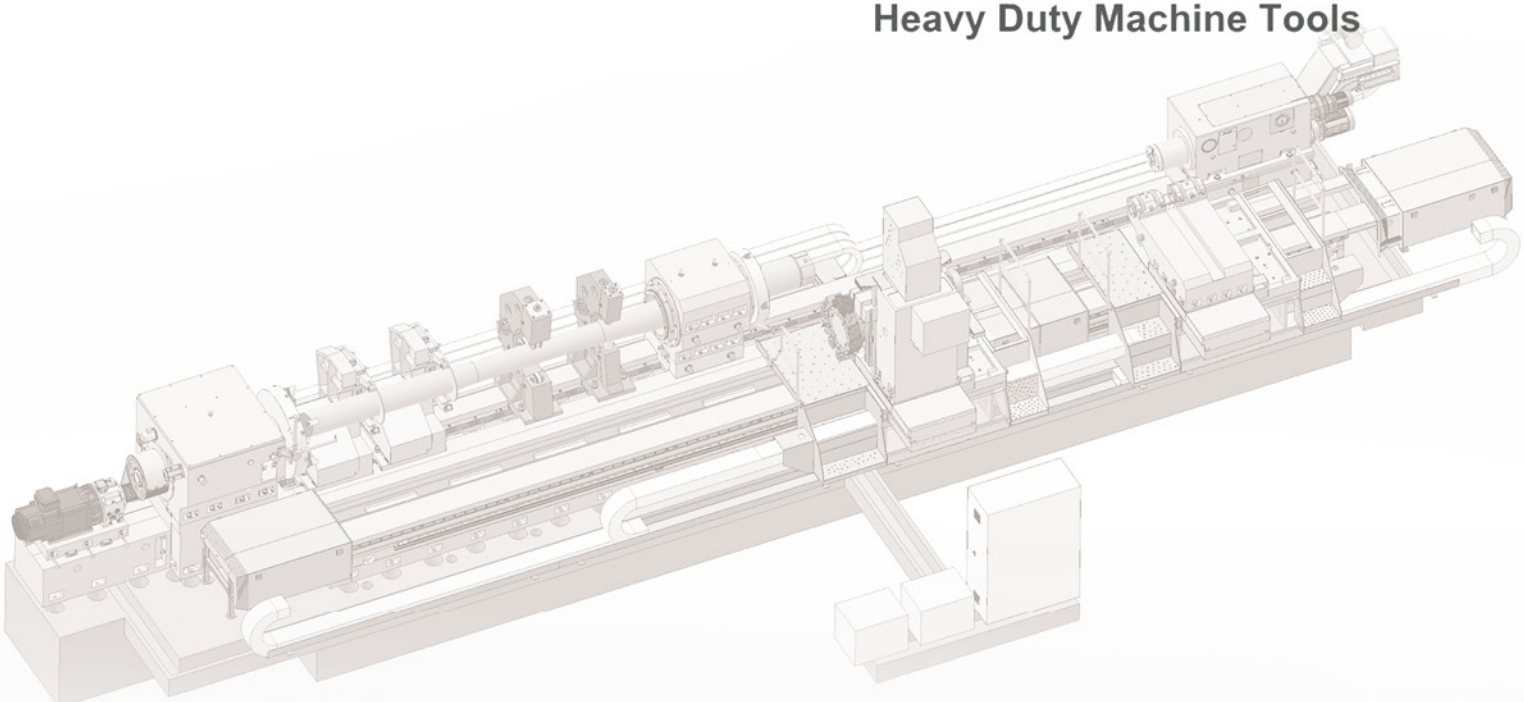
NOVATECH

Heavy Duty Machine Tools



[2024版]

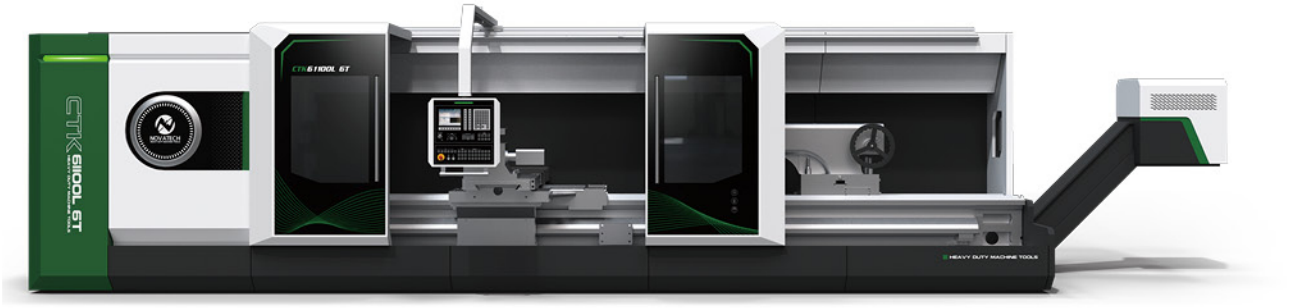
诺瓦特数控机床制造（山东）有限公司

Novatech CNC Heavy Duty Machine Tool （Shandong) Co.，Ltd

CONTENTS

Product Catalogue

CTK611–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 lateralmovement; 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.

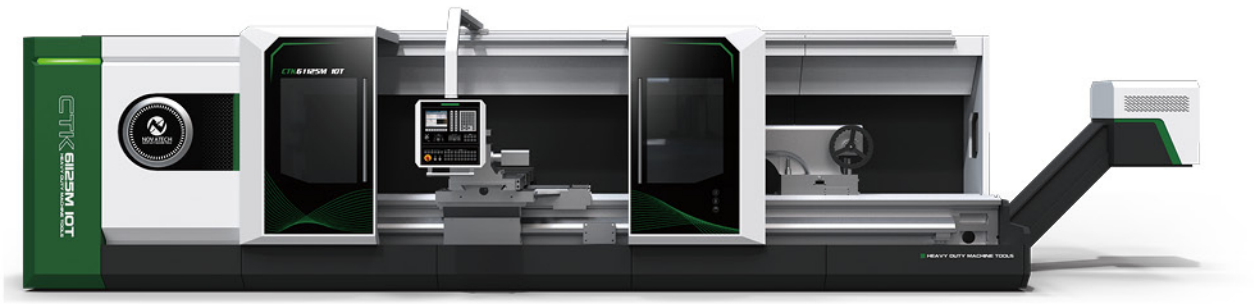
Notice:boring,milling,grinding,drilling functions are optional.

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		

CTK611–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. requirements, it is an ideal machining equipment.

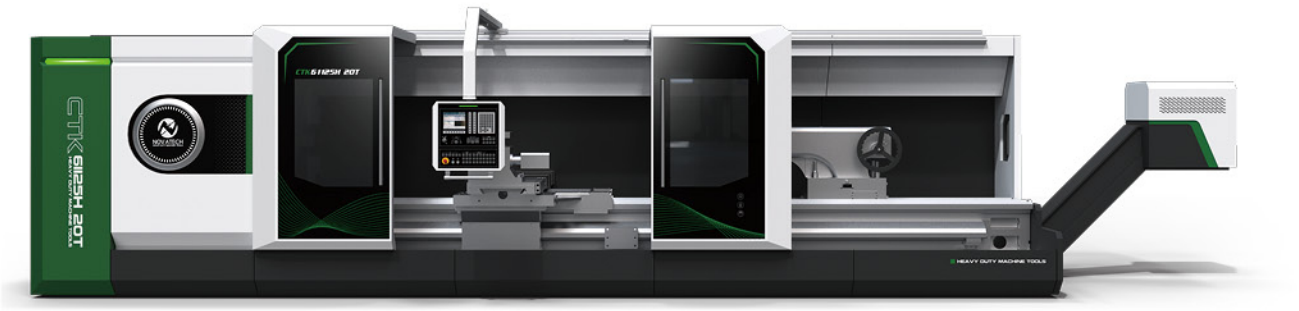
Notice:boring,milling,grinding,drilling functions are optional.

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				

CTK611-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.

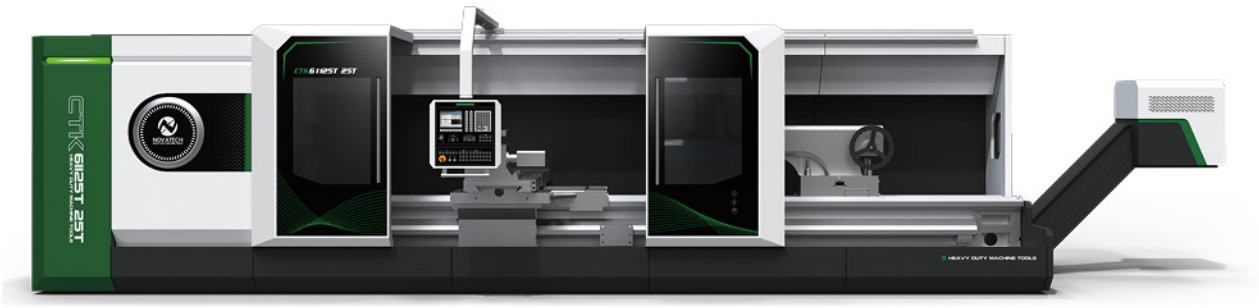
Notice:boring,milling,grinding,drilling functions are optional.

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				

CTK611–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.

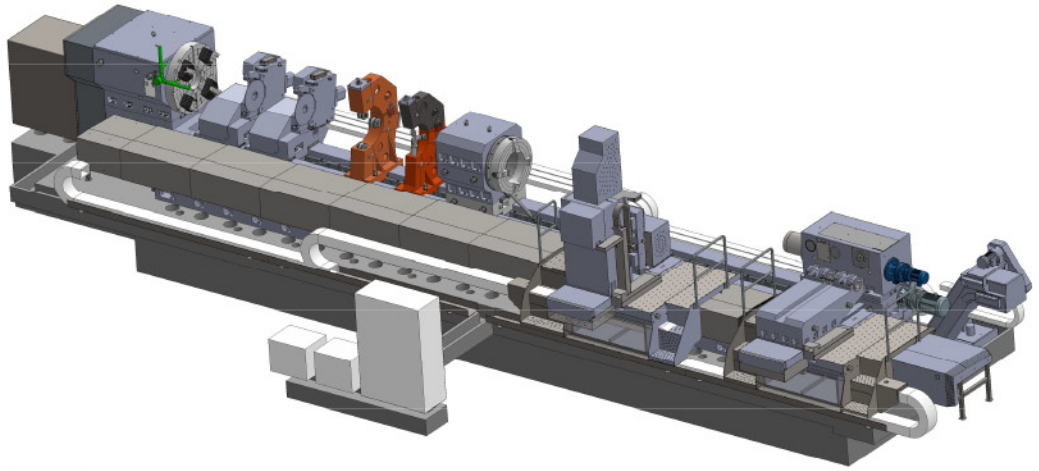
Notice:boring,milling,grinding,drilling functions are optional.

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 turre	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				

CTK611-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 CNCroll athe adopts three-way structure has the characteristics of high rigidity, precision stability and retention.The design of components ismodular, 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 Europeandesin and process technology. The whole machine has a highrigidity framestructure design, so it not only has the ability of strong cutting, but also canmeet the processing of precision parts. This series of CNC roll lathes is a mechanical processing equipment that integrates advanced technologies such as machinery, electicty, andhydraulics,and is mainly used for the processing of planes,curved suraces and holes. It is widely used in the rough and fnish machining of various plates, boxes,racks and other complex parts in the machinery manufacturing industy. Three-axis linkageof longitudinal motion (XK-Dxis). Mult-process processing such as miling, boring, rilling,rigid tapping,reaming and countersinking can be performed.Tnis machine too is mainly used for theprocessing of fat rolsand hole-shaped rolls, and has rotary parts such as outer circle, end foce, 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 or1 :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 CNCroll athe adopts three-way structure has the characteristics of high rigidity, precision stability and retention.The design of components ismodular, 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 Europeandesin and process technology. The whole machine has a highrigidity framestructure design, so it not only has the ability of strong cutting, but also canmeet the processing of precision parts. This series of CNC roll lathes is a mechanical processing equipment that integrates advanced technologies such as machinery, electicty, andhydraulics,and is mainly used for the processing of planes,curved suraces and holes. It is widely used in the rough and fnish machining of various plates, boxes,racks and other complex parts in the machinery manufacturing industy. Three-axis linkageof longitudinal motion (XK-Dxis). Mult-process processing such as miling, boring, rilling,rigid tapping,reaming and countersinking can be performed.Tnis machine too is mainly used for theprocessing of fat rolsand hole-shaped rolls, and has rotary parts such as outer circle, end foce, 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/8000m	5000mm/6000mm/7000m	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	Φ1000mmHeavy 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

QK1327/QK1330/QK1332/QK1335

CNC pipe threading lathe

QK1335X3000

QK1327X3000

STANDARD ACCESSORIES

NC turret 4-station, manual tailstock, automatic lubrication, coolant system, semi-shield

OPTIONAL ACCESSORIES

FANUC, SIMENS, KND and other CNC controller, quick change tool post, hydraulic turret or power turret, pneumatic chuck, hvdraulic chuck, hvdraulic tailstock, full-shield

CNC PIPE THRADING LATHE APPLICATION

This series of CNC pipe thread lathes is mainly used to process internal and external pipe cylinders, tapered metric, and inch pipe threads. It can also be usedas a general CNc lathe to turn the internal and exteral cylindrical surfaces, conical suraces, spherical surfaces, cunved suraces, grooves, and end faces olvarious parts, This series of lathes is suitable for equipment manufacturing enterprises in the petroleum, metalurgy,chemical, water conservancy, geologicalexploration, and other industries, and is used to process pipe threads, dril pipes, drill collars, and casing pipes.

FEATURES

Integral machine bed adopts high stength iron to realize high rigidity and precision;Ultrasonic frequency qunenched guide-ways are hard enogh for good wear-resistance;Carriage and guide way contact surface use Turcite B to maintain accuracyBig spindle bore and double chuck allows clamp and process big diameter pipes;Adopt electric chuck to improve batch processing efficiency with workpieces.

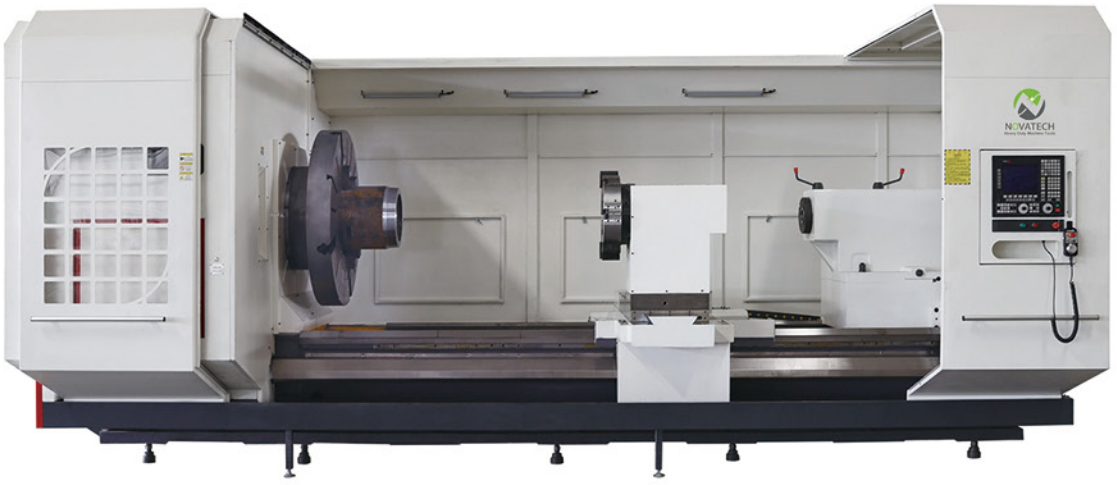
Main technical parameters of QK1327/QK1332/QK1335 CNC pipe threading lathe

Item		Unit	QK1327	QK1330	QK1332	QK1335
Nc system			(Standard equipment):GSK980TC3 (Alternative confguration):FANUC 0i–TF;SIMENS808D;KND K1000Ti; GSK980TDC			
Max dia.swing over bed		mm	800	800	800	
Max dia swng over crass slide		mm	480	480	480	
Max.length of work–piece		mm	1500	1500	1500	
Pipe threading range		mm	Φ70–275	Φ80–295	Φ80–320	
Width of bed		mm	755	755	755	
Spindle bore		mm	280	305	325	
Spindle center height		mm	400	400	400	
Power of spindle motor		mm	15	15	15	
Mode of spindle speed		mm	Two gears.smooth adjustment	Two gears.smooth adjustment	Two gears.smooth adjustment	Two gears.smooth adjustment
Range of spindle speed		r/min	(L):20–100 (H):100–300	(L):20–100 (H):100–300	(L):20–130 (H):100–300	(L):30–130 (H):65–260
Max.traverse of X/Z		mm	X:420 Z:1250	X:420 Z:1250	X:420 Z:1250	X:450 Z:1250
X/Z rapid traverse		mm/min	4000/5000	4000/5000	4000/5000	4000/5000
Tailstock quill	Diameter	mm	100	100	100	100
	Travel	mm	250	250	250	250
	Taper		Morse NO.6	Morse NO.6	Morse NO.6	Morse NO.6
Turret	Model		HAK21300	HAK21300	SLD170A04N	SLD170A04N
	No.of tool stations		Vertical four–station	Vertical four–station	Vertical four–station	Vertical four–station
	Dimension	mm	32x32	32x32	32x32	32x32
	Turret indexing time	s	2.6	2.6	2.6	2.6
Chuck			K72–780 four jaw chuck	K72–780 four jaw chuck	K72–780 four jaw chuck	K72–780 four jaw chuck
Positioning accuracy		mm	0.020	0.020	0.020	0.020
Repositioning accuracy		mm	0.01	0.01	0.01	0.01
Overall dimensions(L*V*H)		mm	4900x2200x2300	4900x2200x2300	4900x2200x2300	4900x2200x2300
Machine weight		T	8	9	10	12

* Please Note:All parameters are subject to change without prior notice.

QK1343/QK1353/QK1363

CNC pipe threading lathe



STANDARD ACCESSORIES

NC turret 4–station, manual tailstock, automatic lubrication, coolant system, semi–shield

OPTIONAL ACCESSORIES

FANUC, SIMENS, KND and other CNC controller, quick change tool post, hydraulic turret or power turret, pneumatic chuck, hvdraulic chuck, hvdraulic tailstock, full–shield

CNC PIPE THRADING LATHE APPLICATION

This seres CNC pipe threading lathe is meainly designed for processing interal and external pipe threads,including metricinch and taper threads. As well ashaving allthe common functions of normal CNc lathe, such as processing inner and outer cylindical surface, conical surface,spherical surface, curved surfacegroove, end face, etc. This senies lahe is widely used in industies including petroleum exploiting, minerals mining, chemical piping and geological prospectingit is high–effciency equipment in processing and repairing driling pipe, driling rod, thread coup–ling and son on.

FEATURES

Integral machine bed adopts high stength iron to realize high rigidity and precision;
Ultrasonic frequency qunenched guide–ways are hard enogh for good wear–resistance;
Carriage and guide way contact surface use Turcite B to maintain accuracy;
Big spindle bore and double chuck allows clamp and process big diameter pipes;
Adopt electric chuck to improve batch processing efficiency with workpieces.

QK1343X1500

QK1353X1500

Main technical parameters of QK1343/QK1353/QK1363 CNC pipe threading lathe

Item		Unit	QK1343	QK1353	QK1363
Nc system			(Standard equipment):GSK980TDi (Alternative confguration):FANUC 0i–TF;SIMENS808D;KND K1000Ti		
Max dia.swing over bed		mm	1000	1250	1400
Max dia swng over crass slide		mm	610	860	950
Max.length of work–piece		mm	1500	1500	1500
Pipe threading range		mm	Φ260–430	Φ350–525	Φ450–625
Width of bed		mm	755	755	755
Spindle bore		mm	440	540	640
Spindle center height		mm	500	625	700
Power of spindle motor		mm	22	30	30
Mode of spindle speed		mm	Two gears,smooth adjustment	Two gears,smooth adjustment	Two gears,smooth adjustment
Range of spindle speed		r/min	(L):23–90 (H):80–260	(L):20–80 (H):55–220	(L):15–65 (H):65–120
Max.traverse of X/Z		mm	X:550 Z:1250	X:650 Z:1250	X:750 Z:1250
X/Z rapid traverse		mm/min	4000/5000	4000/5000	4000/5000
Tailstock quill	Diameter	mm	140	160/260	160/260
	Travel	mm	300	300	300
	Taper		Morse NO.6	Morse NO.6	Morse NO.6
Turret	Model		SLD170A04N	SLD170A04N	SLD170A04N
	No.of tool stations		Vertical four–station	Vertical four–station	Vertical four–station
	Dimension	mm	32x32	32x32	32x32
	Turret indexing time	s	5.6	5.6	5.6
Chuck			K66–100 four jaw chuck	four jaw electric chuck	four jaw electric chuck
Positioning accuracy		mm	0.020	0.040	0.040
Repositioning accuracy		mm	0.01	0.02	0.02
Overall dimensions(L*V*H)		mm	4900x2200x2300	4900x2300x2350	4900x2300x2350
Machine weight		T	14	18	19

* Please Note:All parameters are subject to change without prior notice.

CDK6150/CDK6160

CNC pipe threading lathe

STANDARD ACCESSORIES

NC turret 4–station, 3–jaw chuck, manual tailstock, automatic lubrication, coolant system, smi–shield

OPTIONAL ACCESSORIES

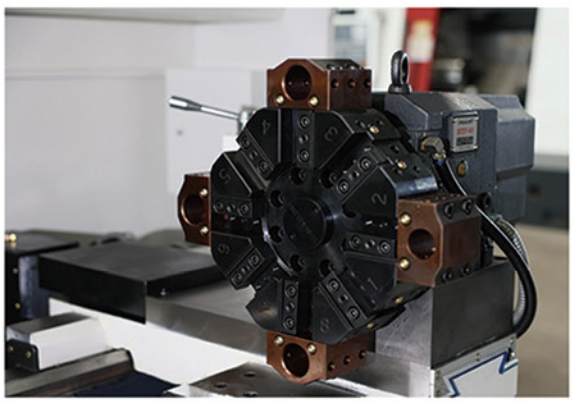
FANUC, SIMENS, KND and other CNC controller, hydraulic turret or power turret, pneumatic chuck or hydraulic chuck,hydraulic tailstock, full–shield

CNC PIPE THRADING LATHE APPLICATION

This senes of CNc lathes can adoot varous CNC svstems to achieve automatic conrol. Widely used, capable of undertaking vanous turing tasks. such as turning various partsEnd faces,inner and outer cylindricalsurfaces, conicalsurfaces,spherical suraces, curved surfaces, grooves, metric and inch threads, taper threads, etc, especialy suitable forturning various inner and outer pipe threads.

FEATURES

Integral machine bed adopts high stength iron to realize high rigidity and precision;
Ultrasonic frequency qunenched guide–ways are hard enogh for good wear–resistance;
Carriage and guide way contact surface use Turcite B to maintain accuracy.



Main technical parameters of CDK6150/CDK6160 Series CNC Spindle Bore lathe

Item		Unit	CDK6150 (Φ110)	CDK6150 (Φ140)	CDK6150 (Φ160)	CDK6150 (Φ170)	CDK6160 (Φ200)	CDK6160 (Φ225)
Nc system			(Standard equipment):GSK980TC3 (Alternative confguration):FANUC 0i-TF;SIMENS808D;KND K1000Ti;GSK980TDC					
Max dia.swing over bed		mm	500	500	500	500	600	600
Max dia swng over crass slide		mm	270	270	270	270	370	370
Max.length of work-piece		mm	1000	1000	1000	1000	1000	1000
Width of bed		mm	400	400	400	400	400	400
Spindle bore		mm	110	140	160	170	200	225
Power of spindle motor		mm	7.5	7.5	7.5	7.5	7.5	7.5
Mode of spindle speed		mm	Stepleess Frequency Speef Adjustment					
Range of spindle speed		r/min	150-1000	70-800	70-700	70-700	70-500	70-500
Max.traverse of X/Z		mm	X:310 Z:800	X:310 Z:800	X:310 Z:800	X:310 Z:800	X:310 Z:800	X:310 Z:800
X/Z rapid traverse		mm/min	4000/5000	4000/5000	4000/5000	4000/5000	4000/5000	4000/5000
Tailstock quill	Diameter	mm	80	80	80	80	80	80
	Travel	mm	200	200	200	200	200	200
	Taper		Morse NO.5					
Turret	Model		HAK-21192	HAK-21192	HAK-21192	HAK-21192	HAK-21192	HAK-21192
	No.of tool stations			Vertical four-station				
	Dimension	mm	25x25	25x25	25x25	25x25	25x25	25x25
	Turret indexing time	s	2.6	2.6	2.6	2.6	2.6	2.6
Chuck			K11-320 three jaw chuck	K11-380 three jaw chuck	K11-400 three jaw chuck	K11-400 three jaw chuck	K11-500 three jaw chuck	K11-500 three jaw chuck
Positioning accuracy		mm	0.020	0.020	0.020	0.020	0.020	0.020
Repositioning accuracy		mm	0.01	0.01	0.01	0.01	0.01	0.01
Overall dimensions(L*V*H)		mm	2800x1750x1800					
Machine weight		T	2.5	2.7	2.9	3.0	3.2	3.4

* Please Note:All parameters are subject to change without prior notice.

CDK6150A/CDK6160A

CNC pipe threading lathe

STANDARD ACCESSORIES

NC turret 4–station, 3–jaw chuck, manual tailstock, automatic lubrication, coolant system, smi–shield

OPTIONAL ACCESSORIES

FANUC, SIMENS, KND and other CNC controller, hydraulic turret or power turret, pneumatic chuck or hydraulic chuck,hydraulic tailstock, full–shield

CNC PIPE THRADING LATHE APPLICATION

This senes lalhe can choose many kinds of contol system to accomplish automatic turing work, such as tuming of the inner bore, end face, cylindrical surface, conical surface, curve surface, groove, metric thread,inch thread and taper thread of workpieces.It is especailly good at turning all kinds of inner thread and out thread of pipes.

FEATURES

Integral machine bed adopts high stength iron to realize high rigidity and precision;
Ultrasonic frequency qunenched guide–ways are hard enogh for good wear–resistance;
Carriage and guide way contact surface use Turcite B to maintain accuracy.

CDK6150X1500

CDK6150X1500

CDK6150X1500

Main technical parameters of CDK6150A/CDK6160A Series CNC Spindle Bore lathe

Item		Unit	CDK6150A (Φ110)	CDK6150A (Φ140)	CDK6150A (Φ160)	CDK6160A (Φ200)	CDK6160A (Φ225)
Nc system			(Standard equipment):GSK980TC3 (Alternative confguration):FANUC 0i–TF;SIMENS808D;KND K1000Ti;GSK980TDC				
Max dia.swing over bed		mm	500	500	500	600	600
Max dia swng over crass slide		mm	270	270	270	370	370
Max.length of work–piece		mm	1000	1000	1000	1000	1000
Width of bed		mm	400	400	400	400	400
Spindle bore		mm	110	140	160	200	225
Power of spindle motor		mm	7.5	7.5	7.5	7.5	7.5
Mode of spindle speed		mm	VF.3 steps	VF.3 steps	VF.3 steps	VF.2 steps	VF.2 steps
Range of spindle speed		r/min	70–800	70–800	70–700	70–500	70–500
Max.traverse of X/Z		mm	X:310 Z:800	X:310 Z:800	X:310 Z:800	X:310 Z:800	X:310 Z:800
X/Z rapid traverse		mm/min	4000/5000	4000/5000	4000/5000	4000/5000	4000/5000
Tailstock quill	Diameter	mm	80	80	80	80	80
	Travel	mm	200	200	200	200	200
	Taper		Morse NO.5				
Turret	Model		HAK–21192	HAK–21192	HAK–21192	HAK–21192	HAK–21192
	No.of tool stations			Vertical four–station			
	Dimension	mm	25x25	25x25	25x25	25x25	25x25
	Turret indexing time	s	2.6	2.6	2.6	2.6	2.6
Chuck			K11–320 three jaw chuck	K11–380 three jaw chuck	K11–400 three jaw chuck	K11–500 three jaw chuck	K11–500 three jaw chuck
Positioning accuracy		mm	0.020	0.020	0.020	0.020	0.020
Repositioning accuracy		mm	0.01	0.01	0.01	0.01	0.01
Overall dimensions(L*V*H)		mm	2800x1750x1800			2800x1750x1800	
Machine weight		T	2.5	2.7	2.9	3.2	3.4

* Please Note:All parameters are subject to change without prior notice.

CK6150/CK6163/CK6180

CNC lathe

STANDARD ACCESSORIES

NC turret 4–station, 3–jaw chuck, manual tailstock, automatic lubrication, coolant system, smi–shield

OPTIONAL ACCESSORIES

FANUC, SIMENS, KND and other CNC controller, hydraulic turret or power turret, pneumatic chuck or hydraulic chuck,hydraulic tailstock, full–shield

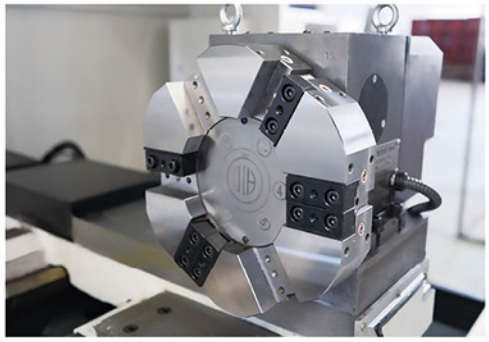
CNC PIPE THRADING LATHE APPLICATION

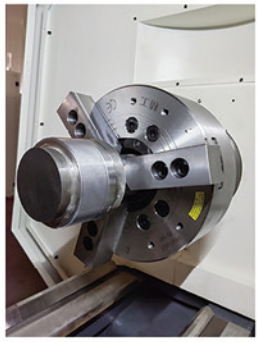
This senes CNC latne is an economic machine tool which capables of rouoh machining and finish machining with mechanical workoeces. Its main characters such as reliable stucure.easy operating, economical and practical, with comprehensive control system meet the performance needs of many industies. This series lathe is mainly used for the procesing of the inner bore,end face, cylindrical surface,conical surace,thread of shafts, diskes and rotational parts.It is widely used in automoblie industry and military industry because of its hich efficiency and high precision maching features.

FEATURES

Integral machine bed adopts high stength iron to realize high rigidity and precision;
Ultrasonic frequency qunenched guide–ways are hard enogh for good wear–resistance;
Carriage and quide way contact surface use Turcite B to maintain accuracy;
Spindle with three–gear stepless speed change main transmission system;
Widen machine tool support plate.


液压尾座


6/8工位刀架


液压卡盘

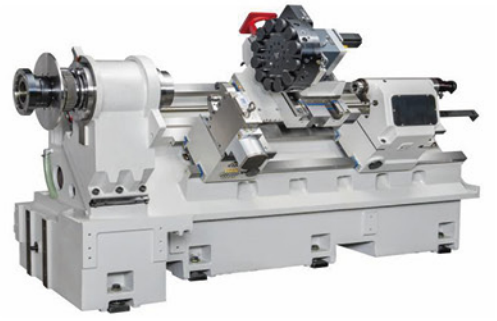
Main technical parameters of CK6150/CK6163/CK6180 Series CNC lathe

Item		Unit	CK6150	CK6163	CK6180
Nc system			(Standard equipment):GSK980TDi (Alternative confguration):FANUC 0i–TF;SIMENS808D;KND K1000Ti		
Max dia.swing over bed		mm	500	630	1400
Max dia swng over crass slide		mm	300	350	950
Max.length of work–piece		mm	1000	1500	1500
Width of bed		mm	400	550	755
Spindle bore		mm	82	105	640
Spindle nose			C8/D8	C11	c
Spindle taper hole			90/1:20	120/1:20	
Power of spindle motor		mm	7.5	11	30
Mode of spindle speed		mm	Three gears,smooth adjustment	Three gears,smooth adjustment	Three gears,smooth adjustment
Range of spindle speed		r/min	(L):10–200 (M):180–500 (H):480–1200	(L):10–200 (M):180–500 (H):480–1200	(L):10–200 (M):180–500 (H):480–1200
X/Z rapid traverse		mm/min	4000/5000	4000/5000	4000/5000
Min.Feeding set unit of X/Z		mm	0.001	0.001	0.001
Tailstock quill	Diameter	mm	75	100	100
	Travel	mm	150	250	250
	Taper		Morse NO.5	Morse NO.5/6	Morse NO.5/6
Turret	Model		HAK–21192	HAK–21240	HAK–21240
	No.of tool stations		Vertical four–station	Vertical four–station	Vertical four–station
	Dimension	mm	25x25	32x32	32x32
	Turret indexing time	s	2.6	4.1	4.1
Chuck			K11–250three jaw chuck	K11–320three jaw chuck	K11–320three jaw chuck
Positioning accuracy		mm	0.020	0.020	0.020
Repositioning accuracy		mm	0.01	0.01	0.01
Overall dimensions(L*V*H)		mm	2670x1600x1650	3650x1880x1880	3650x1880x1880
Machine weight		T	2.5	5	5.2

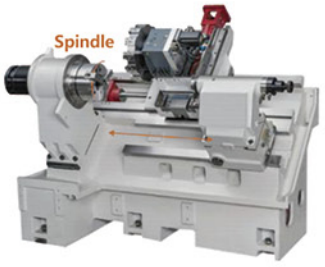
* Please Note:All parameters are subject to change without prior notice.

CNC lathe(with slant bed)

Reliability & High Precision Mechanical Structure



・The lathe bed structure is entirely made of Meehanite cast iron.
The stress is eliminated to ensure long-term stable accuracy.
・45° inclined bed structure provides efficiency chip disposal andcontribute stability by its own cast iron lathe base.
・Ball screws are preloaded to perform a highly accurate positioning,and there are driven directly by high performance servo motor.
・The X, Z, and Y axes all adopt box way structures.
・The B-Axis adopts high-strength box way or linear way.
・KOSON focuses on design and production of box way structure,.
KOSON CNC Lathe are less vibration and better damping.



Advantage

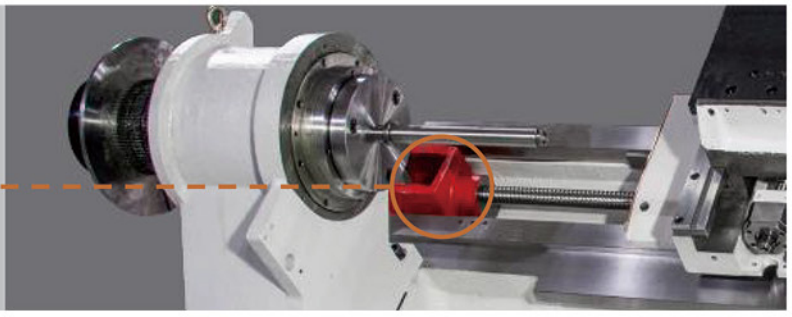
・Compact structure.
・Spacious processing area.
・Meet the processing requirementsof customized parts.
・45° Slant bed, excellent chip removal performance in the processing area.

Advantage

・From single spindle machine with high-speed turret to milling-turing compound center with sub-spindle and C-Axis,Y-Axis,
・KOSON CNC Lathe
provides full machining flexibility

Torque Limiter (Optional)

In the event of a mechanical collision, the torque limiter will loosen to reduce the impact force, ensuring the original accuracy of the machine.



Technical Specifications

	Content	Unit	ATL-i208	ATL-i208M	ATL-i360	ATL-i360M
Turret	Turret Specification	Type	Radial cutter		Radial cutter	
			Servo Turret	BMT Turret	Servo Turret	BMT Turret
	Turret type / Num. of Tools	pcs	12 T	BMT55-12T	12 T	BMT55-12T
Travel	Max. Swing over bed	mm	500	500	700	700
	Distance between Centers	mm	485	485	685	685
	Max. Turning Length Z	mm	400 (450 in Linear way)	350 (380 in Linear way)	600	550
	Max. Turning Diameter	mm	280 (330 in Linear way)	280 (320 in Linear way)	450 (510 in Linear way)	380 (580 in Linear way)
	Bar hole	mm	52 (68)	52 (68)	75 (92)	
System Configuration	FANUC	0i-TF				
	Power tools Motor	KW		2.7		3.7
Spindle	Chuck Diameter	Inch	8 "	8 "	10" / 12 "	10" / 12 "
	Spindle Nose	Type	A2-6	A2-6	A2-8	A2-8
	Spindle Hole	mm	62(76)	62(76)	92(106)	92(106)
	Bear Type	Type	NN3020(3024)	NN3020(3024)	NN3026(3028)	NN3026(3028)
	Spindle Bearing Diameter	mm	100(120)	100(120)	130(140)	130(140)
	Spindle Motor	KW	11-15	11-15	11-15 (Wide area motor)	11-15 (Wide area motor)
	Spindle Speed	rpm	4000	4000	3000 (2500)	3000 (2500)
X-Axis	Travel	mm	180	180	260	260
	Speed	m/min	20 (24 in Linear way)	20 (24 in Linear way)	20 (24 in Linear way)	20 (24 in Linear way)
	Servo Motor	KW	2.5(3.0)	2.5(3.0)	3.0	3.0
	Ball Screw	mm	R32/P10	R32/P10	R32/P10	R32/P10
	Repeat Accuracy		0.003	0.003	0.005	0.005
Z-Axis	Travel	mm	400 (450 in Linear way)	350 (450 in Linear way)	600	600
	Speed	m/min	20 (24 in Linear way)	20 (24 in Linear way)	20 (24 in Linear way)	20 (24 in Linear way)
	Servo Motor	KW	2.5	2.5	3.0	3.0
	Ball Screw	mm	R40/P10	R40/P10	R40/P10	R40/P10
	Repeat Accuracy	mm	0.005	0.005	0.005	0.005
Tail Stock	Control Mode	Type	Programmable	Programmable	Programmable	Programmable
	Quill Diameter	mm	80	80	80	80
	Mohs scale	Type	MT4	MT4	MT5	MT5
X-Axis		Type	Box way (Linear way)	Box way (Linear way)	Box way (Linear way)	Box way (Linear way)
Z-Axis		Type	Box way (Linear way)	Box way (Linear way)	Box way (Linear way)	Box way (Linear way)
Water tank Capacity		Liter	180	180	220	220
Mechanical Size	Floor Area	cm	255*175	255*175	300*185	300*185
	Weight	kg	3400	3600	4500	4700
	Packing Size	cm	291*227*218	291*227*218	336*230*228	336*230*228

Standard Accessories

1	伺服刀塔	Servo turret	11	調整工具及工具箱	Toolbox
2	沖水裝置	Coolant system	12	內外徑刀座	I.D & O.D Lathe tool holders
3	全密閉式外殼鈑金	Fully covered metal guard	13	墊片/噴水塊	Toolshim and spray block
4	夾爪開/關確認裝置	Clamping jaw switch confirmation device	14	地基螺絲及墊塊	Foundation screw and pads
5	油壓壓力確認裝置	Hydraulic pressure confirmation device	15	機器保固一年	1 years machine warranty
6	鐵屑輸送機	Chip conveyor	16	控制器保固兩年	2 years controller warranty
7	主軸單點定位	Single point positioning on spindle	17	回轉缸	Rotary cylinder
8	可程式尾座	Programmable tailstock	18	拉桿	Lathe rod / Pull rod
9	主軸剛性攻牙	Rigid tapping spindle	19	變壓器	Voltage transformer
10	熱交換器	Heat exchanger			

Technical Specifications

	Content	Unit	ATL-i360MY	ATL-i360MC2	ATL-i360MYC2	ATL-i361MY	ATL-i361MC2
Turret	Turret Specification	Type	Radial cutter BMT Turret	Radial cutter BMT Turret	Radial cutter BMT Turret	Radial cutter BMT Turret	Radial cutter BMT Turret
	Turret type / Num. of Tools	pcs	BMT55-12T	BMT55-12T	BMT55-12T	BMT55-12T	BMT55-12T
Travel	Max. Swing over bed	mm	700	700	700	700	700
	Distance between Centers	mm	685			1250	
	Max. Turning Length	mm	500	500	500	1000	1000
	Max. Turning Diameter	mm	380	380	380	380	380
	Bar hole	mm	75 (92)	75 (92)	75 (92)	75 (92)	75 (92)
System Configuration	FANUC	0i-TF					
	Power tools Motor	KW	3.7	3.7	3.7	3.7	3.7
Spindle	Chuck Diameter	Inch	10" / 12 "	10" / 12 "	10" / 12 "	10" / 12 "	10" / 12 "
	Spindle Nose	Type	A2-8	A2-8	A2-8	A2-8	A2-8
	Spindle Hole	mm	92 (106)	92 (106)	92 (106)	92 (106)	92 (106)
	Bear Type	Type	NN3026 (3028)	NN3026 (3028)	NN3026 (3028)	NN3026 (3028)	NN3026 (3028)
	Spindle Bearing Diameter	mm	130 (140)	130 (140)	130 (140)	130 (140)	130 (140)
	Spindle Motor	KW	15-18.5 (wide area motor)	15-18.5 (wide area motor)	15-18.5 (wide area motor)	15-18.5 (wide area motor)	15-18.5 (wide area motor)
	Spindle Speed	rpm	3000 (2500)	3000 (2500)	3000 (2500)	3000 (2500)	3000 (2500)
Secondary Sprindle	Chuck Diameter	Inch		6"	6"		6"
	Spindle Nose	Type		A2-5	A2-5		A2-5
	Spindle Hole	mm		45	45		45
	Spindle Motor	KW		7.5 - 11	7.5 - 11		7.5 - 11
	Spindle Speed	rpm		4500	4500		4500
X-Axis	Travel	mm	200+20	245	200+20	200+20	245
	Speed	m/min	20	20	20	20	20
	Servo Motor	KW	3.0	3.0	3.0	3.0	3.0
	Ball Screw	mm	R32 / P10	R32 / P10	R32 / P10	R32 / P10	R32 / P10
	Repeat Accuracy	Type	0.003	0.003	0.003	0.003	0.003
Z-Axis	Travel	mm	550	550	410	1100	1100
	Speed	m/min	20	20	20	20	20
	Servo Motor	KW	3.0	3.0	3.0	3.0	3.0
	Ball Screw	mm	R40 / P10	R40 / P10	R40 / P10	R40 / P10	R40 / P10
	Repeat Accuracy	mm	0.005	0.005	0.005	0.007	0.007
Y-Axis	Travel	mm	90		90	90	
	Speed	m/min	15		15	15	
	Servo Motor	KW	3.0		3.0	3.0	
	Ball Screw	mm	R32 / P10		R32 / P10	R32 / P10	
	Repeat Accuracy	mm	0.005		0.005	0.005	
B-Axis	Travel	mm		510	510		1100
	Speed	m/min		15	15		15
	Servo Motor	KW		3.0	3.0		3.0
	Ball Screw	mm		R40 / P10	R40 / P10		R40 / P10
	Repeat Accuracy	mm		0.005	0.005		0.005
Tail Stock	Control Mode	Type	Programmable			Programmable	
	Quill Diameter	mm	80			80	
	Mohs scale	Type	MT5			MT5	
X-Axis		Type	Box way (Linear way)	Box way (Linear way)	Box way (Linear way)	Box way (Linear way)	Box way (Linear way)
Y-Axis		Type	Box way (Linear way)	Box way (Linear way)	Box way (Linear way)	Box way (Linear way)	Box way (Linear way)
Z-Axis		Type	Box way (Linear way)		Box way (Linear way)	Box way (Linear way)	
Water tank capacity		Liter	220	220	220	300	300
Mechanical Size	Floor Area	cm	300*185	300*185	300*185	360*175	360*175
	Weight	kg	4800	5100	5500	5900	6200
	Packing Size	cm	336*230*228	336*230*228	336*230*228	400*230*228	400*230*228

Technical Specifications

	Content	UNIT	ATL-i361MYC2	ATL-i362MY	ATL-i362MC2	ATL-i362MYC2	ATL-i363MY	ATL-i363MC2	ATL-i363MYC2
Turret	Turret Specification	TYPE	Radial cutter	Radial cutter	Radial cutter	Radial cutter	Radial cutter	Radial cutter	Radial cutter
			BMT Turret	BMT Turret	BMT Turret	BMT Turret	BMT Turret	BMT Turret	BMT Turret
	Turret type / Num. of Tools	PCS	BMT55-12T	BMT55-12T	BMT55-12T	BMT55-12T	BMT55-12T	BMT55-12T	BMT55-12T
Travel	Max. Swing over bed	MM	700	700	700	700	700	700	700
	Distance between Centers	MM		1650			2050		
	Max. Turning Length	MM	1000	1450	1450	1450	1900	1900	1900
	Max. Turning Diameter	MM	380	380	380	380	380	380	380
	Bar hole	MM	75 (92)	75 (92)	75 (92)	75 (92)	75 (92)	75 (92)	75 (92)
System Configuration	FANUC	OI-TF							
	Power tools Motor	KW	3.7	3.7	3.7	3.7	3.7	3.7	3.7
Spindle	Chuck Diameter	INCH	10"/ 13"	10"/ 14"	10"/ 15"	10"/ 16"	10"/ 17"	10"/ 18"	10"/ 19"
	Spindle Nose	TYPE	A2-8	A2-8	A2-8	A2-8	A2-8	A2-8	A2-8
	Spindle Hole	MM	92 (106)	92 (106)	92 (106)	92 (106)	92 (106)	92 (106)	92 (106)
	Bear Type	TYPE	NN3026 (3028)	NN3026 (3028)	NN3026 (3028)	NN3026 (3028)	NN3026 (3028)	NN3026 (3028)	NN3026 (3028)
	Spindle Bearing Diameter	MM	130 (140)	130 (140)	130 (140)	130 (140)	130 (140)	130 (140)	130 (140)
	Spindle Motor	KW	15-18.5 (wide area motor)	15-18.5 (wide area motor)	15-18.5 (wide area motor)	15-18.5 (wide area motor)	15-18.5 (wide area motor)	15-18.5 (wide area motor)	15-18.5 (wide area motor)
	Spindle Speed	RPM	3000(2500)	3000(2500)	3000(2500)	3000(2500)	3000(2500)	3000(2500)	3000(2500)
Secondary Sprindle	Chuck Diameter	INCH	6"		6"	6"		6"	6"
	Spindle Nose	TYPE	A2-5		A2-5	A2-5		A2-5	A2-5
	Spindle Hole	MM	45		45	45		45	45
	Spindle Motor	KW	7.5 - 11		7.5 - 11	7.5 - 11		7.5 - 11	7.5 - 11
	Spindle Speed	RPM	4500		4500	4500		4500	4500
X-Axis	Travel	MM	200+20	200+20	245	200+20	200+20	245	200+20
	Speed	M/MIN	20	20	20	20	20	20	20
	Servo Motor	KW	3	3	3	3	3	3	3
	Ball Screw	MM	R32 / P10	R32 / P10	R32 / P10	R32 / P10	R32 / P10	R32 / P10	R32 / P10
	Repeat Accuracy	TYPM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Z-Axis	Travel	MM	1100	1500	1500	1450	1900	1900	1900
	Speed	M/MIN	20	20	20	20	20	20	20
	Servo Motor	KW	3	3	3	3	3	3	3
	Ball Screw	MM	R40 / P10	R40 / P10	R40 / P10	R40 / P10	R40 / P10	R40 / P10	R40 / P10
	Repeat Accuracy	MM	0.007	0.008	0.008	0.008	0.01	0.01	0.01
Y-Axis	Travel	MM	90	90		90	90		90
	Speed	M/MIN	15	15		15	15		15
	Servo Motor	KW	3	3		3	3		3
	Ball Screw	MM	R32 / P10	R32 / P10		R32 / P10	R32 / P10		R32 / P10
	Repeat Accuracy	MM	0.005	0.005		0.005	0.005		0.005
B-Axis	Travel	MM	1100		1500	1500		1900	1900
	Speed	M/MIN	15		15	15		15	15
	Servo Motor	KW	3		3	3		3	3
	Ball Screw	MM	R40 / P10		R40 / P10	R40 / P10		R40 / P10	R40 / P10
	Repeat Accuracy	MM	0.005		0.005	0.005		0.005	0.005
Tail Stock	Control Mode	TYPE		Programmable			Programmable		
	Quill Diameter	MM		80			80		
	Mohs scale	TYPE		MT5			MT5		
X-Axis		TYPE	Box way (Linear way)	Box way (Linear way)	Box way (Linear way)	Box way (Linear way)	Box way (Linear way)	Box way (Linear way)	Box way (Linear way)
Y-Axis		TYPE	Box way (Linear way)	Box way (Linear way)	Box way (Linear way)	Box way (Linear way)	Box way (Linear way)	Box way (Linear way)	Box way (Linear way)
Z-Axis		TYPE	Box way (Linear way)	Box way (Linear way)		Box way (Linear way)	Box way (Linear way)		Box way (Linear way)
Water tank capacity		LITER	300	360	360	360	400	400	400
Mechanical Size	Floor Area	CM	360*175	360*175	360*175	360*175	360*175	360*175	360*175
	Weight	KG	7500	7800	6400	6500	6700	6800	6900
	Packing Size	CM	336*230*228	455*230*228	455*230*228	455*230*228	520*230*228	520*230*228	520*230*228

NOVATECH
Heavy Duty Machine Tools

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