

## Flat Bed CNC Lathe Gear Box Spindle Series

Specification		Unit	CKE6136	CKE6140	CKD6150	CKE6150	CKE6166	CKE6163	CKE6180
Max. Swing diameter over bed		mm	φ360	φ400	φ500	φ500	φ660	φ630	φ800
Max. Swing diameter over cross slide		mm	φ180	φ200	φ280	φ280	φ430	φ320	φ490
Max. Workpiece length		mm	750/1000	750/1000	750/1000/1500/2000			1000/1500/2000/3000/4000/5000	
Max. Cutting length		mm	580/830	580/830	680/930/1430/1930			795/1245/1845/2745/3785/4745 (Vertical 4-position) 690/1140/2740/2640/3680/4640 (Horizontal 6-position)	
Max turning diameter	Vertical 4-position	mm	φ360	φ400	φ500	φ500	φ560	φ630	φ800
	Opt: Horizontal 6-position	mm	φ300	φ300	φ400	φ400	φ400	φ620	φ620
	Opt:Horizontal 8-position	mm	-	-	-	φ370	φ370	φ620	φ620
Spindle center height		mm	186	200	250	250	330	315	400
Bed guideway width		mm	300	300	400	400	400	550	550
Spindle motor power		kW	5.5	5.5	7.5/11	7.5/11	7.5/11	11	
Spindle bore		mm	φ52	φ52	φ82	φ82	φ82	φ100	
Chuck size		mm	φ205	φ205	φ250	φ250	φ315	φ315	φ400
Taper of spindle bore			MT 6	MT 6	Front end φ90 1:20			Front end φ120 1:20	
Type of spindle nose			A <sub>2</sub> -6	A <sub>2</sub> -6	C8	D8		C11	
Spindle speed ranges		r/min	*20~2500 2range manual(auto)	*20~2500 2range manual(auto)	*7~1600 3 range manual	*7~2200 3 range manual (auto)		10~1000 (inverter-drive motor) 4 range manual (auto)	
Tailstock quill diameter		mm	φ63	φ63	φ75			φ100	
Tailstock quill travel		mm	140	140	150			240	
Tailstock quill taper			No. 4 MT	No. 4 MT	No. 5 MT			No. 6 MT	
Max. travel of X-axis		mm	230	240	280	280	305	320	400
Max. travel of Z-axis		mm	580/830	580/830	685/935/1435/1935			800/1250/1850/2750/3790/4750	
Rapid traverse of X/Z axis		m/min	4/6	4/6	4/8(750,1000,1500) (4/6 2000)			000,1500,2000), 4/4(3000), 4/3.5(4000)	
Tool shank size (Vertical 4-position)		mm	20 X 20	20 X 20	25 X 25			32 X 25	
X/Z axis positioning accuracy		mm	0.018/0.021(750) 0.024(1000)	0.018/0.021(750) 0.024(1000)	0.018/0.021(750) 0.024(1000), 0.026(1500, 2000)			0.018/0.024(1000) 0.026(1500, 2000) 0.030(3000, 4000, 5000)	
X/Z axis repeatability accuracy		mm	0.006/0.008(750) 0.011(1000)	0.006/0.008(750) 0.011(1000)	0.006/0.008(750) 0.011(1000), 0.014(1500,2000)			.006/0.011(1000) 0.014(1500, 2000, 3000, 4000, 5000)	

Machine dimensions	mm	2300X1480X1520 (750)	2300X1480X1520 (750)	2580X1750X1620(750)		3455X2020X1805(1000)	
		2550X1480X1520 (1000)	2550X1480X1520 (1000)	2830X1750X1620(1000)		3905X2020X1805(1500)	
Machine weight	kg	1800(750)	1850(750)	2550 (750) 2600 (1000)	2700/2750/	4800/5100/5600/	5300/5600/6100/
		1900(1000)	1950(1000)	2700(1500) 2800 (2000)	2850/2950	5900/7100/8100	6400/7600/8600

\*Standard servo motor

#### Standard configurations

- Servo spindle motor (CKD6150, CKE6136/6140/6150 Series)
- Frequency spindle motor (CKE6163/6180/61100 Series)
- FANUC Oi-TF(5) system
- 3-Jaw manual chuck
- Vertical 4-position turret
- Manual tailstock

#### Optional

- Frequency spindle motor (CKD6150,CKE6136/6140/6150 Series)
- Servo spindle motor (CKE6163/6180/61100 Series) • GSK/Siemens system
- 4-Jaw manual chuck
- Hydraulic chuck
- Horizontal 6-position turret
- Horizontal 8-position turret
- Hydraulic tailstock
- Hydraulic station
- Heat exchanger
- Follow rest
- Steady rest
- Air conditioner