK6165E/1000	CK6165E/1500	CK6165E/2000	CK6165E/3000	
Max.swing diameter over bed	mm	φ 650	φ 650	φ 650	φ 650	
X axis travel	mm	330	330	330	330	
Z axis travel	mm	550	550	550	550	
Swing over cross slide	mm	φ 375	φ 375	φ 375	φ 375	
Distance between centers	mm	1000	1500	2000	3000	
Max working diameter(Disc)	mm	650	650	650	650	
Maximum turning length	mm	950	1450	1950	2950	
Center height	From the bed	mm	350	350	350	350
	From the ground	mm	1050	1050	1050	1050
Spindle bore	mm	φ 105	φ 105	φ 105	φ 105	
Bar capacity	mm	φ 105	φ 105	φ 105	φ 105	
Hollow chuck rod bore(Optional)	mm	φ 88	φ 88	φ 88	φ 88	
Spindle nose types		C11	C11	C11	C11	
Chuck	mm	Manual φ 320	Manual φ 320	Manual φ 320	Manual φ 320	
Spindle bore taper	No	Metric120, 1: 20	Metric120, 1: 20	Metric 120, 1: 20	Metric 120, 1: 20	
Spindle max speed	rpm	Manual 3 steps (10 ~85, 40 ~ 350, 100~850)	Manual 3 steps (10 ~85, 40 ~ 350, 100~850)	Manual 3 steps (10 ~85, 40 ~ 350, 100~850)	Manual3 steps (10 ~85, 40 ~ 350, 100~850)	
Tailstock quill diameter	mm	φ 100	φ 100	φ 100	φ 100	
Tailstock quill taper	No	MT6#	MT6#	MT6#	MT6#	
Tailstock quill travel	mm	250	250	250	250	
Tailstock types		Manual	Manual	Manual	Manual	

Electric tool position	pc	4	4	4	4
Tool size	mm	32 × 32(4 position)	32 × 32(4 position)	32 × 32(4 position)	32 × 32(4 position)
Screw model	X axis	mm	GD3205-P3	GD3205-P3	GD3205-P3
	Z axis		GD5010-P3	GD5010-P3	GD6310-P3
X/Z axis rapid traverse	m/min	4/5	4/5	4/5	4/5
X axis travel	mm	400	400	400	400
Z axis travel		1100	1600	2100	3100
Minimum setting unit	mm	0.0001	0.0001	0.0001	0.0001
Main motor power	kw	11(Frequency)	11(Frequency)	11(Frequency)	11(Frequency)
Total power supply	kw	16	16	18	20
Machine weight	kg	4000	4400	5000	5800
Overall dimension	mm	3500 × 1900 × 1900	4000 × 1900 × 1900	4500 × 1900 × 1900	5500 × 1900 × 1900

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 CK6165E 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

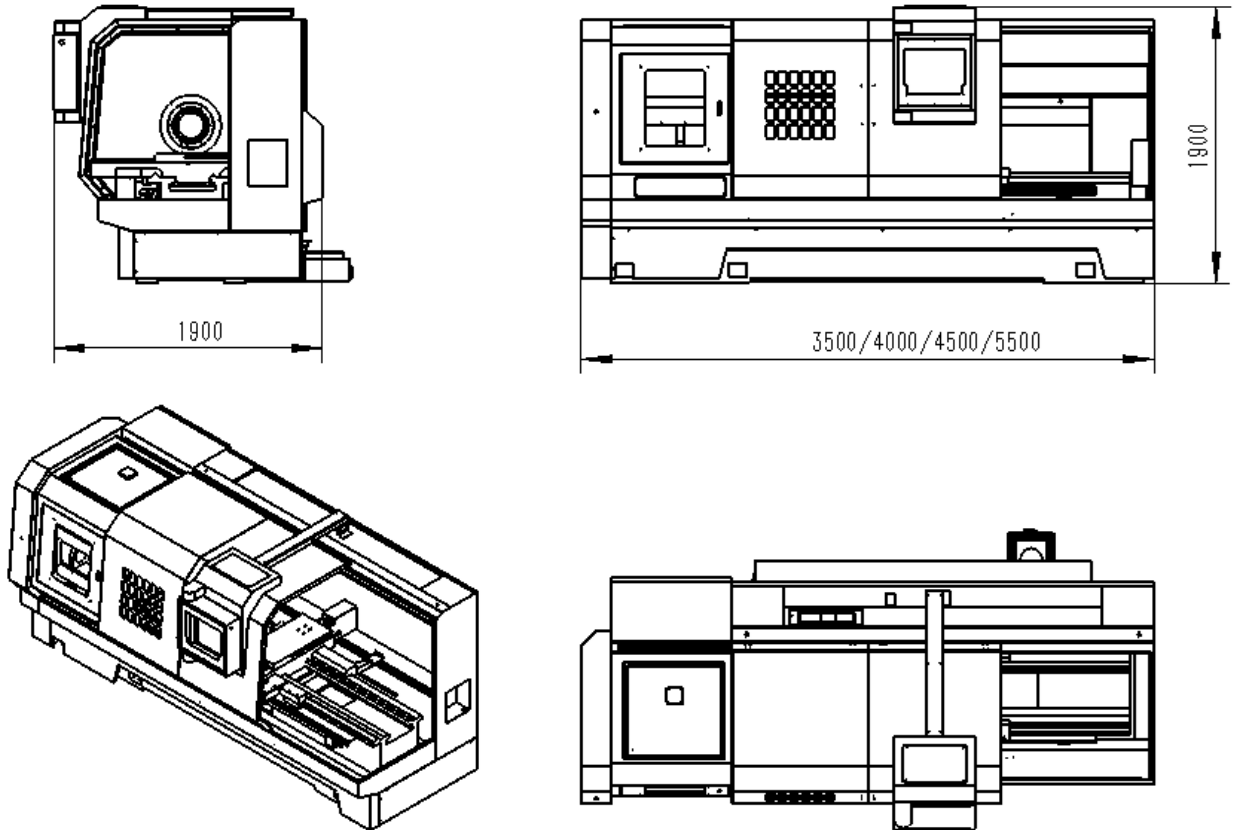
	<p>Spindle description: High-quality steel die forging-normalizing-processing-quenching and tempering-semi-finishing-high frequency-precision machining-finished products. The high-precision spindle bearing group has been precisely assembled and dynamically balanced to ensure high precision, low noise 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

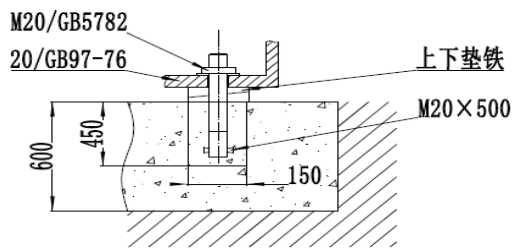
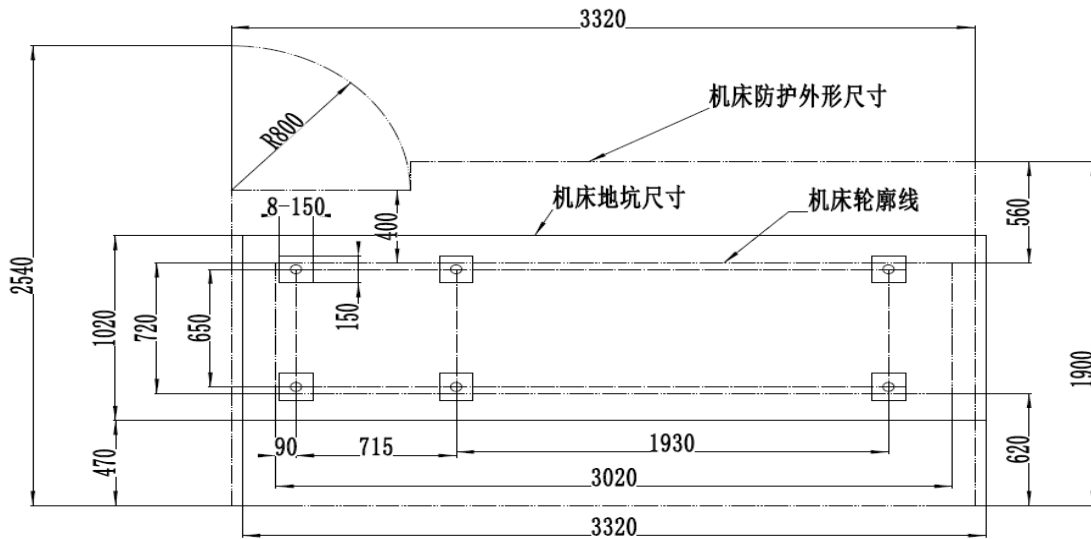
Item		Specification	No	Origin
Control system		GSK 980TC3/988T	1 set	China
Spindle motor		11 KW Frequency Conversion	1 set	China
Spindle structure		Precision Assembly	1 set	China
Spindle bearing		NN3032K/W33/P5NN3028K/W33 /P5234432M/SP	1 set	China
Guide rail		Hard rail	1 set	China
X direction ball screw		GD3205X740	1 set	China
Z direction ball screw	1/1.5 M	GD5010X1974/2474	1 set	China
	2/3 M	GD6310X2974/4028	1 set	
X direction screw bearing		7602025/DB/P5; 6205	1 set	China
Y direction screw bearing	1/1.5 M	7602040/DB/ P5; 6207	1 set	China
	2 M	7602045/QBC/P57602040/DB/P5	1 set	
	3 M	7602045/QBC/P5	2 sets	
Knife holder		LD4B-CK650	1 set	China
Automatic lubrication device		RBCLB-3ZK	1 set	China
Three-jaw manual chuck		K11320	1 set	China
Cooling pump		P=250W	1 set	China
Hydraulic station (optional)		60L	1 set	China
Hydraulic chuck (optional)		KT12-3	1 set	China

Part 5 :Overall dimension (Standard)



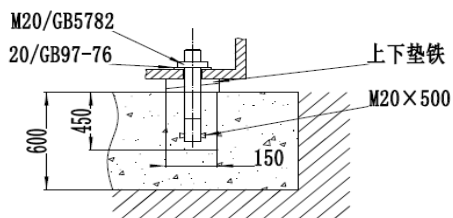
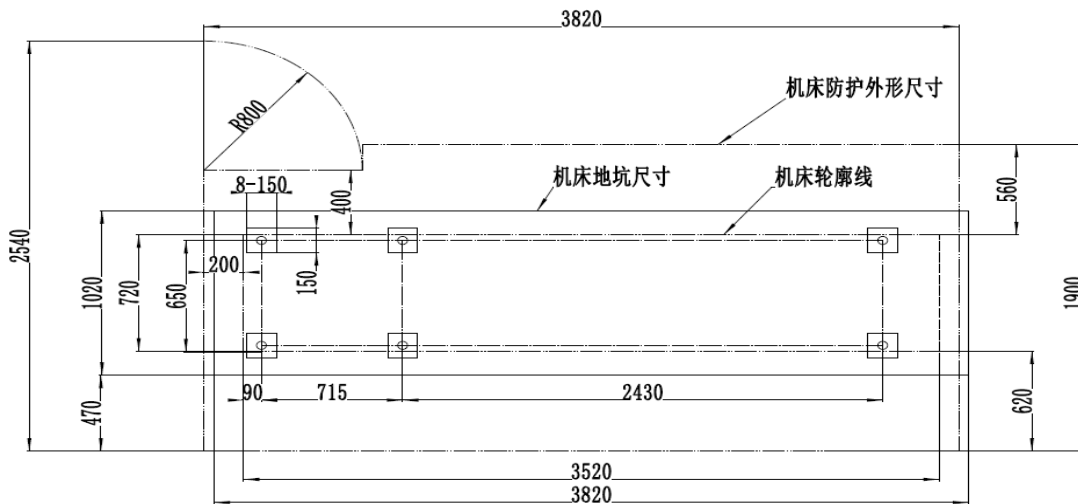
Part6: Drawings of the Foundation

CK6165EX1000新型



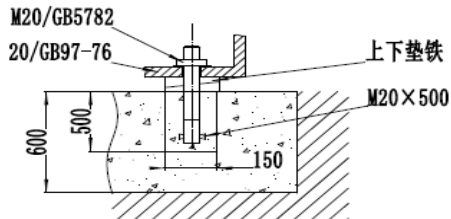
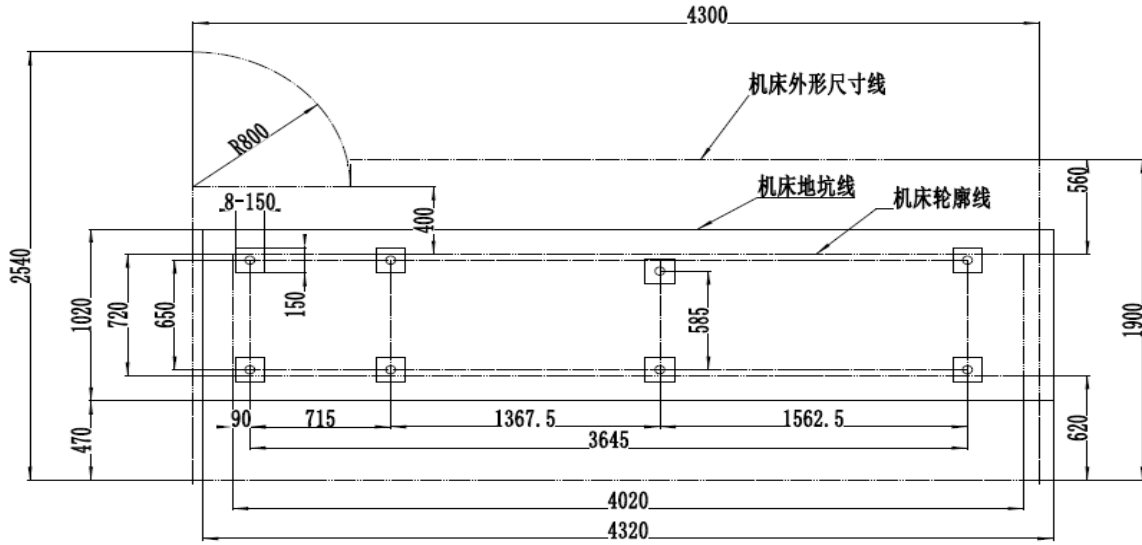
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CK6165EX1500新型



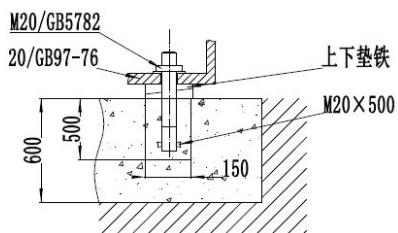
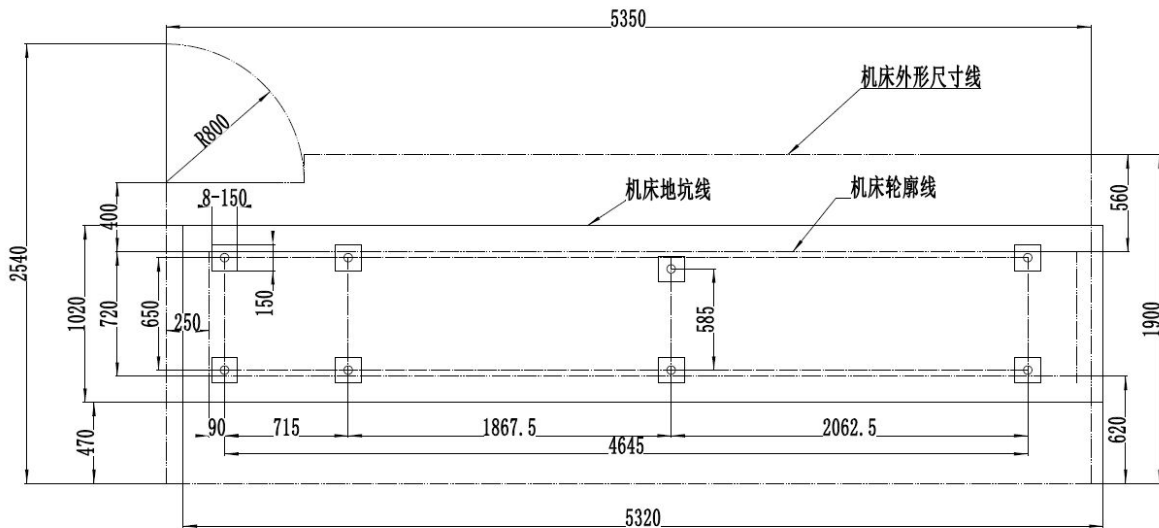
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CK6165EX2000新型地基图



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实现二次灌装！

CK6165EX3000新型地基图



注意：机床安装建议
实现二次灌装！

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 accuracy	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 μm

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.

Factory Pictures



ISO 14001 Environment Management System

ISO 9001 Quality Management System

European CE Certificate



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

CURRENCY UNIT : USD

Date: July 23th, 2023

Machine Type	Equipment Model	Technical Parameter	PRICE in USD (EXW Factory)
Horizontal CNC lathe	CK6165E	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)