LATHE SPECIALIST

TURNING FOR THE WORLD

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TURNING FOR THE WORLD

PRECISION, INVENTION, AUTOMATION& REALIZATION

CONTENTS


COMPANY PROFILE

Anyang Xinheng Machine Tool Co.,Ltd is located in Anyang, Henan Province, China. We have always been committed to the research and manufacture of machine tools.

Our factory covers more than 30,000 square meters and we have the latest manufacturing facility. We have attained ISO9001:2000 international quality control system certificate. Our products are exported overseas and very popular both at home and abroad. We are specialized in precision lathe manufacturing, covering oil country lathe, spherical turning lathe, CNC lathe, conventional lathe, heavy duty lathe, CNC roll turning lathe, automatic production line, etc. We supply the lathe with high quality and competitive price all over the world.

We can provide global quality warranty, and we also provide excellent service and qualified accessories for our lathe during the whole working life. Welcome to contact us!



ABOUT US

Purpose: turning for the world.

Mission: craftsmanship builds the Chinese machine tool.

Vision: to build a centenary enterprise, to create a world brand.

Value: integrity of the heart, truth-seeking and refinement, focused and all-win.

Development idea: enterprise development, employee benefit, achievement sharing.

Brand concept: good quality parts, precision grade machine tools, high-quality employees and world-class brand.

Quality philosophy: quality assurance, factory direct, excellent quality.

Quality principle: strict process control, process discipline, strong after sale service.

Production philosophy: demand is planning, order is command, excellence makes value.

Market concept: we meet customers' need and build Xinheng a world famous brand.

Marketing concept: let Xinheng machine tool become the customer first choice.

Service concept: we set out from customers' need, and to achieve customer's satisfaction.

Innovative concept: we are oriented by customers' demand and good at questioning and daring to surpass.

Environmental-concept concept: pleasant, green, harmonious, sharing.



Conventional lathe (312/400mm guideway)

» Our lathe bed is made of high strength cast iron, and treated by long time aging treatment, so the precision is good and durable.

» Spindle bore diameter φ52/φ82/φ104 mm.

» There are oblique chip outlets in our lathe bed, easy for chip removing.

» Our lathe guide is quenched by induction quenching device, hardened layer thickness is 2-3mm, hardness is 52 HRC.

» DRO, quick change toolpost, grinding attachment, milling power head, rotary tailstock, motorized tailstock are for option.

Technical paramenter

Item		Unit	CD6132	CD6136	CD6140	CQ6140	CQ6240	CQ6150	CQ6250	CQ6161	CQ6261	CQ6166	CQ6266
Capacity	Swing over bed	mm	φ320	φ360	φ400	400		500		610		660	
	Swing over carriage	mm	φ180	φ200	φ240	φ210		φ300		φ370		φ400	
	Swing over gap	mm	-	-	-	-	630	-	720	-	830	-	880
	Max. length of workpiece	mm	750/1000	750/1000	750/1000	1000/2000/3000		1000/2000/3000		1000/2000/3000		1000/2000/3000	
	Max. turning length	mm	600/850	600/850	600/850	850/1850/2850		850/1850/2850		850/1850/2850		850/1850/2850	
	Span of guideway	mm	312	312	312	400		400		400		400	
Spindle	Spindle nose type	-	C6	C6	C6	C6/D8		C6/D8/D8		C6/D8/D8		C6/D8/D8	
	Spindle taper	-	MT6	MT6	MT6	MT6/ φ90 1:20		MT6/ φ90 1:20/ φ113 1:20		MT6/ φ90 1:20/ φ113 1:20		MT6/ φ90 1:20/ φ113 1:20	
	Spindle bore	mm	φ52	φ52	φ52	φ52/80		φ52/80/105		φ52/80/105		φ52/80/105	
	No. of spindle speeds	-	12	12	12	24		24		24		24	
	Range of spindle speeds	r/min	30-1600	30-1600	30-1600	16-1400		16-1400		16-1400		16-1400	
Toolpost	Cross section of tool shank	mm	20*20	20*20	20*20	25*25		25*25		25*25		25*25	
	Tool post type	mm	V4	V4	V4	V4		V4		V4		V4	
	Maxstroke of upper toolpost	mm	140	140	140	140		140		140		140	
Feed	No. of longitudinal feeding	mm/r	44; 0.039-1.05	44; 0.039-1.05	44; 0.039-1.05	64		64		64		64	
	No. of transverse feeding	mm/r	44; 0.019-0.52	44; 0.019-0.52	44; 0.019-0.52	64		64		64		64	
	No. and rang of metric threads	-	25; 0.5-20	25; 0.5-20	25; 0.5-20	44; 1-192		44; 1-192		44; 1-192		44; 1-192	
	No. and rang of inch threads	TPI	35; 80-1.75	35; 80-1.75	35; 80-1.75	21; 24-2		21; 24-2		21; 24-2		21; 24-2	
	No. and rang of modulus threads	-	24; 0.25-10	24; 0.25-10	24; 0.25-10	39; 0.25-48		39; 0.25-48		39; 0.25-48		39; 0.25-48	
	No. and rang of diameter pitch threads	-	30; 160-3.5	30; 160-3.5	30; 160-3.5	37; 1-96		37; 1-96		37; 1-96		37; 1-96	
Tailstock	Tailstock quill diameter	mm	60	60	60	75		75		75		75	
	Tailstock quill taper	-	MT4	MT4	MT4	MT5		MT5		MT5		MT5	
	Tailstock quill effective stroke	mm	100	100	100	150		150		150		150	
Others	Main motor power	kW	3	3	3	7.5		7.5		7.5		7.5	
	Width*Height	mm	970*1220	970*1250	970*1280	1000*1267		1037*1312		1081*1367		1106*1392	
	Length	mm	1940/2180	1940/2180	1940/2180	2650/3650/4800		2650/36504800		2650/3650/4800		2650/3650/4800	
	Net weight	kg	1300/1370	1350/1400	1400/1450	2070/2570/3200		2140/2640/3400		2250/2787/3600		2450/2880/3800	
	Note: swing over bed/swing over gap/distance between centers (750mm-4000mm) can be customized.												

Conventional lathe (550/600mm guideway)

» Our lathe bed is made of HT300 high strength cast iron, and treated by long time aging treatment, so the precision is good and durable.

» The max. workpiece for our lathe is 1500/2000/3000/4000 kg.

» There are oblique chip outlets in our lathe bed, easy for chip removing.

» Our lathe guide is quenched by induction quenching device, hardened layer thickness is 2-3mm, hardness is 52 HRC.

» DRO, quick change toolpost, grinding attachment, milling power head, rotary tailstock, motorized tailstock are for option.

Technical paramenter

Item		Unit	CW6163B	CW6263B	CW6180B	CW6280B	CW6194B	CW6294B	CW6180	CW61100
Capacity	Swing over bed	mm	φ630		φ800		φ940		φ800	φ1000
	Swing over carriage	mm	φ350		φ520		φ660		φ480	φ680
	Swing over gap	-	-	φ830	-	φ1000	-	φ1140	-	-
	Max. length of workpiece	mm	1500/2000/3000		1500/2000/3000		1500/2000/3000		1500/2000/3000	1500/2000/3000
	Max. turning length	mm	1350/1850/2850		1350/1850/2850		1350/1850/2850		1350/1850/2850	1350/1850/2850
	Span of guideway	mm	550		550		550		600	600
	Max. weight of workpiece	t	1.5/3		1.5/3		1.5/3		2/4	2/4
Spindle	Spindle nose type	-	C11		C11		C11		C11/C15	C11/C15
	Center taper	-	MT5		MT5		MT5		MT6	MT6
	Spindle bore	mm	φ100		φ100		φ100		φ100/φ140	φ100/φ140
	No. of spindle speeds	-	18		18		18		18/6	18/6
	Range of spindle speeds	r/min	7.5-1000		6-800		6-800		Forward: 6-750; Reverse:10-775	Forward: 6-750; Reverse:10-775
Toolpost	Cross section of tool shank	mm	30*30		30*30		30*30		32*32	32*32
	Maxstroke of upper toolpost	mm	200		200		200		200	200
	Max. stroke of lower toolpost	mm	440		540		570		500	500
Feed	No. of longitudinal and transverse feeding	-	64 kinds each		64 kinds each		64 kinds each		64 kinds each	64 kinds each
	Ratio of transverse feed to longitudinal feed	-	1/2		1/2		1/2		1/2	1/2
	No. and rang of metric threads	-	50; 1-240		50; 1-240		50; 1-240		50; 1-240	50; 1-240
	No. and rang of inch threads	-	26; 14-1		26; 14-1		26; 14-1		26; 14-1	26; 14-1
	No. and rang of modulus threads	-	53; 0.5-44		53; 0.5-44		53; 0.5-44		53; 0.5-120	53; 0.5-120
	No. and rang of diameter pitch threads	-	24; 28-1		24; 28-1		24; 28-1		24; 28-1	24; 28-1
Tailstock	Tailstock quill diameter	mm	100		100		100		φ100	φ100
	Tailstock quill taper	-	MT5		MT5		MT5		MT6	MT6
	Tailstock quill effective stroke	mm	250		250		250		250	250
Power system	Main motor power	kW	11		11		11		11	11
	Rapid traverse motor power	kW	1.1		1.1		1.1		1.1	1.1
Others	Width*Height	mm	1393*1537		1473*1622		1430*1690		1450*1730	1450*1830
	Length	mm	3725/4225/5225		3725/4225/5225		3725/4225/5225		3670/3985/5165	3670/3985/5165
	Net weight	kg	3700/4200/4700		3900/4400/4900		4400/4900/5400		4900/5100/5500	5400/5600/6000
	Note: swing over bed/swing over gap/distance between centers (750mm-12000mm) can be customized.									

Conventional lathe (755mm guideway)

» The max. workpiece for our lathe is 6000 kg.

» Our chuck is φ1000 mm made by Hohhot, the best and most famous chuck manufacturer in China, our chuck is durable.

» Our lathe guide is quenched by induction quenching device, hardened layer thickness is 2-3mm, hardness is 52 HRC.

» There are oblique chip outlets in our lathe bed, easy for chip removing.

» DRO, quick change toolpost, grinding attachment, milling power head, rotary tailstock, motorized tailstock are for option.

Technical paramenter

Item		Unit	CW61100B	CW61125B	CW61140B	CW61160B
Capacity	Swing over bed	mm	φ1000	φ1250	φ1400	φ1640
	Swing over carriage	mm	φ615	φ865	φ1015	φ1250
	Max. length of workpiece	mm	1500/3000/5000/6000	1500/3000/5000/6000	1500/3000/5000/6000	1500/3000/5000/6000
	Max. turning length	mm	1300/2800/4800/5800	1300/2800/4800/5800	1300/2800/4800/5800	1300/2800/4800/5800
	Span of guideway	mm	755	755	755	755
	Max. weight of workpiece	t	6	6	6	6
Spindle	Spindle nose type	-	A2-15	A2-15	A2-15	A2-15
	Front taper of spindle hole	-	1:20/Metric 140	1:20/Metric 140	1:20/Metric 140	1:20/Metric 140
	Spindle bore	mm	φ130	φ130	φ130	φ130
	No. of spindle speeds	-	Forward 21; Reverse 12	Forward 21; Reverse 12	Forward 21; Reverse 12	Forward 21; Reverse 12
	Range of spindle speeds	r/min	Forward 3.15-315; Reverse 3.5-291	Forward 3.15-315; Reverse 3.5-291	Forward 3.15-315; Reverse 3.5-291	Forward 3.15-315; Reverse 3.5-291
Toolpost	Cross section of tool shank	mm	45*45	45*45	45*45	45*45
	Maxstroke of upper Toolpost	mm	300	300	300	300
	Max. stroke of lower Toolpost	mm	520	580	580	630
Feed	No. of longitudinal and transverse feeding	-	56 kinds each	56 kinds each	56 kinds each	56 kinds each
	No. and rang of metric threads	-	44; 1-120	44; 1-120	44; 1-120	44; 1-120
	No. and rang of inch threads	-	31; 28-1/4	31; 28-1/4	31; 28-1/4	31; 28-1/4
	No. and rang of modulus threads	-	45; 0.5-60	45; 0.5-60	45; 0.5-60	45; 0.5-60
	No. and rang of diameter pitch threads	-	38; 1/2-56DP	38; 1/2-56DP	38; 1/2-56DP	38; 1/2-56DP
Tailstock	Tailstock quill diameter	mm	160	160	160	160
	Tailstock quill taper	-	MT6	MT6	MT6	MT6
	Tailstock quill max. stroke	mm	300	300	300	300
Others	Main motor power	kW	22	22	22	22
	Width*Height	mm	2150*1700	2150*1825	2150*2100	2150*2150
	Length	mm	4600/6100/8100/9100	4600/6100/8100/9100	4600/6100/8100/9100	4600/6100/8100/9100
	Net weight	kg	9200/10700/12100/12800	10200/11800/14800/15500	10300/11900/14900/15600	10500/12100/15100/16600
	Note: swing over bed/swing over gap/distance between centers (1500mm-12000mm) can be customized.					

Conventional lathe (970mm guideway)

» The max. workpiece for our lathe is 10 ton.

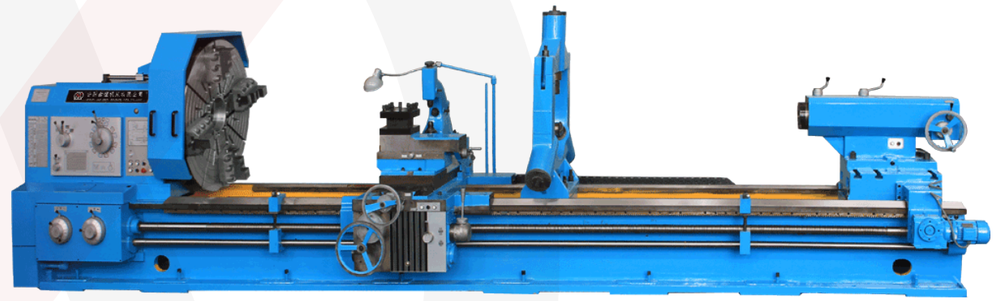
» Our lathe guide is quenched by induction quenching device, hardened layer thickness is 2-3mm, hardness is 52 HRC.

» We have Germany made high precision lathe guide grinding machine to ensure the guide precision.

» Our chuck is K78 series φ1250 mm heavy duty chuck made by Hohhot, the best and most famous chuck manufacturer in China.

» Motorized tailstock.

» DRO, grinding attachment, milling power head, rotary tailstock, tailstock chuck are for option.



Technical paramenter

Item		Unit	CW61125	CW61140	CW61160
Capacity	Swing over bed	mm	φ1250	φ1400	φ1600
	Swing over carriage	mm	φ865	φ1010	φ1210
	Max. length of workpiece	mm	3000/4000/5000/6000	3000/4000/5000/6000	3000/4000/5000/6000
	Max. turning length	mm	2800/3800/4800/5800	2800/3800/4800/5800	2800/3800/4800/5800
	Span of guideway	mm	970	970	970
	Max. weight of workpiece	t	10	10	10
Spindle	Front taper of spindle hole	-	Metric 140	Metric 140	Metric 140
	Spindle bore	mm	φ130	φ130	φ130
	No. of spindle speeds	-	Forward 21; Reverse 12	Forward 21; Reverse 12	Forward 21; Reverse 12
	Range of spindle speeds	r/min	Forward 3.15-315; Reverse 3.5-291	Forward 3.15-315; Reverse 3.5-291	Forward 3.15-315; Reverse 3.5-291
Toolpost	Cross section of tool shank	mm	45*45	45*45	45*45
	Maxstroke of upper Toolpost	mm	300	300	300
	Max. stroke of lower Toolpost	mm	650	650	650
Feed	No. of longitudinal and transverse feeding	-	56 kinds each	56 kinds each	56 kinds each
	No. and rang of metric threads	-	44; 1-120	44; 1-120	44; 1-120
	No. and rang of inch threads	-	31; 28-1/4	31; 28-1/4	31; 28-1/4
	No. and rang of modulus threads	-	45; 0.5-60	45; 0.5-60	45; 0.5-60
	No. and rang of diameter pitch threads	-	38; 1/2-56DP	38; 1/2-56DP	38; 1/2-56DP
Tailstock	Tailstock quill diameter	mm	220	220	220
	Tailstock quill taper	-	MT6	MT6	MT6
	Tailstock quill max. stroke	mm	300	300	300
Others	Main motor power	kW	22	22	22
	Width*Height	mm	1995*2175	1995*2325	1995*2525
	Length	mm	6020/7020/8020/9020	6020/7020/8020/9020	6020/7020/8020/9020
	Net weight	kg	14500/15800/17000/18300	15000/16300/17500/18800	15500/16800/18000/19300
	Note: swing over bed/distance between centers (3000mm-16000mm) can be customized.				

Conventional heavy duty lathe (1100mm guideway)

» The max. workpiece for our lathe is 16 ton.

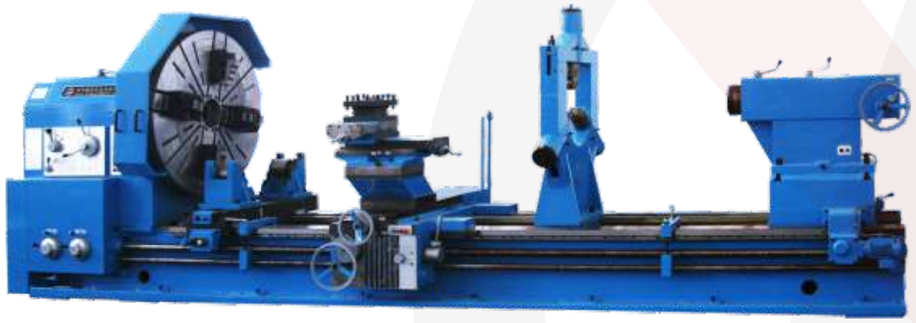
» Our lathe is equipped with 1100 mm rectangular guideways.

» We have Germany made high precision lathe guide grinding machine to ensure the guide precision.

» Our chuck is K78 series φ1250 /φ1400 /φ1600 /φ2000 mm heavy duty chuck made by Hohhot, the best and most famous chuck manufacturer in China.

» Motorized rotary tailstock.

» DRO, grinding attachment, milling power head and tailstock chuck are for option.



Technical paramenter

Item		Unit	C61125	C61160	C61180	C61200
Capacity	Swing over bed	mm	φ1250	1600	φ1800	φ2000
	Swing over carriage	mm	φ900	φ1250	φ1450	φ1650
	Max. length of workpiece	mm	3000/4000/5000/6000	3000/4000/5000/6000	3000/4000/5000/6000	3000/4000/5000/6000
	Max. turning length	mm	2800/3800/4800/5800	2800/3800/4800/5800	2800/3800/4800/5800	2800/3800/4800/5800
	Span of guideway	mm	1100	1100	1100	1100
	Structure of guideway	-	Rectangular 2 guideways	Rectangular 2 guideways	Rectangular 2 guideways	Rectangular 2 guideways
	Max. weight of workpiece	t	16	16	16	16
Spindle	Front taper of spindle hole	-	Metric 140	Metric 140	Metric 140	Metric 140
	Spindle bore	mm	φ100	φ100	φ100	φ100
	No. of spindle speeds	-	Forward 21; Reverse 12	Forward 21; Reverse 12	Forward 21; Reverse 12	Forward 21; Reverse 12
	Range of spindle speeds	r/min	Forward 3.15-315; Reverse 3.5-291	Forward 3.15-315; Reverse 3.5-291	Forward 3.15-315; Reverse 3.5-291	Forward 3.15-315; Reverse 3.5-291
Toolpost	Cross section of tool shank	mm	50*50	50*50	50*50	50*50
	Max.stroke of upper Toolpost	mm	360	360	360	360
	Max. stroke of lower Toolpost	mm	740	850	900	900
Feed	No. of longitudinal and transverse feeding	-	56 kinds each	56 kinds each	56 kinds each	56 kinds each
	No. and rang of metric threads	-	44; 1-120	44; 1-120	44; 1-120	44; 1-120
	No. and rang of inch threads	-	31; 28-1/4	31; 28-1/4	31; 28-1/4	31; 28-1/4
	No. and rang of modulus threads	-	45; 0.5-60	45; 0.5-60	45; 0.5-60	45; 0.5-60
	No. and rang of diameter pitch threads	-	38; 1/2-56DP	38; 1/2-56DP	38; 1/2-56DP	38; 1/2-56DP
Tailstock	Tailstock quill diameter	mm	260	260	260	260
	Tailstock quill taper	-	Metric 80	Metric 80	Metric 80	Metric 80
	Tailstock quill max. stroke	mm	300	300	300	300
Others	Main motor power	kW	30	30	30	30
	Width*Height	mm	2058*2200	2130*2380	2330*2480	2430*2580
	Length	mm	6120/7120/8120/9120	6120/7120/8120/9120	6120/7120/8120/9120	6120/7120/8120/9120
	Net weight	kg	18300/19900/21500/23100	19800/21400/23000/24600	20300/21900/235000/25100	20800/22400/24000/25600
	Note: swing over bed/distance between centers (3000mm-14000mm) can be customized.					

Conventional heavy duty lathe (1600mm guideway)

» The max. workpiece for our lathe is 32 ton.

» Our lathe is equipped with 1600 mm rectangular 3 guideways.

» There are chip outlets at the bottom of our lathe bed, chip drops into chip container in the foundation, easy for chip removing.

» Stepless speed regulation in the whole spindle speed range.

» Powerful 75kW DC motor from Shanghai Nanyang, the best manufacturer of DC motor in China.

» Disc spring is installed on the back of motorized rotary tailstock spindle to prevent damage to the mechanism due to thermal expansion of the workpiece.

Technical paramenter

Item		Unit	C61160	C61200	C61250
Capacity	Swing over bed	mm	φ1600	φ2000	φ2500
	Swing over carriage	mm	φ1250	φ1600	φ2000
	Max. length of workpiece	mm	8000/10000/12000/16000	8000/10000/12000/16000	8000/10000/12000/16000
	Max. cutting force of single toolpost	kg	8000	8000	8000
	Total cutting force	kg	6000	6000	6000
	Max. cutting force	kg	16000	16000	16000
	Structure of guideway	-	Rectangular 3 guideways	Rectangular 3 guideways	Rectangular 3 guideways
	Span of guideway	mm	1600	1600	1600
	Max. weight of workpiece	t	32	32	32
Spindle	Spindle speed	-	Stepless	Stepless	Stepless
	Spindle taper hole angle	°	75	75	75
	Spindle speed range	r/min	0.8-160	0.8-160	0.8-160
	Spindle taper hole	-	Metric 120, taper 1:7	Metric 120, taper 1:7	Metric 120, taper 1:7
	Face plate diameter	mm	φ1600	φ1800	φ2000
Toolpost	Max. stroke of transverse toolpost	mm	725	725	800
	Max. stroke of lower toolpost	mm	600	600	600
Feed	Feed grades	-	18	18	18
	Range of metric threads	mm	2-40	2-40	2-40
	Range of inch threads	-	1-14	1-14	1-14
	Range of modulus threads	mm	1.5-20	1.5-20	1.5-20
Tailstock	Tailstock quill diameter	mm	φ300	φ300	φ300
	Tailstock quill taper	-	φ100 taper 1:7	φ100 taper 1:7	φ100 taper 1:7
	Tailstock quill max. stroke	mm	300	300	300
Others	Main motor power	kW	75	75	75
	Width*Height	mm	2479*2280	2579*2580	2679*2680
	Length	mm	13577/15577/17577/21577	13577/15577/17577/21577	13577/15577/17577/21577
	Net weight	kg	45000/48000/52000/58000	47000/50000/54000/59000	48000/51000/55000/60000
	Note: swing over bed/distance between centers (5000mm-20000mm) can be customized.				

Conventional heavy duty lathe (2090mm guideway)

» The max. workpiece for our lathe is 63 ton.

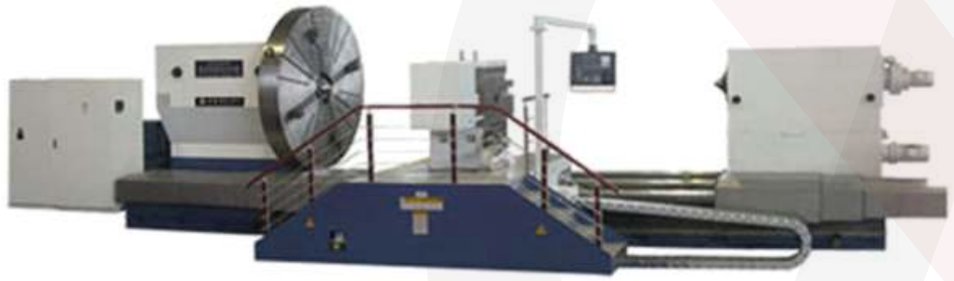
» Our lathe is equipped with 2090 mm rectangular 3 guideways.

» Power clamping screws from JAKOB ANTRIEBSTECHNIK from Germany are installed on our chuck.

» Stepless speed regulation in the whole spindle speed range.

» Powerful 144kW DC motor from Shanghai Nanyang, the best manufacturer of DC motor in China.

» Disc spring is installed on the back of motorized rotary tailstock with SP class bearing to prevent damage to the mechanism due to thermal expansion of the workpiece.



Technical paramenter

Item		Unit	C61250
Capacity	Swing over bed	mm	φ2500
	Swing over carriage	mm	φ2200
	Length of workpiece	mm	5000-20000
	Max. torque of faceplate	N·m	120000
	Max. cutting force of single toolpost	N	120000
	Total cutting force	N	200000
	Span of guideway	mm	2090
	Structure of guideway	-	Rectangular 3 guideways
	Max. weight of workpiece	t	63
Spindle	Spindle speed	-	Stepless
	Spindle speed range	r/min	0.5-125
	Spindle taper hole	-	φ196.869; taper1:4
	Face plate diameter	mm	φ2200
Toolpost	Max. stroke of X-axis	mm	1000
	Rapid traverse speed of X-axis	mm/min	3000
	Rapid traverse speed of Z-axis	mm/min	6000
Tailstock	Tailstock quill diameter	mm	φ560
	Tailstock quill stroke	mm	200
	Tailstock quill taper	mm	75°, φ160 (taper 1:4)
Others	Main motor type	-	DC motor
	Main motor power	kW	144; 540-1900r/min
	Note: swing over bed/distance between centers (5000mm-20000mm) can be customized.		

Spherical turning lathe

» Max. diameter of sphere 550/900/1600/1800 mm.

» After turning and surface hardening, sphere surface roughness can reach Ra0.2 μm or better, it is idea processing lathe for ball valve core.

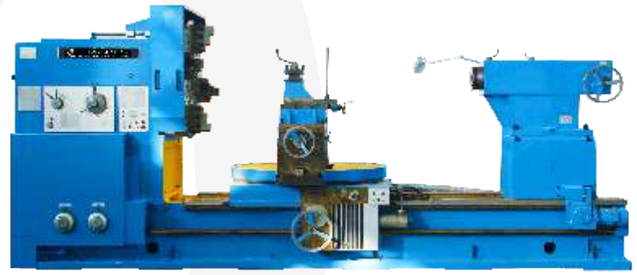
» Our lathe is a special designed sphere turning lathe with motorized rotary table, its precision and efficiency are high, our lathe is not ordinary lathe installed with simple ball turning attachment.

» Our lathe bed is made of HT300 high strength cast iron, and treated by long time aging treatment, so the precision is good and durable.

» Our lathe guide is quenched by induction quenching device, hardened layer thickness is 2-3mm, hardness is 52 HRC.

» There are oblique chip outlets in our lathe bed, easy for chip removing.

» Surface hardening device, quick change toolpost, DRO, grinding attachment, rotary tailstock, motorized tailstock are for option.



Technical paramenter

Item		Unit	C6525	C6555	C6590A	C6590B	C65160	C65180
Capacity	Swing over bed	mm	φ560	φ940	φ1430	φ1600	φ2000	φ2200
	Max. diameter of sphere	mm	φ250	φ550	φ900	φ900	φ1600	φ1800
	Min. diameter of sphere	mm	φ50	φ50	φ150	φ260	φ1000	φ1200
	Max. length of workpiece	mm	1000	1500	1500	1500	3000	3000
	Span of guideway	mm	400	550	600	755	1100	1100
	Max. weight of workpiece	t	0.3	1.5	2	6	16	16
Spindle	Spindle nose type	-	C6	C11	C11	A2-15	A2-15	A2-15
	Spindle bore	mm	φ52	φ100	φ104	φ130	φ100	φ100
	Front taper of spindle hole	mm	MT6	Metric120	Metric120	Metric140	Metric140	Metric140
	No. of spindle speeds	-	24	18	18	21	21	21
	Range of spindle speeds	r/min	10-1400	6-800	5.4-720	3.15-315	3.15-315	3.15-315
	Spindle reverse speeds	r/min	14-1580	11-838	6.5-720	3.5-291	3.5-291	3.5-291
	Chuck size	mm	φ250	φ320	φ320	φ400	φ1250	φ1250
Toolpost	Cross section of tool shank	mm	25*25	30*30	32*32	45*45	50*50	50*50
	Swivel angle of toolpost	°	±90	±90	±90	±90	±55	±55
	Toolpost type	-	V4	V4	V4	V4	V4	V4
Tailstock	Tailstock quill diameter	mm	φ75	φ100	φ100	φ160	φ260	φ260
	Tailstock quill taper	-	MT5	MT5	MT5	MT6	Metric 80	Metric 80
	Tailstock quill effective stroke	mm	150	250	250	300	300	300
Others	Main motor power	kW	7.5	11	11	22	30	30
	Length	mm	2668	3725	3360	4700	6120	6220
	Width	mm	1000	1430	1450	2500	2620	2720
	Height	mm	1367	1690	1950	2000	2520	2620
	Net weight	kg	2300	4400	5500	12000	20800	21300

Conventional pipe threading lathe (550/600mm guideway)

» Spindle bore 130/200/225/280 mm.

» Double hollow chucks.

» The max. workpiece for our lathe is 3000/4000 kg.

» There are oblique chip outlets in our lathe bed, easy for chip removing.

» Our lathe guide is quenched by induction quenching device, hardened layer thickness is 2-3mm, hardness is 52 HRC.

» Taper attachment, quick change toolpost, DRO, grinding attachment, milling power head, rotary tailstock, motorized tailstock are for option.

Technical paramenter

Item		Unit	Q1213	Q1219	Q1222	Q1225	Q1227
Capacity	Swing over bed	mm	φ630/800	φ630/800	φ630/800	φ800	φ800
	Swing over carriage	mm	φ340/520	φ340/520	φ340/520	φ480	φ480
	Distance between centers	mm	1500/3000	1500/3000	1500/3000	1500/3000	1500/3000
	Pipe threading range	mm	φ30-126	φ50-193	φ50-220	φ50-250	φ50-270
	Span of guideway	mm	550	550	550	600	600
	Max. weight of workpiece	t	3	3	3	4	4
Spindle	Spindle bore	mm	φ130	φ200	φ225	φ255	φ280
	Spindle speed regulation	-	Forward: 18 gears; Reverse: 9 gears	Stepless in 4 gears	Stepless in 4 gears	Stepless in 4 gears	Stepless in 4 gears
	Spindle speed range	r/min	30-650	20-550	20-550	20-420	20-420
	Chuck	mm	φ400 3-jaw manual	φ520 4-jaw manual	φ520 4-jaw manual	φ630 4-jaw manual	φ630 4-jaw manual
Toolpost	Cross section of tool shank	mm	30*30	32*32	32*32	32*32	32*32
	Toolpost type	-	V4	V4	V4	V4	V4
Feed	Max. stroke of X-axis	mm	320/420	320/420	320/420	420	420
	Max. stroke of Z-axis	mm	1350/2850	1350/2850	1350/2850	1250/2750	1250/2750
	No. and range of X-axis feed	-	22/0.02-0.45	22/0.02-0.45	22/0.02-0.45	22/0.02-0.45	22/0.02-0.45
	No. and range of Z-axis feed	-	26/0.07-1.33	26/0.07-1.33	26/0.07-1.33	26/0.07-1.33	26/0.07-1.33
	Rapid traverse speed of X-axis	mm/min	2300	2300	2300	2300	2300
	Rapid traverse speed of Z-axis	mm/min	4000	4000	4000	4000	4000
	No. and rang of metric threads	-	52/1-24	1-15	1-15	1-15	1-15
	No. and rang of inch threads	-	40/28-2	14-1	14-1	14-1	14-1
Tailstock	Tailstock quill diameter	mm	φ100	φ100	φ100	φ120	φ120
	Tailstock quill taper	-	MT5	MT5	MT5	MT6	MT6
	Tailstock quill max. stroke	mm	250	250	250	250	250
Others	Main motor power	kW	11	11	11	15	15
	Rapid traverse motor power	kW	0.3	0.3	0.3	1.1	1.1
	Coolant pump motor power	kW	0.125	0.125	0.125	0.125	0.125
	Width*Height	mm	1500*1500	1550*1550	1650*1550	1700*1600	1700*1600
	Length	mm	3700/5200	3700/5200	3700/5200	4100/5600	4100/5600
	Net weight	kg	4000/5200	4300/5500	4500/5700	8000/9000	8000/9000
	Note: swing over bed/distance between centers can be customized.						

Conventional pipe threading lathe (755mm guideway)

» Spindle bore 280/330/390/440/520 mm.

» Double 4-jaw hollow chucks.

» The max. workpiece for our lathe is 6000 kg.

» There are oblique chip outlets in our lathe bed, easy for chip removing.

» Our lathe guide is quenched by induction quenching device, hardened layer thickness is 2-3mm, hardness is 52 HRC.

» Taper attachment, quick change toolpost, DRO, grinding attachment, milling power head, rotary tailstock, motorized tailstock are for option.

Technical paramenter

Item		Unit	Q1227	Q1232	Q1238	Q1243	Q1250
Capacity	Swing over bed	mm	φ1000	φ1000	φ1000	φ1000	φ1200
	Swing over carriage	mm	φ610	φ610	φ610	φ610	φ710
	Distance between centers	mm	1500/3000	1500/3000	1500/3000	1500/3000	1500/3000
	Pipe threading range	mm	φ130-270	φ190-320	φ190-380	φ270-430	φ330-510
	Span of guideway	mm	755	755	755	755	755
	Max. weight of workpiece	t	6	6	6	6	6
Spindle	Spindle bore	mm	φ280	φ330	φ390	φ440	φ520
	Spindle speed regulation	-	Forward: 12 gears	Forward: 9 gears	Forward: 9 gears	Forward: 9 gears	Forward: 9 gears
	Spindle speed range	r/min	16-380	7.5-280	6-205	4.9-180	4.9-180
	Chuck	mm	φ800 4-jaw manual	φ780 4-jaw electric	φ850 4-jaw electric	φ1000 4-jaw electric	φ1000 4-jaw electric
Toolpost	Cross section of tool shank	mm	45*45	45*45	45*45	45*45	45*45
	Toolpost type	-	V4	V4	V4	V4	V4
Feed	Max. stroke of X-axis	mm	520	520	520	520	520
	Max. stroke of Z-axis	mm	1350/2850	1350/2850	1350/2850	1350/2850	1350/2850
	No. and range of X-axis feed	-	40/0.05-1.5	32/0.05-0.75	32/0.05-0.75	32/0.05-0.75	32/0.05-0.75
	No. and range of Z-axis feed	-	40/0.1-3.0	32/0.1-1.5	32/0.1-1.5	32/0.1-1.5	32/0.1-1.5
	Rapid traverse speed of X-axis	mm/min	1870	1870	1870	1870	1870
	Rapid traverse speed of Z-axis	mm/min	3740	3740	3740	3740	3740
	No. and rang of metric threads	-	30/1-30	23/1-15	23/1-15	23/1-15	23/1-15
	No. and rang of inch threads	-	27/28-1	22/28-2	22/28-2	22/28-2	22/28-2
Tailstock	Tailstock quill diameter	mm	φ160	φ160	φ160	φ160	φ160
	Tailstock quill taper	-	MT6	MT6	MT6	MT6	MT6
	Tailstock quill max. stroke	mm	300	300	300	300	300
Power system	Main motor power	kW	22	22	22	22	22
	Rapid traverse motor power	kW	1.5	1.5	1.5	1.5	1.5
	Coolant pump motor power	kW	0.125	0.125	0.125	0.125	0.125
Others	Width*Height	mm	2100*1600	2100*1650	2100*1700	2100*1700	2100*1850
	Length	mm	4800/6300	4900/6400	4900/6400	5000/6500	5000/6500
	Net weight	kg	10000/11500	11500/13000	12800/14300	13000/ 14500	15000/16500
	Note: swing over bed/distance between centers can be customized.						

CNC lathe (260/312/400mm guideway)

» Our lathe bed is made of HT300 high strength cast iron, and treated by long time aging treatment, so the precision is good and durable.

» The max. workpiece for our lathe is 1500/2000/2500/3000/4000 kg.

» There are oblique chip outlets in our lathe bed, easy for chip removing.

» Our lathe guide is quenched by induction quenching device, hardened layer thickness is 2-3mm, hardness is 52 HRC.

» The precision of All our lathes is measured and compensated by RENISHAW laser interferometer, to make sure both positioning precision and repositioning precision are excellent.

» Horizontal hydraulic turret, power tooling turret, pneumatic chuck, hydraulic tailstock, electrical rotary tailstock, milling power head and hydraulic steady rest are for option.

Technical paramenter

Item		Unit	CK0640	CK0660	CKD6136	CKD6140/A	CKQ6140	CKQ6150	CKQ6161	CKQ6166	CKQ6180
Capacities	Swing over bed	mm	φ300	φ400	φ360	φ400	φ400	φ500	φ610	φ660	800
	Swing over carriage	mm	φ120	φ150	φ200	φ220	φ210	φ280	φ370	φ400	φ540
	Max. length of workpiece	mm	180	200	750/1000	750/1000	750/1000/2000	750/1000/2000	750/1000/2000	750/1000/2000	750/1000/2000
	Max. turning length	mm	180	200	600/850	600/850	600/850/1850	600/850/1850	600/850/1850	600/850/1850	600/850/1850
	Span of guideway	mm	260	260	312	312	400	400	400	400	400
Spindle	Spindle nose type	-	-	-	C6	C6	C6/D8	C6/D8/D8	C6/D8/D8	C6/D8/D8	C6/D8/D8
	Spindle center taper	-	-	-	MT6	MT6	MT6/φ90 1:20	MT6/ φ90 1:20/ φ113 1:20	MT6/ φ90 1:20/ φ113 1:20	MT6/ φ90 1:20/ φ113 1:20	MT6/ φ90 1:20/ φ113 1:20
	Spindle bore	mm	φ40	φ48	φ52	φ52	φ52/φ80	φ52/φ80/φ105	φ52/φ80/φ105	φ52/φ80/φ105	φ52/φ80/φ105
	Range of spindle speeds	r/min	3000	2800	1600/3000	1600	1500/1600	1500/1600	1500/1600	1500/1600	1500/1600
	Chuck size	mm	Spring collet	Spring collet	200	250	250	250	250	250	250
Turret	Cross section of tool shank	mm	16*16	16*16	20*20	20*20	25*25	25*25	25*25	25*25	25*25
	Turret type	-	Gang tool	Gang tool	V4	V4	V4	V4	V4	V4	V4
Feed	Min. feed of X-axis/Z-axis	mm	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	Feed speed range	mm/min	1-2000	1-2000	1-2000	1-2000	1-2000	1-2000	1-2000	1-2000	1-2000
	Rapid traverse speed of X-axis/Z-axis	mm/min	6000/8000	6000/8000	4000/6000	4000/6000	4000/6000	4000/6000	4000/6000	4000/6000	4000/6000
	Max. stroke of X-axis	mm	190	220	210	210	250	260	320	340	410
Tailstock	Tailstock quill diameter	mm	-	φ52	φ60	φ60	φ75	φ75	φ75	φ75	φ75
	Tailstock quill taper	-	-	MT4	MT 4	MT 4	MT 5	MT 5	MT 5	MT 5	MT 5
	Tailstock quill max. stroke	mm	-	90	100	100	150	150	150	150	150
Power system	Main motor power	kW	4	4	5.5	5.5	7.5	7.5	7.5	7.5	7.5
Others	CNC system	-	GSK928TD-L	GSK928TD-L	GSK928TD-L	GSK928TD-L	GSK928TD-L	GSK928TD-L	GSK928TD-L	GSK928TD-L	GSK928TD-L
	Width * Height	mm	1200*1600	1000*1600	1240*1700	1240*1700	2550/2750/3700	2550/2750/3700	2550/2750/3700	2550/2750/3700	2550/2750/3700
	Length	mm	1600	1700	2170/2415	2170/2415	1550*1700	1550*1700	1550*1800	1550*1900	1550*2000
	Net weight	kg	800	1100	1400/1500	1700/1800	2100/2200/2700	2120/2240/2740	2250/2400/2800	2300/2450/2880	2400/2550/2980
	Note: swing over bed/swing over gap/distance between centers (750mm-3000mm) can be customized.										

CNC lathe (550/600mm guideway)

» Our lathe bed is made of HT300 high strength cast iron, and treated by long time aging treatment, so the precision is good and durable.

» The max. workpiece for our lathe is 1500/2000/2500/3000/4000 kg.

» There are oblique chip outlets in our lathe bed, easy for chip removing.

» Our lathe guide is quenched by induction quenching device, hardened layer thickness is 2-3mm, hardness is 52 HRC.

» The precision of All our lathes is measured and compensated by RENISHAW laser interferometer, to make sure both positioning precision and repositioning precision are excellent.

» Horizontal hydraulic turret, power tooling turret, pneumatic chuck, hydraulic tailstock, electrical rotary tailstock, milling power head and hydraulic steady rest are for option.

Technical paramenter

Item		Unit	CK6163	CK6263	CK6180	CK6280	CK6194	CK6294	CKP6163	CKP6263	CKP6180	CKP6280	CKP6194	CKP6294	CKB6180	CKB61100	CKBP6180	CKBP61100
Capacity	Swing over bed	mm	φ630		φ800		φ940		φ630		φ800		φ940		φ800	φ1000	φ800	φ1000
	Swing over carriage	mm	φ340		φ510		φ650		φ340		φ510		φ650		φ480	φ680	φ480	φ680
	Swing over gap		-	φ800	-	φ970	-	φ1110	-	φ800	-	φ970	-	φ1110	-	-	-	-
	Max. length of workpiece	mm	1500/2000/3000		1500/2000/3000		1500/2000/3000		1500/2000/3000		1500/2000/3000		1500/2000/3000		1500/2000/3000	1500/2000/3000	1500/2000/3000	1500/2000/3000
	Max. turning length	mm	1350/1850/2850		1350/1850/2850		1350/1850/2850		1350/1850/2850		1350/1850/2850		1350/1850/2850		1350/1850/2850	1350/1850/2850	1350/1850/2850	1350/1850/2850
	Span of guideway	mm	550		550		550		550		550		550		600	600	600	600
	Max. weight of workpiece	t	1.5/3		1.5/3		1.5/3		2/4		2/4		2/4		2.5/4	2.5/4	2.5/4	2.5/4
Spindle	Spindle nose type	-	C11		C11		C11		C11		C11		C11		C11/C15	C11/C15	C11/C15	C11/C15
	Spindle center taper	-	MT5		MT5		MT5		MT5		MT5		MT5		MT6	MT6	MT6	MT6
	Spindle bore	mm	φ100		φ100		φ100		φ100		φ100		φ100		φ100/φ140	φ100/φ140	φ100/φ140	φ100/φ140
	Spindle speed range	r/min	12.5-1000 (stepless in 4 hydraulic gears)		10-800 (stepless in 4 hydraulic gears)		10-800 (stepless in 4 hydraulic gears)		27-1000 (stepless in 4 manual gears)		22-800 (stepless in 4 manual gears)		22-800 (stepless in 4 manual gears)		8-800 (stepless in 4 hydraulic gears)	8-800 (stepless in 4 hydraulic gears)	8-800 (stepless in 4 manual gears)	8-800 (stepless in 4 manual gears)
Turret	Cross section of tool shank	mm	32*32		32*32		32*32		32*32		32*32		32*32		32*32	32*32	32*32	32*32
	Turret type	-	V4		V4		V4		V4		V4		V4		V4	V4	V4	V4
Feed	Min. feed of X-axis/Z-axis	mm	0.001/0.001		0.001/0.001		0.001/0.001		0.001/0.001		0.001/0.001		0.001/0.001		0.001/0.001	0.001/0.001	0.001/0.001	0.001/0.001
	Rapid traverse speed of X-axis/Z-axis	mm/min	3000/6000		3000/6000		3000/6000		3000/6000		3000/6000		3000/6000		4000/5000	4000/5000	4000/5000	4000/5000
	Max. stroke of X-axis	mm	390		475		475		390		475		475		420	420	420	420
Tailstock	Tailstock quill diameter	mm	φ100		φ100		φ100		φ100		φ100		φ100		φ100	φ100	φ100	φ100
	Tailstock quill taper	-	MT5		MT5		MT5		MT5		MT5		MT5		MT6	MT6	MT6	MT6
	Tailstock quill max. stroke	mm	250		250		250		250		250		250		250	250	250	250
Power system	Main motor power	kW	11		11		11		11		11		11		15	15	15	15
	Main motor speed	r/min	1460		1460		1460		1460		1460		1460		970	970	970	970
Others	CNC system	-	Fanuc 0i-TF(5)		Fanuc 0i-TF(5)		Fanuc 0i-TF(5)		Fanuc 0i-TF(5)		Fanuc 0i-TF(5)		Fanuc 0i-TF(5)		Fanuc 0i-TF(5)	Fanuc 0i-TF(5)	Fanuc 0i-TF(5)	Fanuc 0i-TF(5)
	Width*Height	mm	1800*1880		1880*1930		1880*1930		1800*1880		1880*1930		1880*1930		1985*2105	1985*2105	1985*2105	1985*2105
	Length	mm	3895/4390/5390		3895/4390/5390		3895/4390/5390		3895/4390/5390		3895/4390/5390		3895/4390/5390		3970/4510/5465	3970/4510/5465	3970/4510/5465	3970/4510/5465
	Net weight	kg	4000/4500/5000		4400/4900/5400		4700/5200/5700		4000/4500/5000		4400/4900/5400		4700/5200/5700		5300/5600/6000	5600/5900/6300	5300/5600/6000	5600/5900/6300
	Note: swing over bed/swing over gap/distance between centers (1000mm-8000mm)/ CNC system (FANUC/SIEMENS/GSK/KND) can be customized.																	

CNC lathe (755mm guideway)

» The max. workpiece for our lathe is 6000/8000 kg.

» Our lathe guide is quenched by induction quenching device, hardened layer thickness is 2-3mm, hardness is 52 HRC.

» 4 hydraulic gears, stepless in each gear.

» Motorized tailstock.

» The precision of All our lathes is measured and compensated by RENISHAW laser interferometer, to make sure both positioning precision and repositioning precision are excellent.

» Horizontal hydraulic turret, power tooling turret, pneumatic chuck, hydraulic tailstock, electrical rotary tailstock, milling power head and hydraulic steady rest are for option.

Technical paramenter

Item		Unit	CK61100	CK61125	CK61140	CK61160	CK61100E	CK61125E	CK61140E	CK61160E
Capacity	Swing over bed	mm	φ1000	φ1250	φ1400	φ1640	φ1000	φ1250	φ1400	φ1640
	Swing over carriage	mm	φ630	φ880	φ1030	φ1250	φ630	φ880	φ1030	φ1250
	Max. length of workpiece	mm	1500/3000/5000	1500/3000/5000	1500/3000/5000	1500/3000/5000	1500/3000/5000	1500/3000/5000	1500/3000/5000	1500/3000/5000
	Max. turning length	mm	1300/2800/4800	1300/2800/4800	1300/2800/4800	1300/2800/4800	1300/2800/4800	1300/2800/4800	1300/2800/4800	1300/2800/4800
	Span of guideway	mm	755	755	755	755	755	755	755	755
	Max. weight of workpiece	t	6	6	6	6	6	6	6	6
Spindle	Spindle nose type	-	A2-15	A2-15	A2-15	A2-15	A2-15	A2-15	A2-15	A2-15
	Spindle center taper	-	MT6	MT6	MT6	MT6	MT6	MT6	MT6	MT6
	Spindle bore	mm	φ130	φ130	φ130	φ130	φ130	φ130	φ130	φ130
	Spindle speed range	r/min	3.15-315 (stepless in 4 hydraulic gears)	3.15-315 (stepless in 4 hydraulic gears)	3.15-315 (stepless in 4 hydraulic gears)	3.15-315 (stepless in 4 hydraulic gears)	3.15-315 (stepless in 4 hydraulic gears)	3.15-315 (stepless in 4 hydraulic gears)	3.15-315 (stepless in 4 hydraulic gears)	3.15-315 (stepless in 4 hydraulic gears)
	Chuck	mm	φ1000 4-jaw manual	φ1000 4-jaw manual	φ1000 4-jaw manual	φ1000 4-jaw manual	φ1000 4-jaw manual	φ1000 4-jaw manual	φ1000 4-jaw manual	φ1000 4-jaw manual
Turret	Cross section of tool shank	mm	40*40	40*40	40*40	40*40	40*40	40*40	40*40	40*40
	Turret type	-	V4	V4	V4	V4	V4	V4	V4	V4
Tailstock	Tailstock quill diameter	mm	φ160	φ160	φ160	φ160	φ160	φ160	φ160	φ160
	Tailstock quill taper	-	MT6	MT6	MT6	MT6	MT6	MT6	MT6	MT6
	Tailstock quill max. stroke	mm	300	300	300	300	300	300	300	300
Power system	Main motor power	kW	30	22	22	22	30	30	30	30
	Main motor model	-	FANUC_αiP50	FANUC_αiP50	FANUC_αiP50	FANUC_αiP50	CTB-4030ZRD10-30MGP	CTB-4030ZRD10-30MGP	CTB-4030ZRD10-30MGP	CTB-4030ZRD10-30MGP
	Main motor speed	r/min	575/1200	575/1200	575/1200	575/1200	1000	1000	1000	1000
Others	CNC system	-	FANUC 0i-TF (5)	FANUC 0i-TF (5)	FANUC 0i-TF (5)	FANUC 0i-TF (5)	FANUC 0i-TF (5)	FANUC 0i-TF (5)	FANUC 0i-TF (5)	FANUC 0i-TF (5)
	Width*Height	mm	2530*2300	2530*2300	2780*2600	2780*2600	2530*2300	2530*2300	2780*2600	2780*2600
	Length	mm	4800/6300/8300	4800/6300/8300	4800/6300/8300	4800/5300/6300	4800/6300/8300	4800/6300/8300	4800/6300/8300	4800/6300/8300
	Net weight	kg	9200/10700/12500	10200/11500/13500	11000/12300/14100	11400/12700/14500	9200/10700/12500	10200/11500/13500	11000/12300/14100	11400/12700/14500
	Note: swing over bed/swing over gap/distance between centers (1000mm-12000mm) can be customized.									

CNC lathe (970mm guideway)

» The max. workpiece for our lathe is 10/12 ton.

» We have Germany made high precision lathe guide grinding machine to ensure the guide precision.

» 4 hydraulic gears, stepless in each gear.

» Motorized rotary tailstock.

» The precision of All our lathes is measured and compensated by RENISHAW laser interferometer, to make sure both positioning precision and repositioning precision are excellent.

» Horizontal hydraulic turret, power tooling turret, pneumatic chuck, hydraulic tailstock, milling power head and hydraulic steady rest are for option.

Technical paramenter

Item		Unit	CK61125E	CK61140E	CK61160E	CK61180E
Capacity	Swing over bed	mm	φ1250	φ1600	φ1600	φ1600
	Swing over carriage	mm	φ880	φ1210	φ1210	φ1210
	Max. length of workpiece	mm	3000/5000/8000	3000/5000/8000	3000/5000/8000	3000/5000/8000
	Max. turning length	mm	2800/4800/7800	2800/4800/7800	2800/4800/7800	2800/4800/7800
	Span of guideway	mm	970	970	970	970
	Max. weight of workpiece	t	10	10	10	10
Spindle	Spindle nose type	-	A2-15	A2-15	A2-15	A2-15
	Spindle center taper	-	MT6	MT6	MT6	MT6
	Spindle bore	mm	φ130	φ130	φ130	φ130
	Spindle speed range	r/min	5-320 (stepless in 4 hydraulic gears)	5-320 (stepless in 4 hydraulic gears)	5-320 (stepless in 4 hydraulic gears)	5-320 (stepless in 4 hydraulic gears)
	Chuck	mm	φ1250 4-jaw manual	φ1250 4-jaw manual	φ1250 4-jaw manual	φ1250 4-jaw manual
Turret	Cross section of tool shank	mm	40*40	40*40	40*40	40*40
	Turret type	-	V4	V4	V4	V4
Tailstock	Tailstock quill diameter	mm	φ220	φ220	φ220	φ220
	Tailstock quill taper	-	MT6	MT6	MT6	MT6
	Tailstock quill max. stroke	mm	300	300	300	300
Power system	Main motor power	kW	30	30	30	30
Others	CNC system	-	FANUC 0i-TF (5)	FANUC 0i-TF (5)	FANUC 0i-TF (5)	FANUC 0i-TF (5)
	Width*Height	mm	2665*2650	2665*2650	2665*2650	2665*2650
	Length	mm	6520/8520/11520	6520/8520/11520	6520/8520/11520	6520/8520/11520
	Net weight	kg	13500/16500/20000	13500/16500/20000	13500/16500/20000	13500/16500/20000
	Note: swing over bed/distance between centers (3000mm-12000mm) can be customized.					

CNC heavy duty lathe (1100mm guideway)

» The max. workpiece for our lathe is 16/20 ton.

» Our lathe is equipped with 1100 mm rectangular guideways.

» Our chuck is K78 series φ1250 /φ1400 /φ1600 /φ2000 mm heavy duty chuck made by Hohhot, the best and most famous chuck manufacturer in China.

» We have Germany made high precision lathe guide grinding machine to ensure the guide precision.

» Motorized rotary tailstock.

» The precision of All our lathes is measured and compensated by RENISHAW laser interferometer, to make sure both positioning precision and repositioning precision are excellent.

Technical paramenter

Item		Unit	CKH61125	CKH61160	CKH62000	CKHJ61125	CKHJ61160	CKHJ62000
Capacity	Swing over bed	mm	φ1250	φ1600	φ2000	φ1250	φ1600	φ2000
	Swing over carriage	mm	φ900	φ1250	φ1600	φ900	φ1250	φ1600
	Max. length of workpiece	mm	5000/8000/12000	5000/8000/12000	5000/8000/12000	5000/8000/12000	5000/8000/12000	5000/8000/12000
	Max. turning length	mm	4800/7800/11800	4800/7800/11800	4800/7800/11800	4800/7800/11800	4800/7800/11800	4800/7800/11800
	Span of guideway	mm	1100	1100	1100	1100	1100	1100
	Structure of guideway	-	Rectangular 2 guideways	Rectangular 2 guideways	Rectangular 2 guideways	Rectangular 2 guideways	Rectangular 2 guideways	Rectangular 2 guideways
	Max. weight of workpiece	t	16	16	16	16	16	16
Spindle	Spindle nose type	-	A2-15	A2-15	A2-15	A2-15	A2-15	A2-15
	Spindle center taper	°	75	75	75	75	75	75
	Spindle bore	mm	φ100	φ100	φ100	φ100	φ100	φ100
	Spindle speed range	r/min	3-320 (stepless in 4 hydraulic gears)	3-320 (stepless in 4 hydraulic gears)	3-320 (stepless in 4 hydraulic gears)	Forward:3.15-315(21 gears); Reverse3.5-291(12 gears)	Forward:3.15-315(21 gears); Reverse3.5-291(12 gears)	Forward:3.15-315(21 gears); Reverse3.5-291(12 gears)
	Chuck	mm	φ1250 4-jaw manual	φ1400 4-jaw manual	φ1600 4-jaw manual	φ1250 4-jaw manual	φ1400 4-jaw manual	φ1600 4-jaw manual
Turret	Cross section of tool shank	mm	50*50	50*50	50*50	50*50	50*50	50*50
	Turret type	-	V4	V4	V4	V4	V4	V4
Tailstock	Tailstock quill diameter	mm	260	260	260	260	260	260
	Tailstock quill taper	-	Metric 80	Metric 80	Metric 80	Metric 80	Metric 80	Metric 80
	Tailstock quill max. stroke	mm	300	300	300	300	300	300
Power system	Main motor power	kW	30	30	30	30	30	30
	Main motor model	-	FANUC α30/6000i	FANUC α30/6000i	FANUC α30/6000i	Y200L-4-B3	Y200L-4-B3	Y200L-4-B3
	Main motor speed	r/min	115/2300	115/2300	115/2300	1470	1470	1470
Others	CNC system	-	FANUC 0i-TF (1)	FANUC 0i-TF (1)	FANUC 0i-TF (1)	FANUC 0i-TF (1)	FANUC 0i-TF (1)	FANUC 0i-TF (1)
	Width*Height	mm	3200*2220	3200*2750	3200*2950	3200*2220	3200*2750	3200*2950
	Length	mm	8400/11400/15400	8400/11400/15400	8400/11400/15400	8400/11400/15400	8400/11400/15400	8400/11400/15400
	Net weight	kg	26000/32600/41400	29500/36100/44900	33500/40100/48900	26000/32600/41400	29500/36100/44900	33500/40100/48900
	Note: swing over bed/distance between centers (3000mm-20000mm) can be customized.							

CNC heavy duty lathe (1600mm guideway)

» The max. workpiece for our lathe is 32/40 ton.

» Our lathe is equipped with 1600 mm rectangular 3 guideways.

» There are chip outlets at the bottom of our lathe bed, chip drops into chip container in the foundation, easy for chip removing.

» X axis feed adopts Wittenstein Alpha planetary reducer from Germany.

» Z axis feed adopts Atlanta precision gear and gear rack from Germany.

» Stepless speed regulation in the whole spindle speed range.

» Powerful 75kW DC motor from Shanghai Nanyang, the best manufacturer of DC motor in China.

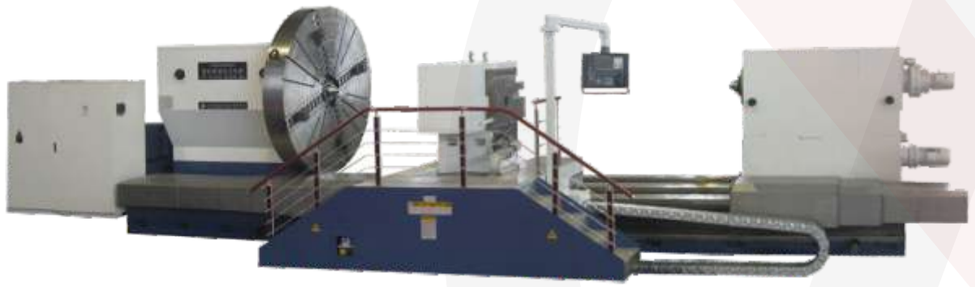
» Disc spring is installed on the back of motorized rotary tailstock spindle to prevent damage to the mechanism due to thermal expansion of the workpiece.

Technical paramenter

Item		Unit	CK61160	CK61200	CK61250
Capacity	Swing over bed	mm	φ1600	φ2000	φ2500
	Swing over carriage	mm	φ1250	φ1600	φ2000
	Max. length of workpiece	mm	5000/8000/12000	5000/8000/12000	5000/8000/12000
	Span of guideway	mm	1600	1600	1600
	Structure of guideway	-	Rectangular 3 guideways	Rectangular 3 guideways	Rectangular 3 guideways
	Max. faceplate torque	kN.m	80	80	80
	Max. weight of workpiece	t	32	32	32
Spindle	Taper hole of spindle	-	75°; φ120	75°; φ120	75°; φ120
	Spindle speed regulation	-	Stepless	Stepless	Stepless
	Spindle speed range	r/min	0.8-160	0.8-160	0.8-160
	Face plate diameter	mm	1600/1800	1600/1800	1600/1800
	Chuck	mm	φ1600mm 4-jaw manual	φ1800mm 4-jaw manual	φ2000mm 4-jaw manual
Turret	Cross section of tool shank	mm	70*70	70*70	70*70
	Turret size	mm	440*440	440*440	440*440
	Turret type	-	V4	V4	V4
	Max. cutting force of single turret	kN	80	80	80
	Total cutting force	kg	16000	16000	16000
Tailstock	Tailstock quill diameter	mm	φ300	φ300	φ300
	Tailstock quill taper	-	φ100 taper 1:7	φ100 taper 1:7	φ100 taper 1:7
	Tailstock quill max. stroke	mm	300	300	300
Power system	Main motor power	kW	75	75	75
	Spindle motor type	-	DC motor	DC motor	DC motor
	Main motor speed	r/min	400-1200	400-1200	400-1200
Others	CNC system	-	FANUC 0i-TF(1)	FANUC 0i-TF(1)	FANUC 0i-TF(1)
	Width*Height	mm	2280*3500	2280*3500	2280*3500
	Length	mm	10600/13600/176000	10600/13600/176000	10600/13600/176000
	Note: swing over bed/distance between centers (4000mm-20000mm) can be customized.				

CNC heavy duty lathe (2090mm guideway)

- The max. workpiece for our lathe is 63/80 ton.
- Our lathe is equipped with 2090 mm rectangular 3 guideways.
- SP class spindle bearings.
- Power clamping screws from JAKOB ANTRIEBSTECHNIK from Germany are installed on our chuck.
- Stepless speed regulation in the whole spindle speed range.
- Powerful 144kW DC motor from Shanghai Nanyang, the best manufacturer of DC motor in China.
- Disc spring is installed on the back of motorized rotary tailstock with SP class bearing to prevent damage to the mechanism due to thermal expansion of the workpiece.



Technical paramenter

Item		Unit	CK61250(63T)
Capacity	Swing over bed	mm	φ2500
	Swing over carriage	mm	φ2200
	Max.length of workpiece	mm	5000/8000/12000
	Span of guideway	mm	2090
	Structure of guideway	-	Rectangular 3 guideways
	Max. faceplate torque	kN·m	120
	Max.weight of workpiece	t	63
Spindle	Taper hole of spindle	-	75° φ196.869
	Spindle speed regulation	-	Stepless
	Spindle speed range	r/min	0.5-125
	Face plate diameter	mm	2200
	Chuck	mm	φ2500mm 4-jaw manual
Turret	Cross section of tool shank	mm	80*80
	Stroke of X-axis (transverse)	mm	1000
	Rapid traverse speeds of X-axis	mm/min	3000
	Stroke of Z-axis (longitudinal)	mm	5000-18000
	Rapid traverse speeds of Z-axis	mm/min	6000
	Max. stroke of tool plate	mm	300
	Max. cutting force of single turret	kN	120
	Total cutting force	kN	200
Tailstock	Tailstock quill diameter	mm	560
	Tailstock quill taper	-	75° φ160 (taper 1:4)
	Tailstock quill max. stroke	mm	200
Power system	Main motor power	kW	144
	Main drive motor type	-	DC motor
	Main drive motor speed range	r/min	540-1900
Others	CNC system	-	FANUC 0i-TF(1)
	Width*Height	mm	4000*3800
	Length	mm	12000/15000/19000
	Note: swing over bed/distance between centers (5000mm-20000mm) can be customized.		

CNC roll turning lathe

- Max. roll turning diameter 500/650/850/1000/1250/1600 mm.
- Spindle is made of chrome molybdenum alloy steel, with good rigidity, suitable for heavy cutting.
- Rectangular 3 guideways.
- The max. workpiece for our lathe is 3600/4000/8000/20000 kg.
- Rotary tailstock.
- Eequipped with CAXA automatic programming software, the outer circle and pass of the roll can be automatically programmed.
- Horizontal hydraulic turret, power tooling turret, pneumatic chuck, hydraulic tailstock, electrical rotary tailstock, milling power head and hydraulic steady rest are for option.

Technical paramenter

Item		Unit	CK8450	CKQ8465	CKQ8485	CK8465	CK8485	CKQ84100	CK84100	CK84125	CK84160
Capacities	Max. roll turning diameter	mm	φ500	φ650	φ850	φ650	φ850	φ1000	φ1000	φ1250	φ1600
	Max. length of workpiece	mm	2500/3000	2500/3000	2500/3000	3500/5000	3500/5000	3500/5000	5000/6000/8000	5000/6000/8000	5000/6000/8000
	Max. turning length	mm	2300/3000	2300/3000	2300/3000	3000/4800	3000/4800	3000/4800	4800/5800/7800	4800/5800/7800	4800/5800/7800
	Span of guideways	mm	850/900	850/900	850/900	1100	1100	1100	1450	1450	1450
	Max. weight of workpiece	kg	3600/4000	3600/4000	3600/4000	8000	8000	8000	20000	20000	20000
Spindle	Spindle nose type	-	C2-11	C2-11	C2-11	A2-15	A2-15	A2-15	A2-15	A2-15	A2-15
	Spindle bore	mm	φ100	φ100	φ100	φ130	φ130	φ130	φ96	φ96	φ96
	Taper hole of spindle	-	Metric120	Metric120	Metric120	Metric 140	Metric 140	Metric 140	Metric 140	Metric 140	Metric 140
	Taper of spindle center	-	MT5	MT5	MT5	MT6	MT6	MT6	MT6	MT6	MT6
	Spindle speed range	r/min	10-500	10-500	10-500	8-350	8-350	8-350	5-200	5-200	5-200
	Chuck (4-jaw manual)	mm	φ500-630	φ500-630	φ500-630	φ630-800	φ630-800	φ630-800	φ800-1125	φ800-1125	φ800-1125
Turret	Cross section of tool shank	mm	40*40	40*40	40*40	40*40	40*40	40*40	50*50	50*50	50*50
	Turret type	-	V4	V4	V4	V4	V4	V4	V4	V4	V4
Feed	Max. stroke of X-axis	mm	330	330	330	450	450	450	450	450	450
	Min. feed of X-axis/Z-axis	mm	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	Rapid traverse speed of X-axis	m/min	3	3	3	3	3	3	3	3	3
	Rapid traverse speed of Z-axis	m/min	6	6	6	6	6	6	6	6	6
Tailstock	Tailstock quill diameter	mm	200	200	200	220	220	220	300	300	300
	Tailstock quill taper	-	MT5	MT5	MT5	MT6	MT6	MT6	MT6	MT6	MT6
	Tailstock quill max. stroke	mm	310	310	310	330	330	330	310	310	310
Others	CNC system	-	FANUC	FANUC	FANUC	FANUC	FANUC	FANUC	FANUC	FANUC	FANUC
	Spindle motor power	kW	AC22 (30)	AC22 (30)	AC22 (30)	AC30/AC45	AC30/AC45	AC30/AC45	AC75	AC75	AC75
	Machining accuracy	-	IT6-IT7	IT6-IT7	IT6-IT7	IT6-IT7	IT6-IT7	IT6-IT7	IT6-IT7	IT6-IT7	IT6-IT7
	Surface roughness	μm	Ra 0.8	Ra 0.8	Ra 0.8	Ra 0.8	Ra 0.8	Ra 0.8	Ra 0.8	Ra 0.8	Ra 0.8

CNC oil country lathe (550/600mm guideway)

» Spindle bore 130/200/225/280 mm.

» Double hollow chucks.

» The max. workpiece for our lathe is 3000/4000 kg.

» Our lathe guide is quenched by induction quenching device, hardened layer thickness is 2-3mm, hardness is 52 HRC.

» The precision of All our lathes will be measured and compensated by RENISHAW laser interferometer, to make sure both positioning precision and repositioning precision are excellent.

» Horizontal hydraulic turret, power tooling turret, pneumatic chuck, hydraulic tailstock, electrical rotary tailstock, milling power head and hydraulic steady rest are for option.

» The precision of our lathe complies with API spec 5B standard for threading.

Technical paramenter

Item		Unit	QKJ1213	QK1219	QK1222	QK1225	QK1227
Capacity	Swing over bed	mm	φ630/800	φ630/800	φ630/800	φ800	φ800
	Swing over carriage	mm	φ340/520	φ340/520	φ340/520	φ480	φ480
	Distance between centers	mm	1000/1500/3000	1000/1500/3000	1000/1500/3000	1000/1500/3000	1000/1500/3000
	Pipe threading range	mm	φ30-126	φ50-193	φ50-220	φ120-250	φ130-270
	Span of guideway	mm	550	550	550	600	600
	Max. weight of workpiece	t	3	3	3	4	4
Spindle	Spindle bore	mm	φ130	φ200	φ225	φ255	φ280
	Spindle speed regulation	-	stepless in 3 manual gears	stepless in 4 manual /hydraulic gears	stepless in 4 manual /hydraulic gears	stepless in 4 manual /hydraulic gears	stepless in 4 manual /hydraulic gears
	Spindle speed range	r/min	30-720	20-550	20-550	20-420	20-420
	Chuck	mm	φ400 3-jaw manual	φ500 3-jaw manual	φ500 3-jaw manual	φ630 4-jaw manual	φ630 4-jaw manual
Turret	Cross section of tool shank	mm	32*32	32*32	32*32	32*32	32*32
	Turret type	-	V4	V4	V4	V4	V4
Feed	Max. stroke of X-axis	mm	320/420	320/420	320/420	420	420
	Max. stroke of Z-axis	mm	850/1350/2850	850/1350/2850	850/1350/2850	850/1350/2850	850/1350/2850
	Rapid traverse speed of X-axis	mm/min	4000	4000	4000	4000	4000
	Rapid traverse speed of Z-axis	mm/min	6000	6000	6000	6000	6000
Tailstock	Tailstock quill diameter	mm	φ100	φ100	φ100	φ120	φ120
	Tailstock quill taper	-	MT5	MT5	MT5	MT6	MT6
	Tailstock quill max. stroke	mm	250	250	250	250	250
Power system	Main motor power	kW	11	11	11	15	15
	Coolant pump motor power	kW	0.125	0.125	0.125	0.125	0.125
Others	CNC system	-	Siemens 808D	Siemens 808D	Siemens 808D	Siemens 808D	Siemens 808D
	Width*Height	mm	1800*1850	1880*1850	1880*1850	1930*1900	1930*1900
	Length	mm	3300/3800/5300	3300/3800/5300	3300/3800/5300	3600/4100/5600	3600/4100/5600
	Net weight	kg	4500/5000/6000	4600/5100/6100	4700/5200/6200	6000/6500/7500	6200/6700/7700
	Note: swing over bed/distance between centers can be customized.						

CNC oil country lathe (755mm guideway)

» Spindle bore 280/330/390/440/520 mm.

» Double 4-jaw hollow chucks.

» The max. workpiece for our lathe is 6000 kg.

» Our lathe guide is quenched by induction quenching device, hardened layer thickness is 2-3mm, hardness is 52 HRC.

» The precision of All our lathes will be measured and compensated by RENISHAW laser interferometer, to make sure both positioning precision and repositioning precision are excellent.

» Horizontal hydraulic turret, power tooling turret, pneumatic chuck, hydraulic tailstock, electrical rotary tailstock, milling power head and hydraulic steady rest are for option.

» The precision of our lathe complies with API spec 5B standard for threading.

Technical paramenter

Item		Unit	QK1232	QK1238	QK1243	QK1250	QK1263
Capacity	Swing over bed	mm	φ1000	φ1000	φ1000	φ1200	φ1400
	Swing over carriage	mm	φ610	φ610	φ610	φ710	φ800
	Distance between centers	mm	1500/3000	1500/3000	1500/3000	1500/3000	1500/3000
	Pipe threading range	mm	φ190-320	φ190-380	φ270-430	φ330-510	φ330-630
	Span of guideway	mm	755	755	755	755	1100
	Max. weight of workpiece	t	6	6	6	6	10
Spindle	Spindle bore	mm	φ330	φ390	φ440	φ520	φ640
	Spindle speed regulation	-	stepless in 3 manual/hydraulic gears	stepless in 3 manual/hydraulic gears	stepless in 3 manual/hydraulic gears	stepless in 3 manual/hydraulic gears	stepless in 3 manual/hydraulic gears
	Spindle speed range	r/min	10-280	8-205	8-205	8-190	2-120
	Chuck	mm	φ780 4-jaw electric	φ850 4-jaw electric	φ1000 4-jaw electric	φ1000 4-jaw electric	φ1250 4-jaw manual
Turret	Cross section of tool shank	mm	40*40	40*40	40*40	50*50	50*50
	Turret type	-	V4	V4	V4	V4	V4
Feed	Max. stroke of X-axis	mm	520	520	520	520	750
	Max. stroke of Z-axis	mm	1250/2750	1250/2750	1250/2750	1250/2750	1250/2750
	Rapid traverse speed of X-axis	mm/min	4000	4000	4000	4000	4000
	Rapid traverse speed of Z-axis	mm/min	4000	4000	4000	4000	4000
Tailstock	Tailstock quill diameter	mm	φ160	φ160	φ160	φ160	φ260 (rotary quill)
	Tailstock quill taper	-	MT6	MT6	MT6	MT6	Metric 80
	Tailstock quill max. stroke	mm	300	300	300	300	300
Power system	Main motor power	kW	22	22	22	22	37
	Coolant pump motor power	kW	0.125	0.125	0.125	0.125	0.125
Others	CNC system	-	Siemens 808D	Siemens 808D	Siemens 808D	Siemens 808D	Siemens 808D
	Width*Height	mm	2080*2080	2220*2120	2220*2120	2300*2200	2500*2500
	Length	mm	5000/6500	5000/6500	5000/6500	5000/6500	5600/7100
	Net weight	kg	11500/12500	12000/13000	13000/14000	15000/16000	18000/19300
	Note: swing over bed/distance between centers can be customized.						

Slant bed CNC oil country lathe

- Spindle bore 120/150/200/225/230/280/305/390/520 mm.
- Double pneumatic/electrical hollow chucks.
- 45° slant bed, with good precision and rigidity, easy for chip removing.
- Our lathe guide is quenched by induction quenching device, hardened layer thickness is 2-3mm, hardness is 52 HRC.
- Horizontal hydraulic turret, power tooling turret, electrical rotary tailstock, milling power head and hydraulic steady rest are for option.
- The precision of our lathe complies with API spec 5B standard for threading.

Technical paramenter

Item		Unit	QKX1212	QKX1215	QKX1222	QKX1227	QKX1238	QKX1250	QKX1219J	QKX1222J	QKX1225J	QKX1227J
Bed slant angle		°	45	45	45	45	45	45	45	45	45	45
Capacity	Swing over bed	mm	φ630	φ630	φ680	φ900	φ1200	φ1200	φ600	φ600	φ600	φ600
	Max. turning diameter	mm	φ600	φ600	φ600	φ600	φ710	φ710	φ450	φ450	φ450	φ450
	Swing over cross slide	mm	φ440	φ440	φ450	φ600	φ710	φ710	φ450	φ450	φ450	φ450
	Distance between centers	mm	1000	1000	920	1000	1000	4000	600	600	600	600
	Pipe threading range	mm	φ110	φ140	φ220	φ300	φ380	φ500	φ190	φ220	φ250	φ275
Spindle	Spindle nose type	-	A2-11	A2-11	A2-15	Short cylinder	Thread	Thread	Short cylinder	Short cylinder	Short cylinder	Short cylinder
	Spindle bore	mm	φ120	φ150	φ230	φ305	φ390	φ520	φ200	φ225	φ255	φ280
	Max. spindle speed	r/min	800	800	550	350	190	190	550	550	450	450
Turret	Cross section of tool shank	mm	32*32	32*32	32*32	32*32	32*32	32*32	32*32	32*32	32*32	32*32
	Turret type	-	H8 Hydraulic	H8 Hydraulic	H8 Hydraulic	H8 Hydraulic	H8 Hydraulic	H8 Hydraulic	V4 Electric	V4 Electric	V4 Electric	V4 Electric
Feed	Stroke of X-axis	mm	335	335	350	375	375	375	350	350	350	350
	Stroke of Z-axis	mm	1100	1100	1140	1250	1250	3750	600	600	600	600
	Rapid traverse speed of X-axis	mm/min	4000	4000	4000	10000	10000	10000	4000	4000	4000	4000
	Rapid traverse speed of Z-axis	mm/min	6000	6000	6000	12000	12000	12000	6000	6000	6000	6000
Tailstock	Tailstock quill diameter	mm	φ130	φ130	φ140	φ170	φ170	φ170	Without tailstock	Without tailstock	Without tailstock	Without tailstock
	Tailstock quill taper	-	MT5	MT5	MT6	MT6	MT6	MT6	-	-	-	-
	Tailstock quill max. stroke	mm	100	100	200	180	180	180	-	-	-	-
Power system	Main motor power	kW	15	15	22	22	22	22	22	22	22	22
	Coolant pump motor power	kW	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
Others	Width*Height	mm	2050*2300	2050*2300	2100*2300	2182*2100	2482*2300	2482*2300	2250*2350	2250*2350	2250*2350	2250*2350
	Length	mm	4850	4850	6600	6700	7000	10000	5100 (including chip conveyor)	5100 (including chip conveyor)	5100 (including chip conveyor)	5100 (including chip conveyor)
	Net weight	kg	7500	7500	12000	14300	21500	28000	10300	10500	11300	11500

High performance CNC oil country lathe

- Spindle bore 190/350 mm.
- Double pneumatic hollow chucks.
- 45° slant bed, with good precision and rigidity, easy for chip removing.
- Equipped with 2 turrets for rough and finish turning, the threading efficiency is 4 times of ordinary oil country lathe.
- Both X and Z axes adopt linear guideway.
- 132kW DC spindle motor.
- The precision of our lathe complies with API spec 5B standard for threading.

Technical paramenter

Item		Unit	QKH-178	QKH-340
Bed slant angle		°	45	45
Capacities	Pipe threading range	mm	φ60-178	φ140-340
	Pipe type	-	ERW; High frequency welded steel pipe; Seamless steel pipe	ERW; High frequency welded steel pipe; Seamless steel pipe
	Quality standard of threads	-	API-5B	API-5B
	Range of workpiece length	m	6-12.5	6-12.5
	Form of guideway	mm	Linear guideway	Linear guideway
Spindle	Spindle speed range	r/min	50-900	50-500
	The distance between spindle center to floor	mm	1200	1200
Chuck	Front chuck type	-	Hydraulic, pre-centering	Hydraulic, pre-centering
	Rear chuck type	-	Hydraulic	Hydraulic
Turret	Upper turret type	-	6-position	6 positions
	Lower turret type	-	Fixed	Fixed
	Repeat positioning precision of lower turret	mm	±0.005	±0.005
Others	CNC system	mm	FANUC	FANUC
	Main motor power	kW	132	132
	Workpiece surface roughness	-	Ra1.6	Ra1.6
	Width*Height	mm	2120*2100	2410*2100
	Length	mm	4448	4613
	Lathe weight	kg	16500	20000
	Feeding equipment weight	kg	7000	12000

Slant bed CNC lathe (AP series)

- Spindle is made of chrome molybdenum alloy steel, with good rigidity, suitable for heavy cutting.
- P4 class precision NSK/NTN spindle bearings.
- HIWIN/PMI P4 class precision ball screw.
- Power tool is for option.
- The precision of All our lathes will be measured and compensated by RENISHAW laser interferometer, to make sure both positioning precision and repositioning precision are excellent.
- GSK980T CNC system.

Technical paramenter

Item		Unit	AP32	AP36	AP36B	AP46DP
Capacity	Bed slant angle	°	30	30	30	45
	Swing over bed	mm	Φ320	Φ360	Φ360	Φ420
	Swing over carriage	mm	Φ110	Φ110	Φ110	Φ360
	Max. turning length	mm	260	230	330	200 (Turret)/ 280 (Gang tool post)
	Max. carriage length	mm	700	700	600	500
Spindle	Spindle nose type	-	A2-5	A2-5	A2-5	A2-5
	Spindle bore	-	Φ51	Φ48	Φ56	Φ52
	Allowable bar diameter through spindle bore	mm	Φ40	Φ40	Φ42	Φ42
	Max. spindle speed	r/min	4500	4500	5000	5000
	Spindle motor power	kW	3.7	5.5	5.5	7.5
	Collet/Chuck specification	-	CL42-A5 Collet	CL42-A5 Collet	CL42-A5 Collet	6 inch Chuck
Stroke & Feed	Max. X-axis stroke	mm	300	380	410	750
	Max. Z-axis stroke	mm	280	250	330	290
	Rapid traverse speed of X-axis/Z-axis	m/min	X:20/Z:20	X:20/Z:20	X:24/Z:24	X:18/Z:24
	Max. feeding speed of X-axis/Z-axis	m/min	5	5	5	5
Accuracy	Repeat positioning accuracy of X-axis/Z-axis	mm	0.003	0.003	0.003	0.003
	Positioning accuracy of X-axis/Z-axis	mm	0.006	0.006	0.006	0.005
Turret	Turret type	-	Gang tool post	Gang tool post	Gang tool post	Hydraulic turret + Gang tool post
	No. of switching positions	-	-	-	-	8
	Cross section of tool shank	mm	20*20	20*20	20*20	20*20
	Boring bar diameter	mm	Φ25	Φ25	Φ25	Φ20 (Hydraulic turret)/ Φ25 (Gang tool post)
Others	CNC system	-	GSK988T	GSK988T	GSK988T	GSK988T
	Length*Width*Height	mm	1780*1380*1550	2120*1520*1650	2600*1700*1600	2000*1550*1600
	Weight	kg	1250	1570	3000	2600

Slant bed CNC lathe (AD series)

- Spindle is made of chrome molybdenum alloy steel, with good rigidity, suitable for heavy cutting.
- P4 class precision NSK/NTN spindle bearings.
- Auto Strong hydraulic chuck.
- C3 class ball screw with NSK ball screw bearings.
- GSA hydraulic turret.
- Hydraulic tailstock with programmable quill.
- Fanuc 0i-TF CNC system.

Technical paramenter

Item		Unit	AD15B	AD25	AD35	AD45
Capacities	Bed slant angle	°	45	45	45	45
	Swing over bed	mm	φ440	φ520	φ660	φ850
	Max. length of workpiece	mm	600/850/1100	625/1000/1500/2000/3000	890/1640/2000/3000	1500/2000/3000
	Max. turning diameter (shaft/disc workpiece)	mm	φ220/φ320	φ360/φ420	φ420/φ550	φ650 /φ800
	Max. turning length	mm	450/700/950	530/905/1405/1905/2905	780/1530/1890/2890	1420/1920/2920
	Max. weight of workpiece	kg	500	800	1000	1000
Spindle	Spindle nose type	-	A2-6	A2-8	A2-8	A2-11
	Spindle bore	mm	φ62	φ87	φ92	φ131
	Max. torque of spindle	N·m	128	338	652/313 (Dual speed motor)	1534
	Front bearing inner diameter	mm	φ100	φ130	φ160	200
	Spindle speed range	r/min	45-4000	35-3500	25-2500	10-2000
	Bore diameter of hollow hydraulic chuck	mm	φ52	φ72	φ81	φ120
	Chuck	inch	8	10/12	12	15
Turret	Cross section of tool shank	mm	25*25	25*25	25*25	32*32
	Turret type	-	H8 (hydraulic)	H12 (hydraulic)	H12 (hydraulic)	H12 (hydraulic)
	Max. boring diameter	mm	φ40	φ40	φ50	φ60
Stroke & Feed	Stroke of X-axis	mm	190	230	305	450
	Stroke of Z-axis	mm	460/710/960	590/965/1465/1965/2965	855/1605/1965/2965	1450/1950/2950
	Rapid traverse speed of X-axis	m/min	18	12	12	12
	Rapid traverse speed of Z-axis	m/min	20	15	15	15
Tailstock	Tailstock stroke	mm	460	490/865/1365/1865/2865	706/1456/1816/2816	1900
	Tailstock quill diameter	mm	φ80	φ85	φ110	φ140
	Tailstock quill taper	-	MT 5	MT 5	MT 5	MT 6
	Tailstock quill max. stroke	mm	80	80	100	130
Others	Main motor power	kW	Fanuc AC11/9	Fanuc AC18.5/15	Fanuc AC30/22	Fanuc AC100
	CNC system	-	Fanuc 0i-TF(5)	Fanuc 0i-TF(1)	Fanuc 0i-TF(1)	Fanuc 0i-TF(1)
	Width*Heigh	mm	1485*1700	1545*1950	1820/2130	2350/2600
	Length	mm	2575/2875/3470	3000/3380/4550/4960/6160	3620/4725/5825/7000	6360/6860/7860
	Net weight	kg	3600/4200/4800	5000/5500/6500/7500/8500	8000/10000/11000/15000	15000/16000/18000

Slant bed CNC lathe (AE series)

» X/Z axes repositioning accuracy 0.003 mm, X/Z axes positioning accuracy 0.005 mm.

» Ultra-precision spindle, spindle nose runout 0.003 mm,spindle bore runout 0.002 mm, balance grade G1.

» The spindle is equipped with NSK P4 grade ultra-precision NN type bearings with optimized span (4 bearings in the front and 2 bearings in the back), precision and rigidity are warranted under the condition of high speed rotation and heavy cutting.

» Both X and Z axes adopt precision linear guides from HIWIN/PMI.

» Both X and Z axes adopt C3 class precision ball screws from HIWIN/PMI with P4 class precision NSK/NTN ball screw bearings.

» Rapid traverse speed is up to 30 m/min, if necessary, 36 m/min can be realized.

Technical paramenter

Item		Unit	AE40	AE45	AE50	AE40T	AE46DP	AE50B
Capacity	Bed slant angle	°	45	45	30	45	45	30
	Swing over bed	mm	φ420	φ510	φ520	φ420	φ420	φ520
	Swing over carriage	mm	φ400	φ450	φ500	φ400	φ360	φ500
	Max. length of workpiece	mm	610	820	720	610	-	720
	Max. turning length	mm	380	600	500	380	280 (Turret) 200 (Gang toolpost)	500
	Max. swing over gang toolpost	mm	-	-	-	-	φ160	-
Spindle	Spindle nose type	-	A2-6	A2-6	A2-8	A2-6	A2-5	A2-6
	Spindle bore	-	φ56	φ62	φ82	φ56	φ48	φ62
	Allowable bar diameter through spindle bore	mm	φ50	φ55	φ75	φ50	φ42	φ55
	Max. spindle speed	r/min	4500	4500	3000	4500	5000	4000
	Chuck	inch	8	10	12	8	6	10
Turret	Cross section of tool shank	mm	25*25	25*25	25*25	25*25	20*20	25*25
	Turret type	-	Hydraulic turret	Hydraulic turret	Hydraulic Turret	Hydraulic turret	Hydraulic Turret	Hydraulic Turret
	No. of switching positions	-	8	8	8	8	8	8
	Boring bar diameter	mm	φ32	φ32	φ40	φ32	φ20 (Hydraulic turret) φ25 (Gang toolpost)	φ40
Stroke & Feed	X-axis effective stroke	mm	215	230	255	215	780	255
	Z-axis effective stroke	mm	400	620	520	400	290	520
	Rapid traverse speed of X-axis/Z-axis	m/min	X:18/Z:24	X:18/Z:24	X:24/Z:30	X:18/Z:24	X:18/Z:24	X:24/Z:30
	Max. feeding speed of X-axis/Z-axis	m/min	5	5	5	5	5	5
Tailstock	Tailstock quill diameter	mm	φ80	φ80	φ80	φ80	-	φ80
	Tailstock quill taper	-	MT5	MT5	MT5	MT5	-	MT5
	Tailstock quill max. stroke	mm	100	100	100	100	-	100
Accuracy	Repeat positioning accuracy of X-axis/Z-axis	mm	0.003	0.003	0.003	0.003	0.003	0.003
	Positioning accuracy of X-axis/Z-axis	mm	0.005	0.005	0.005	0.005	0.005	0.005
Others	Spindle motor power	kW	11-15	11-15	11-15	11-15	7.5-11	11-15
	Electricity capacity	KVA	15	15	15	15	12	15
	CNC system	-	Siemens 808D	Siemens 808D	Siemens 808D	Siemens 808D	Siemens 808D	Siemens 808D
	Length*Width*Height	mm	2300*1600*1950	2600*1700*1960	2650*1850*1850	2500*1750*1950	2000*1550*1600	2650*1850*1850
	Net weight	kg	3000	3800	4000	3000	1800	4000

Slant bed CNC turning center (AE-YD series)

» Total 8 power heads can be installed, milling, drilling, tapping and reaming functions can be realized.

» X/Y/Z axes repositioning accuracy 0.003 mm, X/Y/Z axes positioning accuracy 0.005 mm.

» Ultra-precision spindle, spindle nose runout 0.003 mm,spindle bore runout 0.002 mm, balance grade G1.

» The spindle is equipped with NSK P4 grade ultra-precision NN type bearings with optimized span.

» Y-axis effective stroke 220 mm.

» Both X and Z axes adopt precision linear guides from Rexroth.

Technical paramenter

Item		Unit	AE45YD	AE46YD	AE52YD
Capacity	Bed slant angle	°	30	30	30
	Swing over bed	mm	φ450	φ500	φ500
	Swing over carriage	mm	φ130	φ200 (Disc type)	φ200 (Disc type)
	Max. swing over gang toolpost	mm	φ130	φ140	φ140
Spindle	Spindle nose type	-	A2-5	A2-5	A2-6
	Spindle bore	mm	φ56	φ56	φ66
	Allowable bar diameter through spindle bore	mm	φ40	φ40	φ50
	Max. spindle speed	r/min	4500	4500	4500
	Collet specification	-	CL42-A5	CL42-A5	CL52-A6
Turret	Cross section of tool shank	mm	20*20	20*20	20*20
	Turret type	-	Hydraulic turret	Hydraulic Turret	Hydraulic Turret
	No. of switching positions	-	8	8	8
	Boring bar diameter	mm	φ25	φ25	φ25
Power Head	Power head tool collet Specification	-	ER20 (Axial*4+Radial*4)	ER20 (Axial*4+Radial*4)	ER20 (Axial*4+Radial*4)
	Max. power head speed	r/min	3000	3000	3000
	Max. drilling diameter (Copper and aluminum)	mm	φ12	φ12	φ12
	Max. tapping diameter (Copper and aluminum)	mm	M12	M12	M12
	Tool diameter	mm	φ2-φ13	φ2-φ13	φ2-φ13
Stroke & Feed	X-axis effective stroke	mm	500	450	450
	Y-axis effective stroke	mm	240	220	220
	Z-axis effective stroke	mm	450	350	410
	Rapid traverse speed of X-axis/Z-axis	m/min	X:24/Z:24	X:30/Z:30	X:30/Z:30
	Rapid traverse speed of Y-axis	m/min	15	15	15
Accuracy	Repeat positioning accuracy of X-axis/Z-axis	mm	0.003	0.003	0.003
	Positioning accuracy of X-axis/Z-axis	mm	0.006	0.005	0.005
Others	Spindle motor power	kW	7.5	7.5	5.5
	Electricity capacity	KVA	13	13	16
	CNC system	-	GSK988T	Syntec 21TB	Syntec 21TB
	Length*Width*Height	mm	2500*1800*1800	2400*1800*2150	2400*1800*2150
	Net weight	kg	3000	3000	3000

Slant bed CNC turning center (AE-Y series)

» Equipped with 12 positions power tooling turret which can realize milling, drilling, tapping and reaming functions.

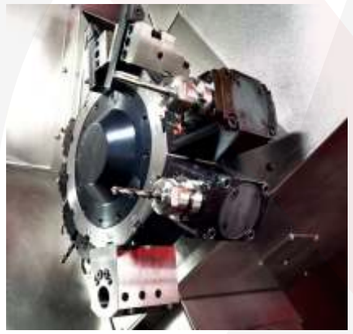
» X/Y/Z axes repositioning accuracy 0.003 mm, X/Y/Z axes positioning accuracy 0.005 mm, positioning accuracy of C-axis 0.001°

» Ultra-precision spindle, spindle nose runout 0.003 mm,spindle bore runout 0.002 mm, balance grade G1.

» The spindle is equipped with NSK P4 grade ultra-precision NN type bearings with optimized span.

» Y-axis effective stroke is up to ±50 mm.

» Both X and Z axes adopt precision linear guides from HIWIN/PMI.



Technical paramenter

Item		Unit	AE45Y	AE55Y
Capacity	Bed slant angle	°	45	45
	Swing over bed	mm	φ510	φ520
	Swing over carriage	mm	φ420	φ500
	Max. length of workpiece	mm	720	720
	Max. turning length	mm	500	500
	Max. drilling and milling diameter	mm	0°φ420/90°φ420	-
Spindle	Spindle nose type	-	A2-5	A2-6
	Spindle bore	mm	φ52	φ62
	Allowable bar diameter through spindle bore	mm	φ45	φ55
	Max. spindle speed	r/min	4500	4000
	Chuck	inch	8	10
Turret	Cross section of tool shank	mm	20*20	25*25
	Turret type	-	Power tooling turret	Power tooling turret
	No. of switching positions	-	12	12
	Boring bar diameter	mm	φ25	φ32
	Turret motor power	kW	2.7	2.7
	Max. speed of turret motor	r/min	3000	3000
	Live tool holder	-	BMT40 ER16	-
	Power head tool collet Specification	-	-	ER25
Stroke & Feed	X-axis effective stroke	mm	230	250
	Y-axis effective stroke	mm	±30	±50
	Z-axis effective stroke	mm	500	500
	Rapid traverse speed of X-axis/Z-axis	m/min	X:30/Z:30	X:30/Z:30
	Rapid traverse speed of Y-axis	m/min	15	30
	Max. feeding speed of X-axis/Z-axis	m/min	5	5
Tailstock	Tailstock quill diameter	mm	φ80	φ80
	Tailstock quill taper	-	MT5	MT5
	Tailstock quill max. stroke	mm	100	100
Accuracy	Repeat positioning accuracy of X-axis/Z-axis	mm	0.003	0.003
	Positioning accuracy of X-axis/Z-axis	mm	0.005	0.005
	Positioning accuracy of C-axis	°	0,001	0,001
Others	Spindle motor power	kW	11-15	11-15
	Electricity capacity	KVA	15	30
	CNC system	-	Fanuc 0i-TF	Fanuc 0i-TF
	Length*Width*Height	mm	2600*1700*1960	2650*1850*1850
	Net weight	kg	3800	4500

Slant bed CNC turning center (AE-CX/X series)

» Equipped with 12 positions power tooling turret which can realize milling, drilling, tapping and reaming functions.

» X/Z axes repositioning accuracy 0.003 mm, X/Z axes positioning accuracy 0.005 mm, positioning accuracy of C-axis 0.001°

» Ultra-precision spindle, spindle nose runout 0.003 mm,spindle bore runout 0.002 mm, balance grade G1.

» The spindle is equipped with NSK P4 grade ultra-precision NN type bearings with optimized span.

» Both X and Z axes adopt C3 class precision ball screws from HIWIN/PMI with P4 class precision NSK/NTN ball screw bearings.

» Rapid traverse speed is up to 30 m/min, if necessary, 36 m/min can be realized.

Technical paramenter

Item		Unit	AE45CX	AE55X
Capacity	Bed slant angle	°	45	30
	Swing over bed	mm	φ510	φ520
	Swing over carriage	mm	φ450	φ500
	Max. length of workpiece	mm	820	720
	Max. turning length	mm	600	500
Spindle	Spindle nose type	-	A2-6	A2-6
	Spindle bore	-	φ62	φ62
	Allowable bar diameter through spindle bore	mm	φ55	φ55
	Max. spindle speed	r/min	4500	4000
	Chuck	inch	10	10
Turret	Cross section of tool shank	mm	20*20	25*25
	Turret type	-	Power tooling turret	Power tooling turret
	No. of switching positions	-	12	12
	Boring bar diameter	mm	φ20	φ32
	Turret motor power	kw	2.2	2.7
	Max. speed of turret motor	r/min	4000	3000
	Rated cutting torque	N·m	14	-
	Live tool holder	-	VDI30 DIN69880	-
	Power head tool collet Specification	-	-	ER25
Stroke & Feed	X-axis effective stroke	mm	230	250
	Z-axis effective stroke	mm	620	510
	Rapid traverse speed of X-axis/Z-axis	m/min	X:18/Z:24	X:30/Z:30
	Max. feeding speed of X-axis/Z-axis	m/min	5	5
Tailstock	Tailstock quill diameter	mm	φ80	φ80
	Tailstock quill taper	-	MT5	MT5
	Tailstock quill max. stroke	mm	100	100
Accuracy	Repeat positioning accuracy of X-axis/Z-axis	mm	0.003	0.003
	Positioning accuracy of X-axis/Z-axis	mm	0.005	0.005
	Positioning accuracy of C-axis	°	0,001	0,001
Others	Spindle motor power	kW	11	11-15
	Electricity capacity	KVA	20	30
	CNC system	-	Fanuc 0i-TF	Fanuc 0i-TF
	Length*Width*Height	mm	2800*1600*1950	2650*1850*1850
	Net weight	kg	3800	4000

Vertical CNC lathe

» The max. workpiece for our lathe is 500/600/1500 kg.

» Max. height of workpiece 700/800 mm.

» Both X and Z axes adopt precision linear guides from HIWIN.

» Both X and Z axes adopt precision ball screws from HIWIN with precision FAG ball screw bearings.

» Waterproof hydraulic chuck.

» The precision of All our lathes is measured and compensated by RENISHAW laser interferometer, to make sure both positioning precision and repositioning precision are excellent.

» Hydraulic controlled doule tool toolpost, horizontal hydraulic turret, power tooling turret and milling power head are for option.

Technical paramenter

Item		Unit	VTL500	VTL700	VTL900	VTL1250
Capacity	Max. swing diameter	mm	φ500	φ770	φ970	φ1300
	Max. turning diameter	mm	φ500	φ700	φ900	φ1250
	Max. swing diameter over carriage	mm	φ500	φ400	φ600	φ800
	Max. height of workpiece	mm	700	700	700	800
	Max. weight of workpiece	kg	500	500	600	1500
	Rated power of main motor	kW	11	11	15	15
Spindle	Spindle speed range	r/min	50-1200	50-1200	50-800	20-300
	Speed ratio of reducer	-	1:4.84	1:4.84	1:4.84	1:4.84
	Synchronous belt reduction ratio	-	1:2.5	1:2.5	1:2.5	1:2.5
	Spindle nose type	-	A2-6	A2-8	A2-11	A2-11
Feed	Max. stroke of X-axis	mm	300	570	630	810
	Max. stroke of Z-axis	mm	500	750	750	850
	X-axis roller linear rail width	mm	35	45	45	55
	Z-axis roller linear rail width	mm	45	55	55	55
	X-axis ball screw diameter * pitch	mm	32*10	40*10	40*10	50*10
	Z-axis ball screw diameter * pitch	mm	40*10	50*10	50*10	50*10
	Feeding speed of X-axis/Z-axis	mm/min	0.05-4000	0.05-4000	0.05-4000	0.05-4000
	Rapid traverse speed of X-axis/Z-axis	m/min	15	15	15	15
	Feeding motor torque of X-axis/Z-axis	N·m	15	15	18	23
Turret	Cross section of tool shank	mm	32*32	32*32	32*32	32*32
	Turret type	-	V4	V4	V4	V4
	Boring bar diameter	mm	φ40	φ40	φ40	φ40
Precision	Repeat positioning accuracy of X-axis/Z-axis	mm	0.01	0.01	0.01	0.01
	Positioning accuracy of X-axis/Z-axis	mm	0.02	0.02	0.02	0.02
Others	CNC system	-	Fanuc 0i-TF	Fanuc 0i-TF	Fanuc 0i-TF	Fanuc 0i-TF
	Length*Width*Height	mm	1205*1200*2430	1500*1360*2726	1550*1760*3067	1650*1860*3070
	Net weight	kg	5000	6600	8600	9600

High precision vertical CNC lathe

» X/Z axes repositioning accuracy 0.004 mm, X/Z axes positioning accuracy 0.008 mm, positioning accuracy of C-axis 0.001°

» Ultra-precision spindle, spindle nose runout 0.003/0.004 mm.

» The spindle is equipped with NSK precision bearings.

» Waterproof hydraulic chuck from AUTO STRONG; Hydraulic turret from LIO SHING.

» Both X and Z axes adopt precision linear guides from HIWIN.

» Both X and Z axes adopt precision ball screws from HIWIN with precision NSK ball screw bearings.

» Hydraulic controlled doule tool toolpost, horizontal hydraulic turret, power tooling turret and milling power head are for option.

Technical paramenter

Item		Unit	VLA450	VLA550	VLA650	VLA850
Capacities	Max. swing diameter	mm	φ600	φ760	φ840	φ950
	Max. turning diameter	mm	φ450	φ550	φ650	φ850
Spindle	Spindle nose	-	A2-8	A2-8	A2-11	A2-11
	Spindle bore	mm	φ72	φ86	φ86	φ100
	Spindle speed	r/min	2500	2000	1500	1200
	Inner diameter of spindle front bearing	mm	φ120	φ130	φ160	φ180
	Chuck diameter	mm/inch	φ304/12	φ381/15	φ450/18	φ610/24
	Spindle end radial runout	mm	0.003	0.003	0.003	0.004
Turret	Cross section of tool shank	mm	25*25	25*25	25*25	32*32
	Boring bar diameter	mm	φ40	φ50	φ50	φ50
	Turret type	-	H8	H8	H8	H8
	Tool disc swing	mm	400	450	480	520
Stroke	Stroke of X-axis	mm	270	350	380	880
	Stroke of Z-axis	mm	600	700	850	950
Servo motor	Spindle servo motor power	kW	15	18.5	18.5	18.5
	Main motor max. torque	N.m	180	240	240	275
	Spindle max. torque	N·m	450	600	720	825
	Servo motor power of X-axis	kW	2.5	3	3	3
	Servo motor torque of X-axis	N·m	Stall torque 20/Max. torque 45	Stall torque 27/Max. torque 68	Stall torque 27/Max. torque 68	Stall torque 30/Max. torque 83
	Servo motor power of Z-axis	kW	3	3	3	3
	Servo motor torque of Z-axis	N·m	Stall torque 27/Max. torque 68	Stall torque 36/Max. torque 90	Stall torque 36/Max. torque 90	Stall torque 38/Max. torque 130
Rapid traverse	Rapid traverse speed of X-axis	m/min	16	15	15	12
	Rapid traverse speed of Z-axis	m/min	16	15	15	12
Accuracy	Repeat positioning accuracy of X-axis/Z-axis	mm	0.004	0.004	0.004	0.004
	Positioning accuracy of X-axis/Z-axis	mm	0.008	0.008	0.008	0.008
Hydraulic station	Hydraulic station volume	L	80	80	80	80
	Motor power	kW	2.2	3	3.75	3.75
	Flow rate	L/min	30	30	40	40
Others	CNC system	-	FANUC 0i-TF	FANUC 0i-TF	FANUC 0i-TF	FANUC 0i-TF
	Length*Width*Height	mm	1680*3320*2700	1850*3500*2700	1900*3620*2900	2500*3760*3300
	Net weight	kg	6000	8000	8600	11000

Vertical CNC Piston lathe

» Genuine CNC piston lathe for camless oval turning.

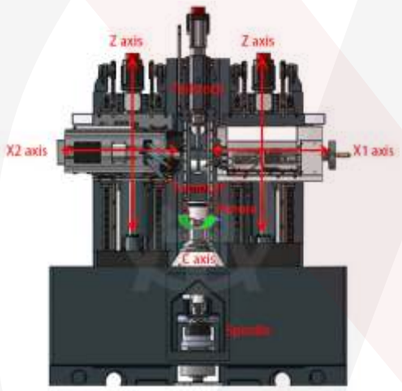
» Piston diameter range 50-200 mm, piston length up to 200 mm.

» 6 mm super big ovality amount.

» Vertical structure with symmetrical spindle structure, thermal deformation has little effect on the consistency of machining accuracy, effectively eliminating the dimensional error caused by the temperature rise of the spindle.

» The processes of finish grooving, finish top surface turning, finish skirt oval turning can be completed simultaneously, avoiding secondary clamping of pistons, effectively improving pistons processing accuracy, reducing logistics time for pistons transition, and improving processing efficiency.

» X1, Z1, X2, Z2, W2 and C, total of 6 coordinate axes.



Technical paramenter

Item		Unit	VPL15	VPL20
Capacities	Max. piston diameter	mm	φ150	φ200
	Max. piston length	mm	160	200
	Max. pison ovality amount	mm	6	6
Spindle	Max. spindle speed	r/min	4000	3000
	Spindle nose type	-	A2-6	A2-6
	Main motor power	kW	5.5	5.5
Fixture	Fixture type	-	hydraulic type	pneumatic type
Toolpost	Toolpost type	-	Gang tool type	Gang tool type
	Tool quantity	pcs	5	5
X1 axis	X1-axis stroke	mm	150	115
	X1-axis servo motor power	kW	1.4	0.9
	Rapid traverse speed of X1-axis	m/min	12	12
X2 axis/ Ovality generator	X2-axis stroke	mm	16	15
	X2-axis linear motor power	kW	1.44	1.5
	Rapid traverse speed of X2-axis	m/min	12	12
Z axis	Z-axis stroke	mm	280	350
	Z-axis servo motor power	kW	3	1.5
	Rapid traverse speed of Z-axis	m/min	12	12
Tailstock	Tailstock stroke	mm	260	350
Accuracy	Repeat positioning accuracy of X2-axis	mm	±0.0005	± 0.001
	Positioning accuracy of X2-axis	mm	± 0.001	± 0.005
	Positioning accuracy of C-axis	°	0.001	0.003
Others	CNC system	-	Fanuc 31i	COPLEY+piston curved surface control software
	Length*Width*Height	mm	1300*2400*2500	2800*1600*2500
	Net weight	kg	3500	5000

Slant bed CNC Piston lathe

» Genuine CNC piston lathe for camless oval turning.

» Economical horizontal slant bed type.

» Piston diameter range 50-200 mm.

» 2.2 mm ovality amount.

» Double screen.

» The precision of All our lathes is measured and compensated by RENISHAW laser interferometer, to make sure both positioning precision and repositioning precision are excellent.

» Fanuc 0i-TF CNC system + piston curved surface control software.

Technical paramenter

Item		Unit	HPL12	HPL20
Capacities	Max. piston diameter	mm	φ50-φ120	φ60-φ200
	Max. pison ovality amount	mm	2.2	2.2
	Max. amount of piston cuved line	mm	?2.4	?2.4
Spindle	Spindle type	-	Mechanical spindle unit	Mechanical spindle unit
	Spindle speed	r/min	100-3000	100-3000
	Max. toolpost tracking spindle speed	r/min	400-1500	400-1500
	Spindle taper	-	MT5	MT6
	Spindle runout	mm	0.003	0.003
Linear motor	Linear motor type	-	Voice coil motor	Voice coil motor
	Linear motor stroke	mm	2.2	2.2
Feed	Max. transverse stroke	mm	210	230
	Max.longitudinal stroke	mm	310	600
	Servo motor power of X-axis	N·m	8	10
	Servo motor power of Z-axis	N·m	8	10
Tailstock	Tailstock quill diameter	mm	52	70
	Tailstock quill taper	mm	MT4	MT5
	Tailstock quill max. stroke	mm	110	100
Accuracy	Curved line and ovality machining accuracy (for one time ovality)	mm	±0.003	±0.003
Others	CNC system	-	Fanuc 0i-TF	Fanuc 0i-TF
	Main Motor Power	kW	5.5	7.5
	Coolant tank volume	L	70	80
	Length*Width*Height	mm	2450*1750*1650	2670*2080*1835
	Net weight	kg	2800	4000

Fire sprinkler production line

Nowadays, almost all buildings are equipped with fire sprinkler system. There are huge demand of fire sprinklers in the world very year. Fire sprinkler production line is developed under such circumstances by Anyang Xinheng Machine Tool Co., Ltd, and this production line is widely applied in fire sprinkler filed.

The whole processes, including brass rod cutting, heating, hot forging, trimming, shot blasting, machining, deflector assembling, glass bulb seat machining, O ring assembling, final assembling and pressure testing, are fully automatic with very few labor cost.

Product range

All ordinary fire sprinklers, such us pendent, uprights, sidewalls, and concealed sprinklers, can be produced by our production line.

The productivity can be customized according customer’ s actual requirement.

Key equipment introduction

Automatic CNC lathe for fire sprinkler

Glass Bullb Seat Lathe

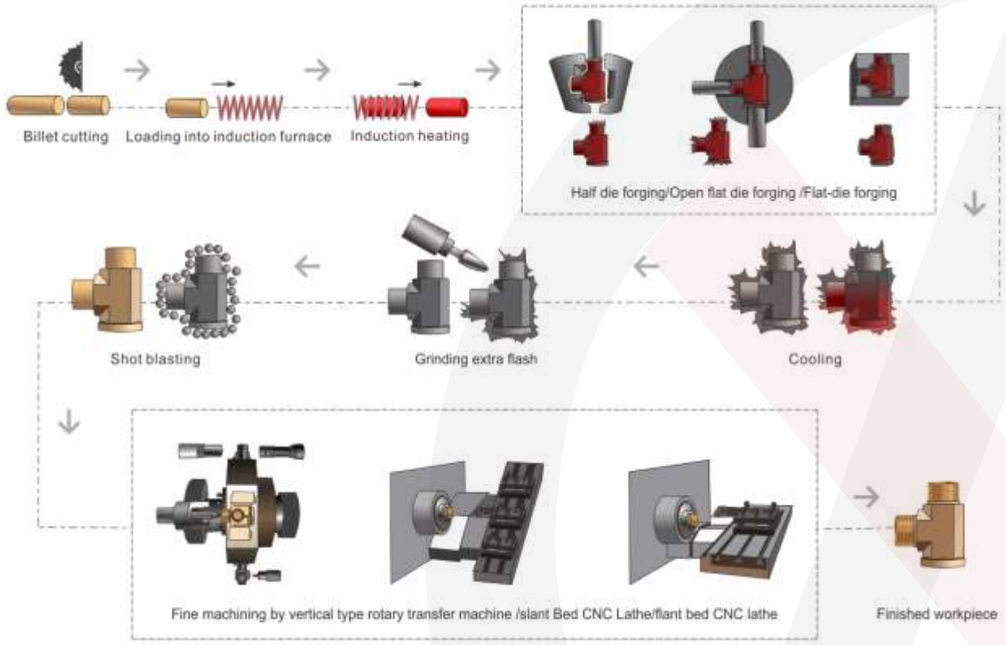
Glass Bulb Assembling Maching

Pressure Tester for Fires Sprinkler

Please scan the code to check the production line video

Brass fitting production line

Brass fitting production line mainly consists of brass rod cutting machine, automatic heating furnace, hot forging press, trimming press (if necessary), shot blasting machine, rotary transfer machine or slant bed CNC lathe.



Product range

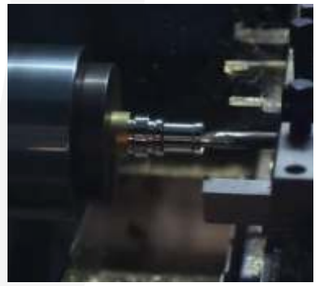
The brass fitting production line can be used to produce brass various brass fittings, such nut, tap, valve body, estinguisher body, water meter shell, gas valve, rotor, plumbing connector, etc.

Key equipment introduction

Automatic heating furnace

Hot forging press

Flat bed CNC valve lathe

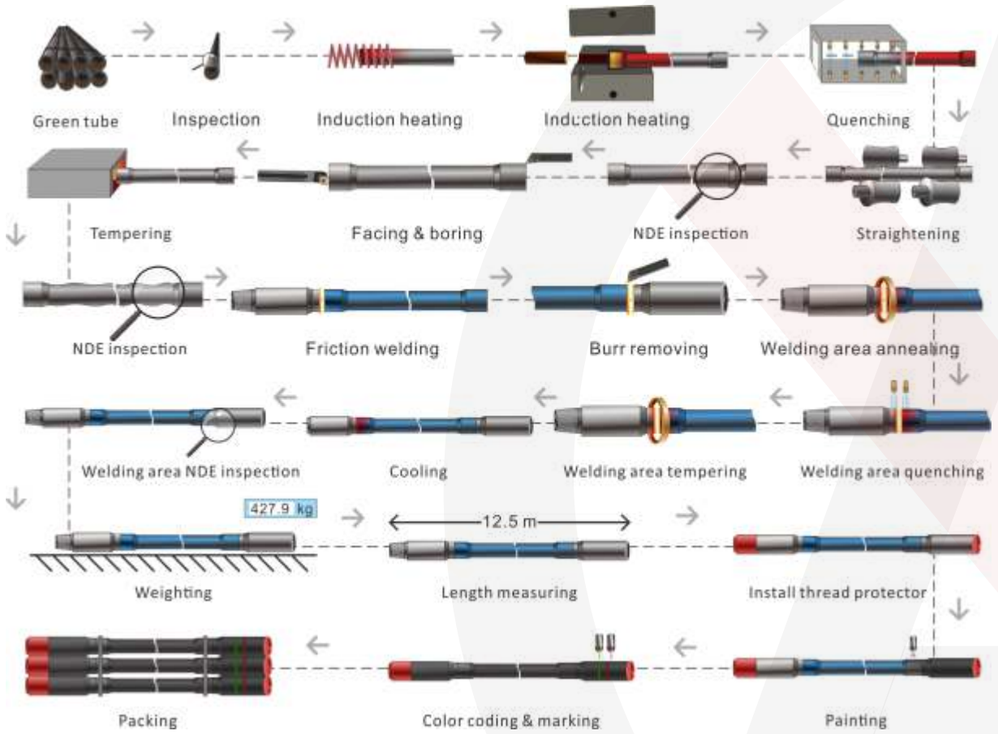


Rotary transfer machine

Please scan the code to check the production line video

Drill pipe production Line

The production line for the processing and production of oil drilling pipe, drill collar, oil casting, and sucker rod, mainly divided into three steps, using the upsetting machine, heat treatment machines, pipe threading lathes and some other machines. The production line is fully automatic. It can produce high quality and strong rigidity drill pipe in short time.



Product range

Drill pipe diameter range: from 60.3 mm to 168.3 mm (from 2 3/8" to 6 5/8")

Steel grade: E75, X95, G105 and S135

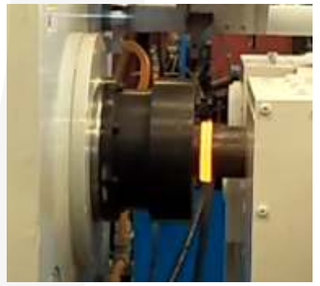
Upsetting forms: EU, IU and IEU.

Key equipment introduction

Hydraulic upsetting press

Oil country lathe

Hydraulic friction welding machine

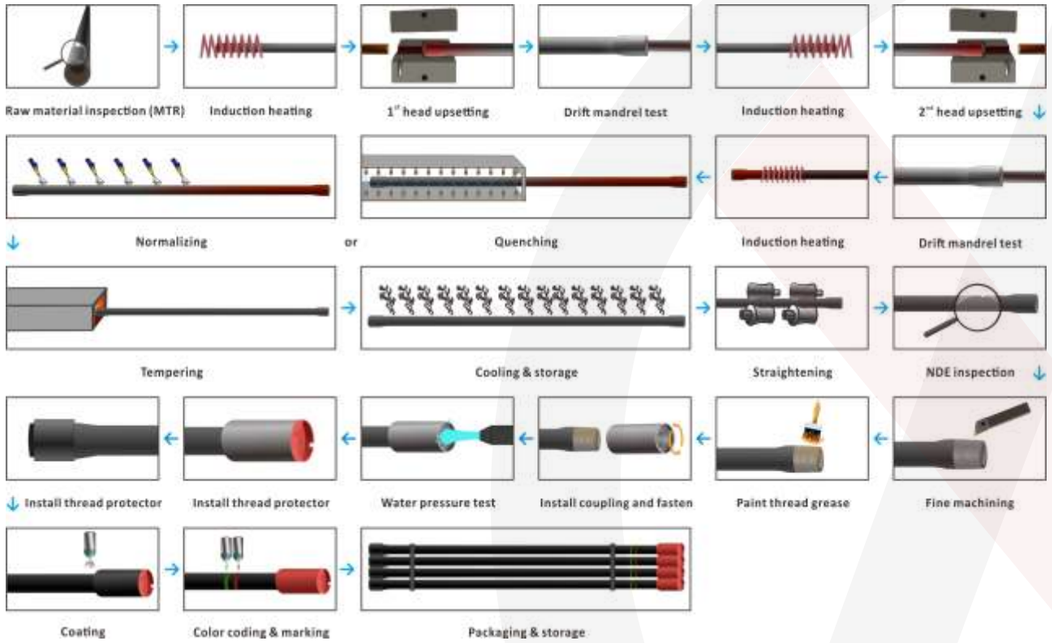


Welding area heat treatment line

Please scan the code to check the production line video

API 5CT Tubing Production Line

API 5CT external-upset tubing production line is composed by induction heating furnace, automatic feeding and discharging device, hydraulic upsetting press, drift mandrel testing machine, tubing heat treatment line, hydraulic straightening machine, oil country lathe, hydrostatic testing machine, pipe coupling fitting machine, coating machine, color coding machine, etc.



Product range

Labels		Outside diameter D mm	Nominal linear mass threaded and coupled kg/m	Upset			
				Outside diameter D_4 mm +1.59 0	Length from end of pipe to start of taper L_{eu} mm +0 -25.4	Length from end of pipe to end of taper L_a mm	Length from end of pipe to start of pipe body L_b mm max.
1	2						
2	2	3	4	5	6	7	8
1.05	1.2	26.67	1.79	33.4	60.32	—	—
1.05	1.54	26.67	2.29	33.4	60.32	—	—
1.315	1.8	33.4	2.68	37.31	63.5	—	—
1.315	2.24	33.4	3.33	37.31	63.5	—	—
1.66	2.4	42.16	3.57	46.02	66.68	—	—
1.66	3.07	42.16	4.57	46.02	66.68	—	—
1.9	2.9	48.26	4.32	53.19	68.26	—	—
1.9	3.73	48 26	5.55	53.19	68.26	—	—
2-3/8	4.7	60.32	6.99	65.89	101.6	152.4	254
2-3/8	5.95	60.32	8.85	65.89	101.6	152.4	254
2-3/8	7.45	60.32	11.09	65.89	101.6	152.4	254
2-7/8	6.5	73.02	9.67	78.59	107.95	158.75	260.35
2-7/8	7.9	73.02	11.76	78.59	107.95	158.75	260.35
2-7/8	8.7	73.02	12.95	78.59	107.95	158.75	260.35
2-7/8	9.45	73.02	14.06	78.59	107.95	158.75	260.35
3-1/2	9.3	88.9	13.84	95.25	114.3	165.1	266.7
3-1/2	12.95	88.9	19.27	95.25	114.3	165.1	266.7
4	11	101.6	16.37	107.95	114.3	165.1	266.7
4-1/2	12.75	114.3	18.97	120.65	120.65	171.45	273.05
Steel:	H40, J55, L80, N80, C90, T95, P110 or other steel brands.						

Key equipment introduction

Hydraulic upsetting press

Drift mandrel testing machine

Oil country lathe

Hydrostatic testing machine

Please scan the code to check the production line video

Piston Production Line

Automated material sorting and material loading/unloading on the entire production line result in dramatic reduction of labor requirement.

With online inspection and instant automatic compensation of machining dimensions, higher machining yield rate can be achieved.

Exclusive twin machining position design allows simultaneous material loading/unloading on one position during machine on the other side. material loading/unloding time can be saved
quick tool and fixture change system design reduces time of shifting one model to a completely different one

Product range






Key equipment introduction

Casting and Heat treatment


Melt


Degassing


Deslagging


Inspection


Casting


Casting riser cutting


Salt core rinse


Heat treatment

Machining process


Rough turning O.D + Finish turning register + Finish turning oil grooving + Processed hole


Rough pin bore +Circlip groove + Finish turning chamfer+ Finish pin bore


Pin hole polishing


oil hole drilling


Register turning and center hole drilling


Oval turning


Drilling drain hole on the pin boss


Riser removing &

Surface treatment and inspection


Surface


Coating


Inspection + mark


Package

Lathe optional

System


Siemens


Fanuc


GSK


KND

Headstock

NSK bearing

SKF bearing

Chuck


3-jaw chuck


4-jaw chuck


Independent chuck


Self centering chuck


Composite chuck


Hydraulic chuck


Pneumatic chuck


Protective cover of chuck

Guideway

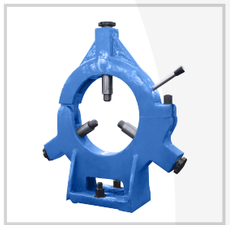

Linear guideway


Double bed saddle


Saddle

Turret


Follow rest


Steady rest


Vertical 4-position turret


Vertical 6-position turret


Horizontal 6-position turret


Horizontal 8-position turret


Horizontal 12-position turret


Protective cover of turret


Taper ruler


Grinding head


Milling head


boring tool holder

Lathe optional

Tailstock


Electric tailstock


Pneumatic tailstock


Hydraulic tailstock


Rotatory tailstock


Chuck tailstock


Center


Manual pulse generator

Others


Chip conveyor


Electric box air conditioner


Automatic feeding frame


Digital display


Fully-protective cover


Semi-protective cover


Door lock switch


Foot switch

Mo Tu We Th Fr Sa Su

Memo No.

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