

WEIDA



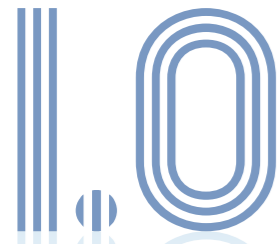
SHANDONG WEIDA PRECISION
INTELLIGENT MACHINERY CO., LTD.

山东威达精工

SHANDONG WEIDA PRECISION INTELLIGENT MACHINERY CO., LTD.



CNC LATHE



品质&精度

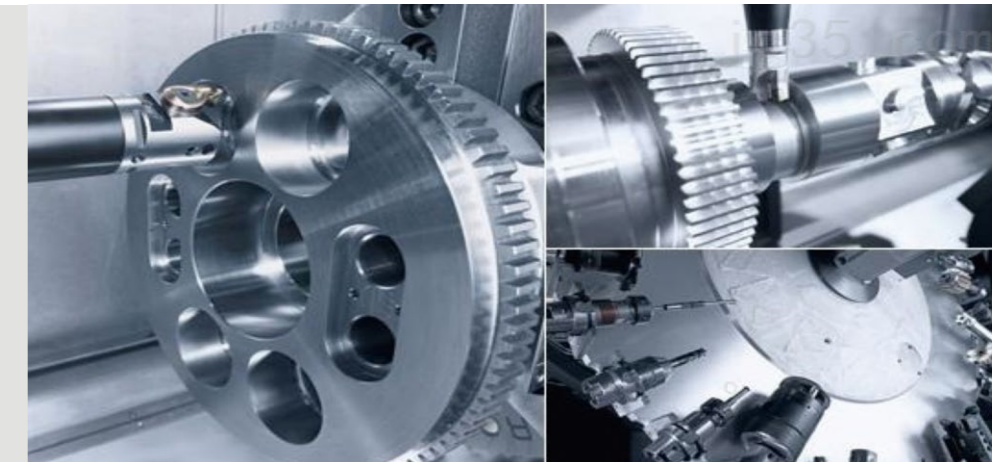
QUALITY ACCURACY

THE RELENTLESS PURSUIT OF QUALITY AND PRECISION IS THE CHARACTERISTICS OF WEIDA AND ITS STAFF



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SLANT BED CNC LATHE

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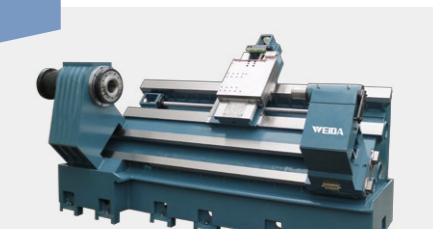
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SLANT BED CNC LATHE

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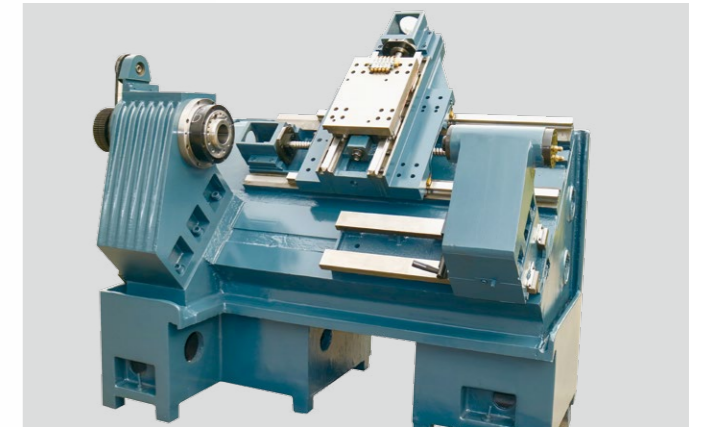
TCK-40

SLANT BED CNC LATHE

斜床身数控车床

斜床身车床特点 FEATURES

- Germany bearing spindle unit
- Max.spindle speed 4500 rpm
- Optional multi station power turret
- C3-class lead screw
- High precision linear guideway
- Imported precision bearings



Technical parameter

Specifications	unit	TCK40	TCM40
Max.swing diameter over bed	mm	φ 450	φ 450
Max.processing diameter	mm	φ 400(disk parts L ≤ 80)	φ 350 (based on turret changes)
Max.swing diameter over carriage	mm	φ 220	φ 220
Max. processing length	mm	500	400
Spindle nose type (Inner taper)	type	A2-6 (MT6)	A2-6 (MT6)
Spindle speed	r/min	4500	4500
Spindle motor power	kw	7.5kw/11kw	7.5kw/11kw
Spindle bore	mm	φ 66	φ 66
Bar diameter	mm	φ 52	φ 52
X/Z axis lead screw size		3210-C3/3210-C3	3210-C3/3210-C3
X/Z axis linear guideway size		35/35 ball type	35/35 ball type
X axis travel	mm	250	250
X axis motor torque	N.M	≥ 10	≥ 10
Z axis travel	mm	530	530
X axis motor torque	N.M	≥ 10	≥ 10
X/Z axis connection mode		drive type	drive type
R axis (tailstock feeding type)		saddle movement	Saddle movement
Chuck size (hydraulic)		8" /10" (optional)	8" /10" (optional)
Turret type		hydraulic / servo turret	power turret 12T-BMT40
Tool size or tool base installation type		25*25 (based on turret changes)	BMT40
Center height of turret	mm	80	70
Tailstock sleeve diameter	mm	φ 72	φ 72
Tailstock sleeve traverse	mm	100	100
Max.travel of tailstock	mm	400	400
Tailstock sleeve taper of bore		MT 4#	MT 4#
Bed type and inclination		Integral slant 45° castings linear guideway	Integral slant 45° castings linear guideway

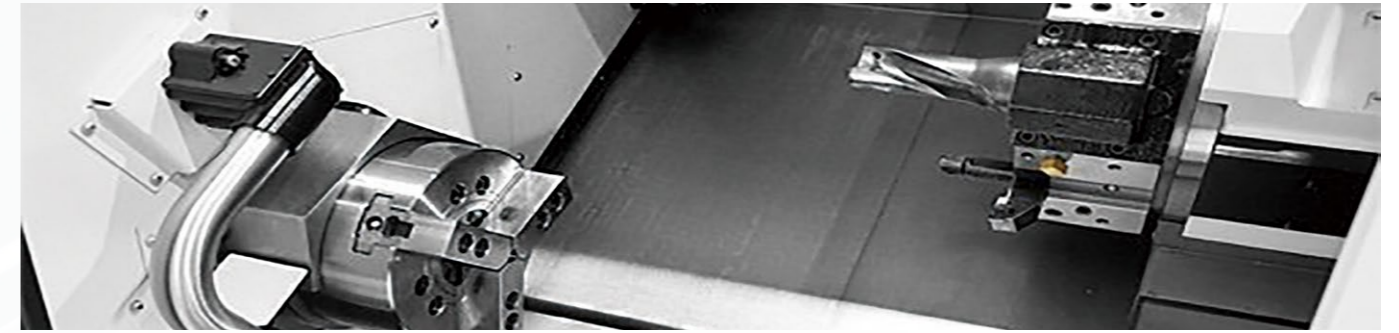
TCK-50

SLANT BED CNC LATHE

斜床身数控车床

斜床身车床特点 FEATURES

- Roller linear guideway
- C3-class ball screw
- Imported precision bearings
- Servo type hydraulic turret
- Optional power turret as Y axis
- Optional tool setting probe



Technical parameter

Specifications	unit	TCK50-58	TCK50-75	TCK50-100	
Max.swing diameter over bed	mm	φ 500	φ 580	φ 570(based on turret changes)	
Max.processing diameter	mm	φ 480 (based on turret changes)	φ 550 (based on turret changes)	φ 500(based on turret changes)	
Max.swing diameter over carriage	mm	φ 320	φ 280	φ 280(based on turret changes)	
Max. processing length	mm	580	750(based on turret changes)	1000(based on turret changes)	
Spindle nose type (Inner taper)	type	A2-8	A2-8 (MT6)	A2-6	A2-8
Spindle speed	r/min	2600	3500	4200	3000
Spindle motor power	kw	11kW/15kw	11kw/15kw	11kw/15kw	
Spindle bore	mm	φ 87	φ 87	φ 66	φ 86
Bar diameter	mm	φ 72	φ 72	φ 52	φ 72
X/Z axis lead screw size		3206-C3/4010-C3	3210-C3/4010-C3	3210-C3/4010-C3	
X/Z axis linear guideway size		45/45 ball type	35/35 roller type	45/45 ball type	
X axis travel	mm	250	320	270	
X axis motor torque	N.M	≥ 21	≥ 15	≥ 11	
Z axis travel	mm	620	850	1060	
X axis motor torque	N.M	≥ 21	≥ 22	≥ 11	
X/Z axis connection mode		drive type	drive type	drive type	
R axis (tailstock feeding type)		saddle movement	saddle movement	saddle movement	
Chuck size (hydraulic)		10"	10"	8"	10"
Turret type		hydraulic / servo turret	hydraulic / servo turret, power turret /Y axis power turret (optional)	hydraulic / servo turret, power turret /Y axis power turret (optional)	
Tool size or tool base installation type		25*25 (based on turret changes)	hydraulic / servo turret: 25*25 (based on turret changes) power turret /Y axis: BMT55	hydraulic / servo turret: 25*25 (based on turret changes) power turret /Y axis: BMT55	
Center height of turret	mm	80	hydraulic / servo turret: 80 power turret: 100 Y axis: 160-170	hydraulic / servo / power turret: 100 Y axis: 160-170	
Y axis travel	mm		± 50	± 50	
Tailstock sleeve diameter	mm	φ 100	φ 90	φ 80	
Tailstock sleeve traverse	mm	120	120	80	
Max.travel of tailstock	mm	670	750	960	
Tailstock sleeve taper of bore		MT 5#	MT 5#	MT 5#	
Bed type and inclination		Integral slant 45° castings linear guideway	Integral slant 45° castings linear guideway	Integral slant 30° castings linear guideway	

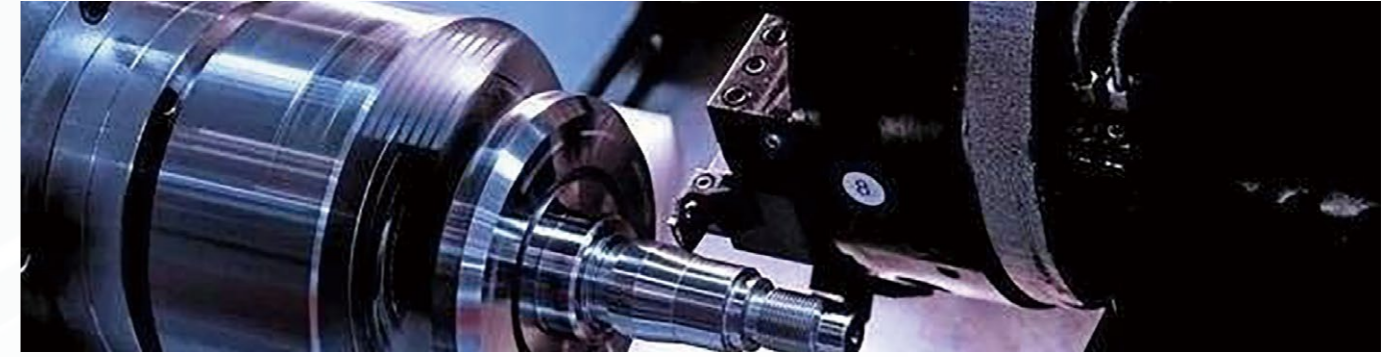
TCK-63

SLANT BED CNC LATHE

斜床身数控车床

斜床身车床特点 FEATURES

- Roller linear guideway
- C3-class ball screw
- Imported precision bearings
- Servo type hydraulic turret
- Optional power turret as Y axis
- Optional tool setting probe



Technical parameter

Specifications	unit	TCK63-100		TCK63-150/200/300	
Max.swing diameter over bed	mm	φ 650		φ 650 (based on turret changes)	
Max.processing diameter	mm	φ 630(disk parts)		φ 630 (based on turret changes)	
Max.swing diameter over carriage	mm	φ 400		φ 360 (based on turret changes)	
Max. processing length	mm	1000		1500/2000/3000 (based on turret changes)	
Spindle nose type (Inner taper)	type	A2-8		A2-8 (assembling type)	A2-11 (assembling type)
Spindle speed	r/min	2600		2600	2000
Spindle motor power	kw	11kw/15kw		15kw/18.5kw	
Spindle bore	mm	φ 87		φ 87	φ 105
Bar diameter	mm	φ 72		φ 72	φ 90
X/Z axis lead screw size		4010-C3/5010-C3		4010-C3/5512-C3(TCK63-300 is 6316-C3)	
X/Z axis linear guideway size		55/55 ball type		55/55 ball screw (TCK63-300 is 55/55 roller type)	
X axis travel	mm	350		350	
X axis motor torque	N.M	≥ 21		≥ 21	
Z axis travel	mm	1120		1620/2120/3120	
X axis motor torque	N.M	≥ 21		≥ 21	
X/Z axis connection mode		drive type		drive type	
R axis (tailstock feeding type)		saddle movement		saddle movement	
Chuck size (hydraulic)		10"		10" /12" (optional)	
Turret type		hydraulic / servo turret		hydraulic / servo turret、 power turret /Y axis power turret (optional)	
Tool size or tool base installation type		25*25 (based on turret changes)		hydraulic / servo turret: 25*25 (based on turret changes) power turret :BMT55 Y axis turret: BMT65	
Center height of turret	mm	100		hydraulic / servo /power turret : 100 Y axis: 215	
Y axis travel	mm			± 70	
Tailstock sleeve diameter	mm	φ 100		φ 140 (swivel tailstock)	
Tailstock sleeve traverse	mm	120		140	
Max.travel of tailstock	mm	1250		1560/2130/3130	
Tailstock sleeve taper of bore		MT 5#		MT 5#	
Bed type and inclination		Integral slant 45° castings linear guideway		Integral slant 30° castings linear guideway	

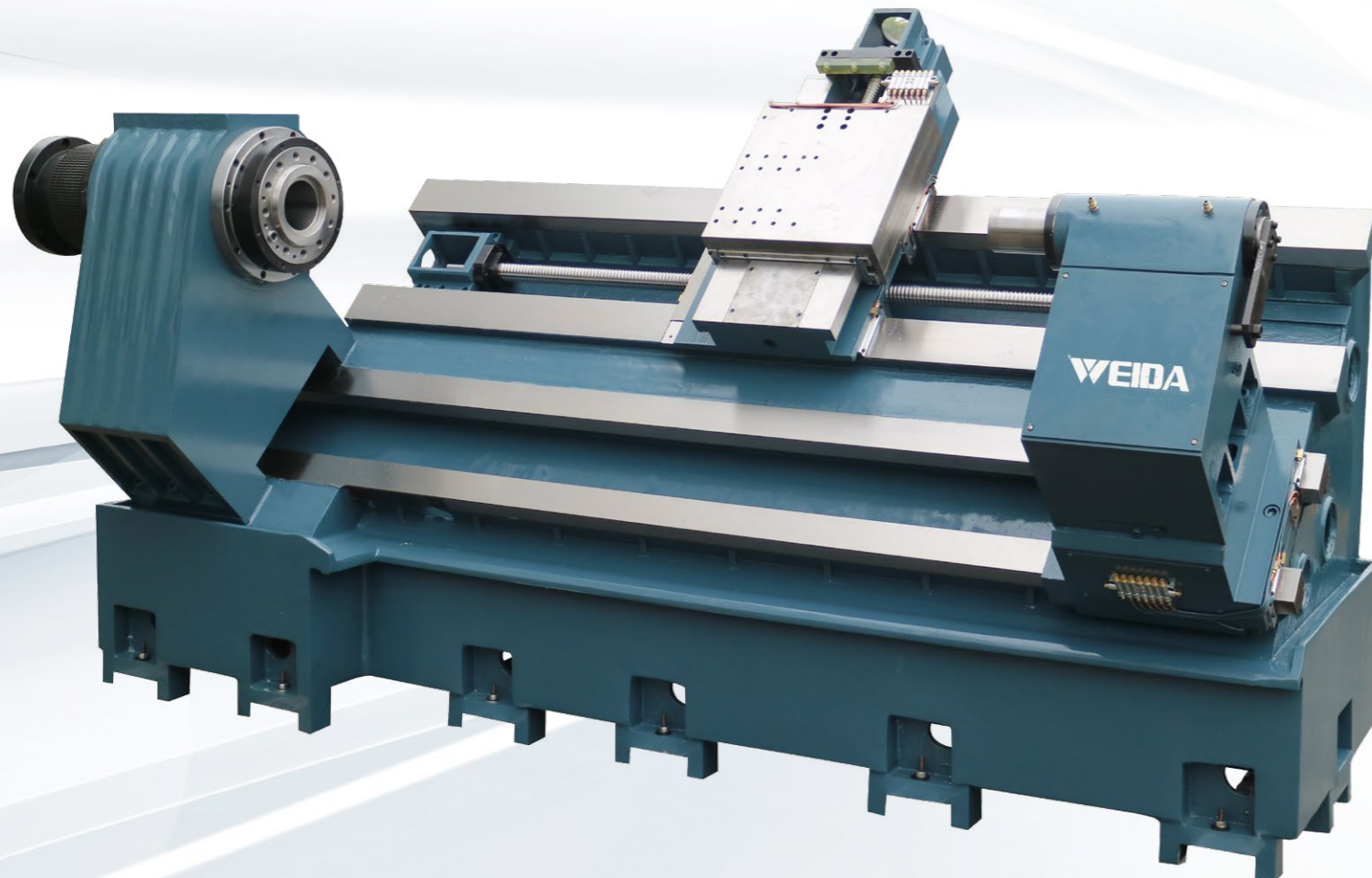
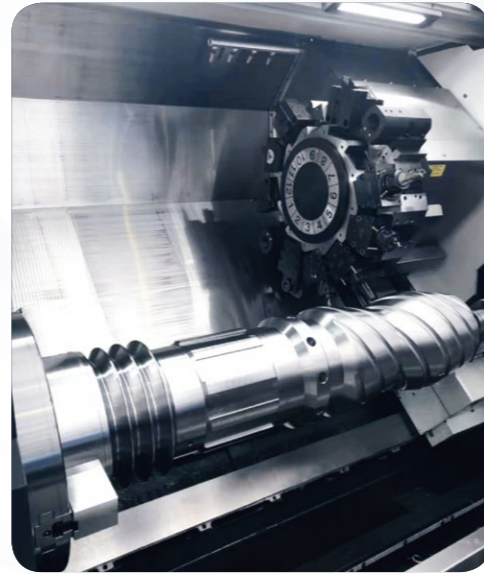
TCK-80

SLANT BED CNC LATHE

斜床身数控车床

斜床身车床特点 FEATURES

- Box way of machine bed
- C3-class ball screw
- Germany precision lead screw bearings
- Servo type hydraulic turret
- Optional power turret as Y axis
- Optional tool setting probe



Technical parameter

Specification	unit	TCK80-80	TCK80-150	TCK80-200	
Max.swing diameter over bed	mm	φ 800	φ 800	φ 800	
Max.processing diameter	mm	φ 700(disk parts)/ φ 600 (shaft parts)	φ 650(disk parts)/ φ 550 (parts)	φ 600(disk parts)/ φ 500 (parts)	
Max.swing diameter over carriage	mm	φ 360	φ 360	φ 360	
Max. processing length	mm	800	1500	2000	
Spindle nose type (Inner taper)	type	A2-11 (1:20)	A2-11 (1:20)	A2-11 (1:20)	A2-15 (1:20)
Spindle speed	r/min	2000	2000	2000	1500
Spindle motor power	kw	22kw	22kw	22kw	30kw
Spindle bore	mm	φ 105/ φ 134 (optional)	φ 134	φ 105	φ 134
X/Z axis lead screw size		4010-C3/4010-C3	4010-C3/5010-C3	4010-C3/5010-C3	
X/Z axis linear guideway size		box way	box way	box way	
X axis travel	mm	350	350	350	
X axis motor torque	N.M	≥ 18	≥ 18	≥ 18	
Z axis travel	mm	1080	1600	2100	
X axis motor torque	N.M	≥ 18	≥ 22	≥ 22	
X/Z axis connection mode		drive type	drive type	drive type	
R axis (tailstock feeding mode)		cylinder movement	saddle movement	saddle movement	
Chuck size (hydraulic)		15"	18"	15"	18"
Turret type		12 positions hydraulic or servo turret, box way, Y axis power turret(optional)			
Tool size or tool base installation mode		based on turret changes			
Center height of turret	mm	125/160			
Tailstock sleeve diameter	mm	φ 110	φ 170	φ 200	
Tailstock sleeve traverse	mm	120			
Max.travel of tailstock	mm	800	1400	1900	
Tailstock sleeve taper of bore		MT 6#	MT 6#	1:20	
Tailstock type		hydraulic tailstock unit	"spindle + fixed center" type tailstock	"sub-spindle + fixed center" type tailstock	
Bed type and inclination		Integral slant 45° castings box guideway	Integral slant 45° castings box guideway	Integral slant 45° castings box guideway	

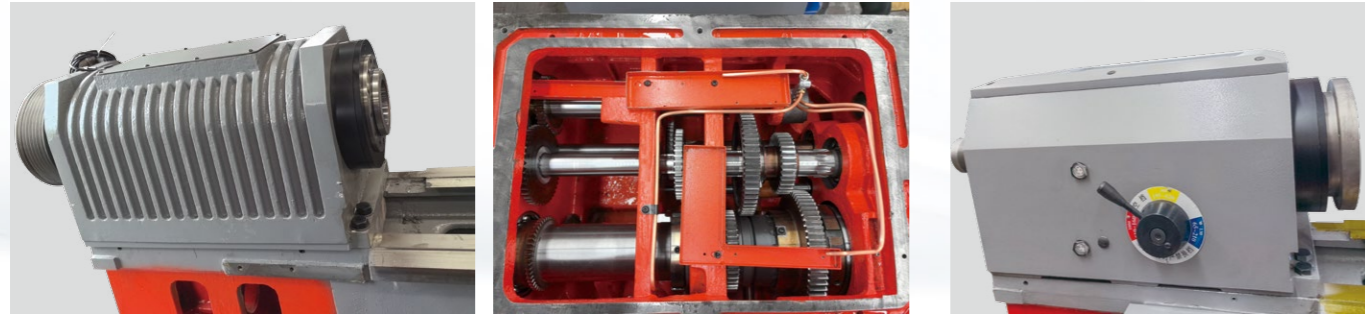
CK6140/6150/6163/6180

HORIZONTAL CNC LATHE MACHINE

数控卧式车床

数控卧式车床特点 FEATURES

- Integrated casting widened machine bed
- Spindle box widening and lengthening
- Three speed change on spindle
- Variable frequency stepless
- Automatic centralized lubrication



产品参数

Specifications	unit	CK6140A	CK6150A			CK6150B			CK6163B				CK6180B			
Max.swing over bed	mm	Φ420	Φ500			Φ500			Φ630				Φ800			
Max.swing over slider		Φ230	Φ290			Φ280			Φ350				Φ460			
Width of guide way	mm	350	400			400			550				600			
Distance between two centers	mm	750		1000	1500	2000	1000	1500	2000	1000	1500	2000	3000	1500	2000	3000
X axis travel	mm	220	330			330			400				450			
Z axis travel	mm	750	Vertical 4-station	970	1440	1900	970	1440	1900	900	1400	1900	2900	1500	2000	3000
			Horizontal 6-station	900	1370	1830	900	1370	1830	810	1310	1810	2810			
Rapid feed speed for X/Z axis	mm/min	6000/8000	6000/8000			6000/8000			4000/6000				4000/6000			
X-axis servo motor torque	N.m	7.5	7.5			7.5			15				10			
Z-axis servo motor torque		10	10			10			22				15	15	22	
Spindle speed range	rpm	20-2500	20-2000	low speed	65-210			40-125 (Manual gearshift)				30-140 (Manual gearshift)				
				Medium speed	195-620			110-350 (Manual gearshift)				100-435 (Manual gearshift)				
				high speed	510-1600			510-1600 (Manual gearshift)				220-850 (Manual gearshift)				
Spindle nose type	type	A2-6	A2-8			A2-8			C11				C11			
Spindle diameter	mm	Φ66(manual chuck)	Φ82(manual chuck)			Φ82(manual chuck)			Φ100(manual chuck)				Φ100(manual chuck)			
Spindle inner taper		Metric70(1:20)	Metric90(1:20)			Metric90(1:20)			Metric120(1:20)				Metric120(1:20)			
Manual 3-jaw chuck	mm	Φ200	Φ250			Φ250			Φ320				Φ400			
Spindle motor power	kw	5.5/7.5(option)	7.5/11(option)			7.5/11(option)			15 (Inverter) /11KW (servo option)				15 (Inverter)			
Electric tool post	type	Vertical 4-station	Vertical 4-station/ Horizontal 6-station(option)			Vertical 4-station/ Horizontal 6-station(option)			Vertical 4-station/ Horizontal 8-station(option)				Vertical 4-station/ Horizontal 8-station(option)			
Tool size	mm	25x25	25X25			25X25			32X32/25x25				32x32/25x25(option)			
Tailstock sleeve diameter	mm	Φ60	Φ75			Φ75			Φ100				Φ100			
Taper of bore	mm	MT4#	MT5#			MT5#			MT5#				MT6#			
Tailstock sleeve travel	mm	120	150(manual)/80 (hydraulic)			150			250				250			
Overall dimension(LXWXH)	mm	2700 × 1600 × 1700	2810/3310/3810 × 1680 × 2050			2810/3310/3810 × 1680 × 2050			3990/4490/4990/5990 × 1900 × 1860				3800/4400/5400 × 1920 × 1780			
Packing size	mm	2860 × 1750 × 2000	2960/3460/3960 × 1750 × 2250			2960/3460/3960 × 1750 × 2250			4200/4700/5200/6200 × 2150 × 2100				4100/4700/5700 × 2100 × 2000			
Machine weight	kg	2200		2850	3350	3850	2800	3300	3800	4950	5600	6350	7680	4800	5500	7600

CK6150AX

LINEAR WAY CNC LATHE

线规车床

线规车床特点 FEATURES

- Integrated bed with high rigidity design
- X/Z ultra wide roller linear guideway
- Optional vertical, horizontal, and straight platoon type tool holders
- Optional back mounted chain plate chip conveyor
- Automatic centralized lubrication



With Chinese CNC controller, spindle speed 2000 rpm, Z axis feed speed 240mm/min, Cut to a depth of 0.05mm on one side. Test piece material is 40Cr, hardness is HRC48, diameter is $\phi 25 \sim \phi 30$, machining surface roughness $Ra=0.410 \mu m$.



Technical parameter

Specifications	unit	CK6150AX(900)	
Max.swing over bed	mm	$\phi 500$	
Max.swing over slide	mm	$\phi 290$	
Max turning length	mm	700 (Vertical four-stations)	700 (Horizontal six-stations)
Distance between two centers	mm	900 (Dead center)	
Travel of X/Z axis	mm	740/295 (Vertical four-stations)	740/295 (Horizontal six-stations)
Rapid feed speed of X/Z	m/min	16/16	
Number/Width/Distance of T-slot	mm	3-14-93	
Spindle speed range	rpm	20-2000	
Spindle motor power	kW	7.5/11 (rated 1500rpm)	
Spindle drive type	type	1:3Toothed belts	
Spindle rated/max.torque	Nm	143/210	
Spindle nose type	type	A2-8	
Spindle diameter	mm	$\phi 82$	
Spindle inner taper		1:20 (90#)	
manual 3-jaw chuck	mm	$\phi 250$	
Electric tool post	type	Vertical four-stations	Horizontal six-stations
Tool size	mm	25X25	
Tailstock sleeve diameter	mm	$\phi 70$	
Tailstock taper of bore	mm	MT5#	
Tailstock sleeve travel	mm	205 (manual)	
Machine weight	Kg	2690	