



**通远重工**  
TONGYUAN HEAVY INDUSTRY

**做让世界赞美的中国机床**

MANUFACTURER CHINESE MACHINE TOOLS PRAISED BY THE WORLD



**山东通远重工机械有限公司**

SHANDONG TONGYUAN HEAVY INDUSTRY MACHINERY CO.,LTD

# COMPANY INTRODUCTION

Shandong Tongyuan Heavy Industry Machinery Co., Ltd. is an enterprise specializing in the research and development, production and sales of CNC lathe processing equipment. Mainly produces CNC large lathes, CNC heavy duty lathes, CNC roll lathes, CNC turning and boring compound machines, CNC turning and milling compound machines, CNC turning and grinding compound machines, CNC face lathes, special lathes for cathode rolls and other products.

The company covers an area of 20 acres and is divided into two workshops, north and south. The north workshop is the machining area. The main machining equipment includes: 12-meter German Heckert gantry-type guide rail grinder (processing linear accuracy is 2~3um/1000mm) a Japanese SNK machining center, Chinese famous brand 12 meters Gantry planer, Chinese famous brand coordinate boring machine, CNC machining center, plane milling machine, CNC lathe, quenching machine, vertical milling machine, radial drilling machine, EDM and other precision machining equipment. The South workshop is the machines assembly area, which is divided into sub-assembly area, final assembly area, test run area, painting area, warehouse and other areas.

Our company has passed ISO9001 quality management system certification, CE quality management system certification, environmental management system certification, occupational monitoring and safety management system certification, etc. Through a comprehensive certification system, improve the level of enterprise management, and strictly regulate the product production inspection process.

Effectively control the quality of each machine tool and establish a good market reputation.

At the beginning of its establishment, the company aimed at the mid-to-high-end market at home and abroad, relying on a professional technical team and high-end manufacturing equipment to create Tongyuan quality and Tongyuan brand. The company has set up branches in Iran, offices in France, and agents in India, Russia, Ukraine, Xinjiang and other countries. Products are exported to more than 40

countries and regions such as France, the United States, Canada, Hungary, Ireland, Spain, and Singapore.

Shandong Tongyuan Heavy Industry Machinery Co., Ltd. is an enterprise doing business with heart, treating customers sincerely, is down-to-earth and conscientious, and strives for the development of the national industry!

SERVICE CONCEPT: No worries for after-sales service

BEFORE-SALES SERVICE: Not only manufacturing machine, but also providing the most professional cutting solution

AFTER-SALES SERVICE: The whole machine is guaranteed for one year, with lifelong service; The whole machine is guaranteed for one year, with lifelong service;

The 24-hour telephone online service can also scan the code through the mobile phone and complete the repair without button;

Give a reply within 2 hours after receiving the user's notice, and arrive at the site within 48 hours at the latest.

# COMPANY VIEW

## 01/ Customer visiting



## 02/ Installation and commission



## 03/ Exhibitions



## 04/ Manufacturing facility



# Application Industry

# PRODUCT CATALOG

General industry



Renewable energy industry



Steam turbine industry



Petroleum equipment industry



Iron and steel industry



Paper machinery



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## CK611-L series CNC large horizontal lathe



### Features

CK611-L series machine are large horizontal flat bed CNC lathes, adopt SIEMENS or FANUC CNC system, and full digital AC servo system. The main drive for turning is automatic four-speed stepless speed change, the main motor is an AC spindle motor, and two linkage control axes are used. The Z-axis and X-axis of the machine with a center distance of 1-5M adopt ball screw pair and AC servo motor to realize longitudinal and lateral movement; the Z-axis of the machine with a center distance of more than 6M adopts a rack and pinion and a grating ruler, and the X-axis adopts a ball screw pair Add AC servo motor to achieve longitudinal and lateral movement, with good positioning and repeat positioning accuracy.

The main components and structure of the machine are optimized and designed, and the stability of the whole machine is excellent. Applicable to energy, chemical industry, light industry, electromechanical, paper-making, automobile industry and other industries. It has the characteristics of high precision, high power, high rigidity and high degree of automation. It is suitable for processing shaft, sleeve and disc parts. Such as turning inner and outer cylindrical surfaces, conical surfaces, arc surfaces, end surfaces, grooving, chamfering, threading, etc., the process has strong adaptability, high processing efficiency, simple operation, and comprehensive functions, which can reduce the need for skilled workers. requirements, it is an ideal machining equipment.

Notice: boring, milling, grinding, drilling functions are optional.

### Special ordered Parts

Item	Machine model		
	CK61100L	CK61125L	CK61140L
CNC Turning and boring function Parts	Optional; After adding this functional part, deep hole boring machine processing and deep hole turning processing can be realized.		
CNC Turning and milling function Parts	Optional; After adding this functional part, drilling and simple milling can be realized.		
CNC Turning and grinding function Parts	Optional; After adding this functional part, the abrasive belt grinding of the outer circle can be realized.		
Chuck	Standard	Φ1000mm	
	Special ordered Parts	Φ1250 Φ1400mm	
Center Frame	Standard	Φ70-480mm	
	Special ordered Parts	Φ400-700mm	
Turret	Standard	LDB4-157	
	Special ordered Parts	No, special order is available	
Roller	Standard	No, special order is available	

Item	Machine model		
	CK61100L	CK61125L	CK61140L
Max. loading capacity of two centers	6T		
Machine bed width	755mm		
Max.swing diameter over bed	1040mm	1290mm	1440mm
Max.swing diameter over turret	630mm	880mm	1030mm
Max.workpiece Length	1000-16000mm((More than 6m is driven by rack and pinion)		
Headstock Parameters			
Spindle front bearing diameter	200mm		
Spindle bore diameter	Φ130mm		
Spindle taper	Metric 140#		
Spindle speed series	Hydraulic four gear, stepless speed regulation within gear		
Spindle rotary speed range	5-500r/Min		
Main motor power	37kW		
Infeed system parameters			
SIEMENS CNC control system			
Longitudinal servo motor torque	30N.M		
Transverse servo motor torque	28N.M		
FANUC CNC system			
Longitudinal servo motor torque	30N.M		
Transverse servo motor torque	22N.M		
Cutter bar cross section	40×40		
Turret workstation quantity	Vertical type 4 station		
Cutter disc Repeated positioning accuracy	0.01mm		
Longitudinal Rapid feed rate	4000mm/Min		
Transverse Rapid feed rate	4000mm/Min		
Longitudinal feed speed	1-2000mm/Min		
Transverse Infeed speed	1-2000mm/Min		
Tailstock parameters			
Tailstock sleeve diameter	160mm		
Tailstock sleeve taper	Morse 6#		
Tailstock sleeve stroke	300mm		

## CK611-M series CNC large horizontal lathe



### Features

CK611- M series machine are large horizontal flat bed CNC lathes, adopt SIEMENS or FANUC CNC system, and full digital AC servo system. The main drive for turning is automatic four-speed stepless speed change, the main motor is an AC spindle motor, and two linkage control axes are used. The Z-axis and X-axis of the machine with a center distance of 1-5M adopt ball screw pair and AC servo motor to realize longitudinal and lateral movement; the Z-axis of the machine with a center distance of more than 6M adopts a rack and pinion and a grating ruler, and the X-axis adopts a ball screw pair. Add AC servo motor to achieve longitudinal and lateral movement, with good positioning and repeat positioning accuracy.

The main components and structure of the machine are optimized and designed, and the stability of the whole machine is excellent. Applicable to energy, chemical industry, light industry, electromechanical, paper-making, automobile industry and other industries. It has the characteristics of high precision, high power, high rigidity and high degree of automation. It is suitable for processing shaft, sleeve and disc parts. Such as turning inner and outer cylindrical surfaces, conical surfaces, arc surfaces, end surfaces, grooving, chamfering, threading, etc., the process has strong adaptability, high processing efficiency, simple operation, and comprehensive functions, which can reduce the need for skilled workers.

Notice: boring, milling, grinding, drilling functions are optional.

### Special ordered Parts

Item	Machine Model			
	CK61125M/40M	CK61160M	CK61180M/200M	
CNC Turning and boring function Parts	Optional; After adding this functional part, deep hole boring machine processing and deep hole turning processing can be realized.			
CNC Turning and milling function Parts	Optional; After adding this functional part, drilling and simple milling can be realized.			
CNC Turning and grinding function Parts	Optional; After adding this functional part, the abrasive belt grinding of the outer circle can be realized.			
Chuck	Standard	Φ1250mm	Φ1250mm	Φ1600mm
	Special ordered Parts	Φ1400 Φ1600 Φ1800mm		
Center Frame	Standard	Φ70-480mm		Φ400-700mm
	Special ordered Parts	Φ400-700mm		Φ120-480mm
Turret	Standard	LDB4-C61125		
	Special ordered Parts	Optional according to user requirements		
Roller	Standard	No, special order is available		

Item	Machine model				
	CK61125M	CK61140M	CK61160M	CK61180M	CK61200M
Max . loading capacity of two centers	10T				
Machine bed width	1100mm				
Max.swing diameter over bed	1290mm	1440mm	1640mm	1840mm	2040mm
Max.swing diameter over turret	900mm	1050mm	1250mm	1450mm	1650mm
Max.workpiece Length	1000-16000mm				
Headstock Parameters					
Spindle front bearing diameter	200mm			220mm	
Spindle bore diameter	130mm				
Spindle taper	Metric 140#				
Spindle speed series	Hydraulic four gear, stepless speed regulation within gear				
Spindle rotary speed range	5-500r/Min				
Main motor power	37kW				
Infeed system parameters					
SIEMENS CNC control system					
Longitudinal servo motor torque	30N.M				
Transverse servo motor torque	28N.M				
FANUC CNC system					
Longitudinal servo motor torque	30N.M				
Transverse servo motor torque	22N.M				
Cutter bar cross section	40×40				
Turret workstation quantity	Vertical type 4 station				
Cutter disc Repeated positioning accuracy	0.01mm				
Longitudinal Rapid feed rate	4000mm/Min				
Transverse Rapid feed rate	4000mm/Min				
Longitudinal feed speed	1-2000mm/Min				
Transverse Infeed speed	1-2000mm/Min				
Tailstock parameters					
Tailstock sleeve diameter (Mandrel rotation)	260mm				
Tailstock sleeve taper	Metric 80#				
Tailstock sleeve stroke	300mm				

## CK611-H series CNC large horizontal lathe



### Features

CK611-H series machine is a large horizontal flat bed lathe. The main drive of turning is hydraulic four gear, stepless speed regulation within the gear, and two linkage control shafts. The x-axis adopts ball screw pair and AC servo motor to realize horizontal movement, the z-axis adopts ball screw transmission for 1-5m, and the inclined rack and AC servo motor for vertical movement for more than 6m. The machine bed is of Flat-V structure, cast with high-strength resin sand, and the bed surface is subject to medium frequency quenching treatment. The hardness is HRC50, and the quenching depth is deep.

The machine body has strong rigidity, large bearing capacity and good stability. The carriage is pasted with plastic. Since the material contains lubricating elements, the difference between the dynamic and static friction coefficients is small, which greatly reduces the friction between the carriage and the guide rail surface of the bed and prevents creeping. The machine bed is cast with an arched door for backward chip removal, and the chips are directly discharged to the chip receiving tray, which is convenient for chip removal and cleaning.

Notice: boring, milling, grinding, drilling functions are optional.

### Special ordered Parts

Item	Machine Model			
	CK61125H/40H	CK61160H	CK61180H/200H	
CNC Turning and boring function Parts	Optional; After adding this functional part, deep hole boring machine processing and deep hole turning processing can be realized.			
CNC Turning and milling function Parts	Optional; After adding this functional part, drilling and simple milling can be realized.			
CNC Turning and grinding function Parts	Optional; After adding this functional part, the abrasive belt grinding of the outer circle can be realized.			
Chuck	Standard	Φ1250mm	Φ1400mm	Φ1600mm
	Special ordered Parts	Φ1400 Φ1600 Φ1800mm		
Center Frame	Standard	Φ70-480mm		Φ400-700mm
	Special ordered Parts	Φ400-700mm		Φ120-480mm
Turret	Standard	LDB4-C61125		
	Special ordered Parts	Optional according to user requirements		
Roller	Standard	No, special order is available		

Item	Machine model				
	CK61125H	CK61140H	CK61160H	CK61180H	CK61200H
Max. loading capacity of two centers	16T				
Machine bed width	1100mm				
Max.swing diameter over bed	1290mm	1440mm	1640mm	1840mm	2040mm
Max.swing diameter over turret	900mm	1050mm	1250mm	1450mm	1650mm
Max.workpiece Length	1000-16000mm				
Headstock Parameters					
Spindle front bearing diameter	240mm			240mm	
Spindle bore diameter	130mm				
Spindle taper	Metric 140#				
Spindle speed series	Hydraulic four gear, stepless speed regulation within gear				
Spindle rotary speed range	5-500r/Min				
Main motor power	45kW				
Infeed system parameters					
SIEMENS CNC control system					
Longitudinal servo motor torque	30N.M				
Transverse servo motor torque	28N.M				
FANUC CNC system					
Longitudinal servo motor torque	30N.M				
Transverse servo motor torque	22N.M				
Cutter bar cross section	40×40				
Turret workstation quantity	Vertical type 4 station				
Cutter disc Repeated positioning accuracy	0.01mm				
Longitudinal Rapid feed rate	4000mm/Min				
Transverse Rapid feed rate	4000mm/Min				
Longitudinal feed speed	1-2000mm/Min				
Transverse Infeed speed	1-2000mm/Min				
Tailstock parameters					
Tailstock sleeve diameter (Mandrel rotation)	260mm				
Tailstock sleeve taper	Metric 80#				
Tailstock sleeve stroke	300mm				

## CK611-T series CNC heavy duty lathe



### Features

CK611-T series machine tools are heavy-duty horizontal flat-bed CNC lathes, which can adopt CNC systems such as SIEMENS/ FANUC/ KND/GSK, and all-digital AC servo system. Turning main drive manual four-speed stepless speed change, the main motor is DC motor or AC servo motor, two linkage control. The Z-axis and X-axis of the machine tool with a center distance of 1-5M use a ball screw pair and an AC servo motor to achieve longitudinal and lateral movement, with good positioning and repeated positioning accuracy.

The main functions of the machine: The main components and structures have been optimized and designed, and the stability and performance of the whole machine are excellent. Applicable to energy, chemical industry, light industry, electromechanical, papermaking, automobile industry and other industries. It has the characteristics of high precision, high power, high rigidity and high degree of automation.

It is suitable for processing shaft, sleeve and disc parts. Such as turning inner and outer cylindrical surfaces, conical surfaces, arc surfaces, end surfaces, grooving, chamfering, threading, etc., the process has strong adaptability, high processing efficiency, simple operation, and comprehensive functions, which can reduce the need for skilled workers. requirements, it is an ideal machining equipment. Notice: boring, milling, grinding, drilling functions are optional.

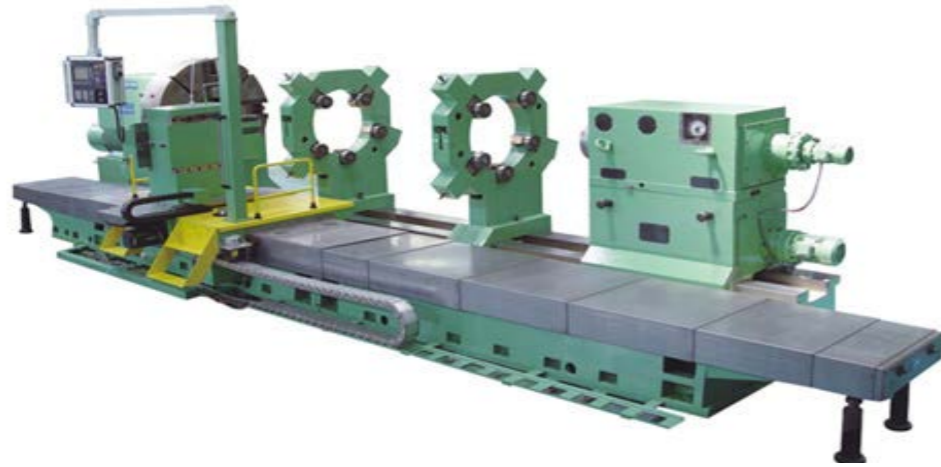
Notice: boring, milling, grinding, drilling functions are optional.

### Special ordered Parts

Item	Machine model			
CNC Turning and boring function Parts	Optional; After adding this functional part, deep hole boring machine processing and deep hole turning processing can be realized.			
CNC Turning and milling function Parts	Optional; After adding this functional part, drilling and simple milling can be realized.			
CNC Turning and grinding function Parts	Optional; After adding this functional part, the abrasive belt grinding of the outer circle can be realized.			
		CK61125N/40N	CK61160N	CK61180N/ CK61200N
Chuck	Standard	Φ1250mm	Φ1400mm	Φ1600mm
Special order parts		Φ1400 Φ1600 Φ1800 Φ2000 Mm		
Center frame	Standard	Φ120-470mm		Φ400-700mm
Special order		Φ400-700mm		Φ120-470mm
Turret	Standard	LDB4-C61125		
Special order parts		Optional according to user requirements		
Roller	Standard	No, special order is available		

Item	Machine model				
	CK61125T	CK61140T	CK61160T	CK61180T	CK61200T
Max . loading capacity of two centers	25T				
Max . loading capacity of two centers	1100				
Max.swing diameter over bed	1300	1500	1700	1900	2100
Max.swing diameter over turret	850	1050	1250	1450	1650
Max.workpiece Length	1000-16000				
Headstock Parameters					
Spindle front bearing diameter	280				
Spindle bore diameter	100				
Spindle taper	Metric 140#				
Spindle speed series	Hydraulic four gear, stepless speed regulation within gear				
Spindle rotary speed range	2-200r/Min				
Main motor power	55kW				
Infeed system parameters					
SIEMENS CNC control system					
Longitudinal servo motor torque	50N.M				
Transverse servo motor torque	30N.M				
FANUC CNC system					
Longitudinal servo motor torque	50N.M				
Transverse servo motor torque	40N.M				
Cutter bar cross section	60×60				
Turret workstation quantity	Vertical type 4 station				
Cutter disc Repeated positioning accuracy	0.01mm				
Longitudinal Rapid feed rate	4000mm/Min				
Transverse Rapid feed rate	4000mm/Min				
Longitudinal feed speed	1-2000mm/Min				
Transverse Infeed speed	1-2000mm/Min				
Tailstock parameters					
Tailstock sleeve diameter	280mm				
Tailstock sleeve taper	1:7				
Tailstock sleeve stroke	300mm				

## CK611-F series CNC heavy duty lathe



### Features

This series of heavy-duty horizontal lathes fully absorbs the international contemporary advanced technology, adopts the international advanced design methods and manufacturing technologies, such as three-dimensional modeling, simulation design, finite element analysis, etc. It is a mechatronic machine tool product integrating multi-disciplinary and multi-category precision manufacturing technologies such as electrical, automatic control, hydraulic control and modern mechanical design.

This series of machine tools has excellent structural performance. The machine tools have the characteristics of high dynamic and static rigidity, long service life, high processing efficiency, safe and reliable functions, convenient operation and beautiful appearance.

1. The main shaft of the spindle box is a through-shaft structure, and the main shaft is supported by high-precision double-row cylindrical roller bearings, with high precision and good stability.

2. The main drive is driven by AC spindle servo motor or DC motor, with two mechanical gears, stepless speed regulation within the gear, wide speed regulation range and good adaptability.

3. The guide rail of the bed adopts the overall three guide rails or the whole four guide rails, and adopts the fine grinding processing method. The main guide rail surface of the bed adopts the intermediate frequency quenching treatment, and the hardness can reach HRC50.

4. The tailstock is of upper and lower split structure, and the mandrel in the sleeve adopts double row short cylindrical roller bearings with high precision and adjustable radial clearance; the movement of the sleeve and tailstock is motorized and equipped with a force measuring device.

5. The tool holder adopts ball screw horizontally, and adopts high-precision rack and double-toothed rod backlash-elimination structure vertically, which improves the transmission accuracy of the tool holder.

6. The machine tool is equipped with a walking platform and a hanging button station, which is easy to operate.

7. The range and quantity of open and closed steady rests can be configured according to user requirements.

8. This series of machine tools adopts Siemens 828D system. Other CNC systems can also be selected by the user.

9. Double tool rests, milling and boring devices, grinding devices, iron chip conveyors, tool cooling systems, etc. can be provided according to user requirements.

Notice: boring, milling, grinding, drilling functions are optional.

Item	Machine model			
	CK61125F	CK61160F	CK61200F	CK61250F
Max.swing diameter over bed	1250mm	1600mm	2000mm	2500mm
Max.swing diameter over turret	1000mm	1250mm	1600mm	2000mm
Max.workpiece length between two centers	4-20mm	4-20mm	4-20mm	4-20mm
Max. workpiece machining weight between two centers	40T			
Machine guide rail type	Integral three-guide rail or integral four guide-rail			
Machine bed guide rail width	1615mm	1615mm	1850mm	2050mm
Disc diameter	1250mm	1600mm	1600mm	2000mm
Spindle rotary speed range	0.8-160r/Min	0.8-160r/Min	0.8-160r/Min	0.8-160r/Min
Spindle gear speed	Mechanical two gears, stepless in the gear			
Tailstock sleeve stroke	300mm			
Turret type	Frame type turret, vertical four-station electric turret, vertical four-station manual turret			
Turret infeed amount range	0.1-1000mm/min			
Turret rapid traverse rate	4000mm/min			
Turret feed stage	Stepless			
Main motor power	75kW/90kW			
CNC system	Siemens 828D or other CNC control system			



## CK84-series CNC roll lathe



### ● Features

The CNC roll lathe adopts three-way structure has the characteristics of high rigidity, precision stability and retention. The design of components is modular, with a high degree of standardization, good interchangeability, and stable quality. The machine tool is advanced in design, reliable in performance, and easy to operate. Easy to maintain. At the same time, the machine is imported and digested by our company of advanced European design and process technology. The whole machine has a high rigidity frame structure design, so it not only has the ability of strong cutting, but also can meet the processing of precision parts. This series of CNC roll lathes is a mechanical processing equipment that integrates advanced technologies such as machinery, electricity, and hydraulics, and is mainly used for the processing of planes, curved surfaces and holes. It is widely used in the rough and finish machining of various plates, boxes, racks and other complex parts in the machinery manufacturing industry. Three-axis linkage of longitudinal motion (XK-D axis). Multi-process processing such as milling, boring, reaming, rigid tapping, reaming and countersinking can be performed. This machine tool is mainly used for the processing of flat rolls and hole-shaped rolls, and has rotary parts such as outer circle, end face, groove, and rotary surface.

Item	Machine Model		
	CK8465	CK8480	CK84100
Max.swing diameter	Φ650mm	Φ800mm	Φ1000mm
Max.turning diameter	Φ650mm	Φ200~Φ800mm	Φ1000mm
Max.workpiece length	3300mm/5200mm	3300mm/5200mm	5000mm/6000mm/8000mm
Max.turning length	3000mm/5000mm	3000mm/5000mm	5000mm/6000mm/8000mm
Machine guide rail width	1100mm	1100mm	1350mm
Bed Rail Form	Four guide rails	Four guide rails	Four guide rails
Max, Machine loading weight	8T	8T	20T
X axis stroke	425mm	425mm	500mm
Z axis stroke	3000mm/5000mm	3000mm/5000mm	5050mm/6050mm/8050mm
X/Z axis movement speed	10000mm/8000mm	10000mm/8000mm	3000/6000mm
X/Z axis minimum feed amount	0.001mm	0.001mm	0.001mm
Spindle rotary speed (stepless)	10-300rpm	10-300rpm	4-200rpm
Spindle top code	A2-15	A2-15	A2-15 or 1 :30 Long Cone
Spindle bore	Φ130	Φ130	Φ100
Spindle front end taper	Metric140	Metric140	Metric140
Spindle top taper	MT-6	MT-6	MT-6
Chuck	Φ630mm	Φ800mm	Φ1000mm
Cutter shank section &mm	40×40	40×40	50× 50
Tailstock sleeve diameter	Φ260mm	Φ260mm	Φ300mm
Tailstock sleeve stroke	300mm	300mm	300mm
Tailstock sleeve cone taper	MT-6	MT-6	Φ100(1 :7)
Spindle power	AC30 KW	AC45 KW	AC75 KW
Working accuracy	IT6~IT7	IT6~IT7	IT6~IT7
Workpiece surface roughness	Ra0.8	Ra0.8	Ra0.8

## CK84-series CNC heavy duty roll lathe



### Features

The CNC roll lathe adopts three-way structure has the characteristics of high rigidity, precision stability and retention. The design of components is modular, with a high degree of standardization, good interchangeability, and stable quality. The machine tool is advanced in design, reliable in performance, and easy to operate. Easy to maintain. At the same time, the machine is imported and digested by our company of advanced European design and process technology. The whole machine has a high rigidity frame structure design, so it not only has the ability of strong cutting, but also can meet the processing of precision parts. This series of CNC roll lathes is a mechanical processing equipment that integrates advanced technologies such as machinery, electricity, and hydraulics, and is mainly used for the processing of planes, curved surfaces and holes. It is widely used in the rough and finish machining of various plates, boxes, racks and other complex parts in the machinery manufacturing industry. Three-axis linkage of longitudinal motion (XK-D axis). Multi-process processing such as milling, boring, reaming, rigid tapping, reaming and countersinking can be performed. This machine tool is mainly used for the processing of flat rolls and hole-shaped rolls, and has rotary parts such as outer circle, end face, groove, and rotary surface.

Item	Machine Model		
	CK84125	CK84140	CK64160
Max.swing diameter	Φ1250mm	Φ1400mm	Φ1600mm
Max.turning diameter	Φ200mm~1250mm	Φ500mm~1400mm	Φ500mm~1600mm
Max.workpiece length	5000mm/6000mm/8000mm	5200mm/6200mm/7000mm	5000mm/6000mm/8000mm
Max.turning length	5000mm/6000mm/8000mm	5000mm/6000mm/7000mm	5000mm/6000mm/8000mm
Machine guide rail width	1450mm	1750mm	1750mm
Bed Rail Form	Four guide rails	Four guide rails,Z axis rail,X-axis hard rail	Four guide rails
Max, Machine loading weight	20T	40T	50 or 63T
X axis stroke	500mm	600mm	700mm
Z axis stroke	5050mm/6050mm/8050mm	5000mm/6000mm/7000mm	5050mm/6050mm/8050mm
X/Z axis movement speed	3000/6000mm	4000/6000mm	3000/6000mm
X/Z axis minimum feed amount	0.001mm	0.001mm	0.001mm
Spindle rotary speed (stepless)	4-200rpm	4-110rpm	4-200rpm
Spindle top code	1:30 long cone	1:30 long cone	1:30 long cone
Spindle bore	φ100	φ130	φ100
Spindle front end taper	Metric140	196.869(1;4)	Metric140
Spindle top taper	1;4 short cone	1;4 short cone	1;4 short cone
Chuck	Φ1000mm	Φ1000mm Heavy duty	Φ1000mm
Cutter shank section &mm	50×50	60×60	50×50
Tailstock sleeve diameter	Φ280mm	Φ400mm	Φ500mm
Tailstock sleeve stroke	300mm	300mm	300mm
Tailstock sleeve cone taper	AC75 KW	AC90 KW	AC110 KW
Spindle power	IT6~IT7	IT6~IT7	IT6~IT7
Working accuracy	Ra0.8	Ra0.8	Ra0.8



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SHANDONG TONGYUAN HEAVY INDUSTRY MACHINERY CO.,LTD

地址：山东省德州市幸福大道天津鲁冀产业园

电话：0534-7766069 +8615165964868

邮箱：[susan@tongyuanlathe.com](mailto:susan@tongyuanlathe.com)

网址：[www.tylathe.com](http://www.tylathe.com)