

# KINGSTON<sup>®</sup>

**CNC LATHE Model CP**

**CPX**

**CK Oil Country**

**CG Oil Country**



[www.kingstonmachine.com](http://www.kingstonmachine.com)  
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#### BED WAY

- Mono type bed way with Kingston's own unique casting iron formula "FC 38 grade." Well-balanced strong rib structure allows for heavy loading, vibration buffering and will prevent heat distortion.
- Available up to 10 meters in all CNC models.

#### HEADSTOCK AND MAIN SPINDLE

- Main spindles of CG, CK, CPX and CP models are 380mm, 320mm, 235mm and 180mm respectively. Each contains a rear chuck adaptor that is easily adaptable to various jobs.
- The main spindle is supported by two sets of extra heavy duty tapered roller precision bearings.
- Headstocks have 4 gear shifts controlled by hydraulics which produce greater torque.
- A rigid and thicker spindle wall makes it ideal for cutting heavy and extremely hard materials.
- Enforced oil lubrication keeps the headstock temperature constant to ensure the work piece is turned accurately even during extended operation.

#### CARRIAGE AND CROSS SLIDE

- The bed way has two V ways creating more surface contact and allowing for greater carriage stability and fine and heavy cutting capabilities.
- Carriage and Cross guide way are box way design with Turcite B.
- Auto lubrication unit provides set volume to the running component parts reducing heat and wear out.
- AC servo motor 4HP and 7HP drive the X and Z axis, respectively and use P 2 class ball screws.

#### TAILSTOCK

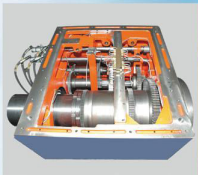
- There are three types of tailstocks to choose from:
  1. Quill with MTP6, quill operated manually. (Standard)
  2. Quill with MTP6, quill operated either electrically or manually
  3. Rotating spindle with Nose A2-S and Center MTP6, which can be operated electrically and manually, two in one.
- The movement of tailstock is carried out either by carriage engagement or manual operation with 4 sets of lifting bearings which are built in under the tailstock.
- The diameter of built-in rotating spindle is 180mm with 250mm stroke.

#### CHIP CONVEYOR

- Chip conveyor with coolant tank and pump is designed as one unit to allow for easy cleaning and maintenance.

### HEAD STOCK

Headstock and main spindle have optimal gear ratio producing maximum torque output.



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### CARRIAGE AND CROSS SLIDE

Carriage and cross slide are rigid box way design. The wider cross slide and larger contact surface of carriage and V ways produces stable and smooth movement.



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### TOOL TURRET

H4/H6 or V8 250 hydraulic turret is standard. VDI H4 turrets, Servo V8 turret and live tooling turrets are optional and can create a variety of workpieces.



### TAILSTOCK

Tailstock utilizes 180mm quill with MT#6 center creating a strong and attractive body.

180mm rotating spindle with Nose A2-5 and Center MT#6 is extremely versatile.



## CP / CPX Specification

MODEL	CP- 1000 CPX-1000	CP- 2000 CPX-2000	CP- 3000 CPX-3000	CP- 4000 CPX-4000	CP- 5000 CPX-5000	CP- 6000 CPX-6000	CP- 7000 CPX-7000
<b>Swing over bed</b>							
870mm (34in)				870mm (34in)			
1,020mm (40in)				1,020mm (40in)			
1,170mm (46in)				1,170mm (46in)			
1,270mm (50in)				1,270mm (50in)			
<b>Swing over cross slide</b>							
870mm (34in)				470mm (18.5in)			
1,020mm (40in)				620mm (24.4in)			
1,170mm (46in)				770mm (30.3in)			
1,270mm (50in)				870mm (34.25in)			
<b>Max cutting length</b>	1,050mm	2,100mm	3,200mm	4,300mm	5,400mm	6,500mm	7,600mm
	41in	82in	126in	169in	212in	256in	296in
<b>Max cutting dia</b>							
870mm (34in)				465mm (18.3in)			
1,020mm (40in)				615mm (24.2in)			
1,170mm (46in)				765mm (30.1in)			
1,270mm (50in)				865mm (34.05in)			
<b>Center height</b>							
870mm (34in)				1,185mm (46.65in)			
1,020mm (40in)				1,260mm (49.60in)			
1,170mm (46in)				1,335mm (52.55in)			
1,270mm (50in)				1,385mm (54.50in)			
Width of bed				710mm (28in)			
<b>Head stock</b>							
Spindle nose	ASA A2-15						
Hole through spindle	CP: 180mm (7.08in) / CPX: 235mm (9.25in)						
Number of speed change	auto 4 steps						
Range of spindle speed	CP: 7-750 r.p.m. / CPX: 6-600 r.p.m.						
Main drive motor	AC 22KW / AC 30HP [cont], CPX: AC 30KW / AC 40HP [cont]						
Rear end of spindle	Rear chuck adaptor equipped						
<b>Carriage</b>							
X-axis travel	530mm (20.86in)						
Z-axis travel	1,100mm	2,200mm	3,300mm	4,400mm	5,500mm	6,600mm	7,700mm
	43in	86in	129in	173in	216in	260in	303in
X-axis ball screw	Dia 30mm P=5						
Z-axis ball screw	Dia 63mm P=10			Dia 80mm P=10			
X-axis rapid traverse	8 M (314in) / min						
Z-axis rapid traverse	8 M (314in) / min						
X-axis servo motor	AC 4 KW						
Z-axis servo motor	AC 7 KW						
<b>Tailstock</b>							
Diameter of quill	180mm (7.08in)						
Quill stroke/Center Type/ movement type							
A. Quill	250mm (9.84in) / MT #6 / Manual operation(Standard), Electric and Manual operation (Option)						
B. Rotating spindle (Option)	250mm (9.84in) / Spindle Nose A2-5, MT #6 / Electric and Manual operation						
<b>Turret</b>							
Turret type	V8 or H4/H6 Hydraulic turret (Standard)						
<b>Motor type</b>							
Hydraulic system	1.50 KW						
Lubrication system	0.70 KW						
Coolant system	0.75 KW						
Chip conveyor	0.75 KW						
Floor space required (mm)	2,610 x 6,000	2,610 x 7,100	2,610 x 8,200	2,610 x 9,300	2,610 x 10,400	2,610 x 11,500	2,610 x 12,600
<b>Net weigh (kg)</b>							
870mm (34in)	8,100	9,500	11,500	13,200	15,000	16,800	18,600
1,020mm (40in)	8,450	9,850	11,850	13,550	15,350	17,150	18,950
1,170mm (46in)	9,000	10,400	12,400	14,100	15,900	17,700	19,500
1,270mm (50in)	9,500	10,900	12,900	14,600	16,500	18,300	20,900

Specifications subject to change without notice for improvements and modifications

\*CPX model is 300 kgs extra.

### Standard

1. Fanuc controller 0iTD / 10.4" LCD / Manual Guide
2. Rear chuck adaptor
3. V8 or H4/H6 with tooling
4. Working light
5. Tailstock with 180mm quill
6. Chip conveyor suitable of lathe lengths
7. Operation annual , parts list manual, system handbook and

8. Complete splash guard in rear side, two doors in front side

## CK Specification

MODEL	CK-2000	CK-3000	CK-4000	CK-5000	CK-6000	CK-7000
<b>Swing over bed</b>						
780mm (30in)				780mm (30in)		
870mm (34in)				870mm (34in)		
<b>Swing over cross</b>						
780mm (30in)				360mm (14.17in)		
870mm (34in)				470mm (18.50in)		
<b>Max cutting length</b>						
	2,100mm	3,200mm	4,300mm	5,400mm	6,500mm	7,600mm
	82in	126in	169in	212in	256in	299in
<b>Max cutting dia</b>						
780mm (30in)				355mm (13.97in)		
870mm (34in)				465mm (18.30in)		
<b>Height from floor to work center</b>						
780mm (30in)				1,130mm (44.48in)		
870mm (34in)				1,185mm (46.65in)		
<b>Width of bed</b>						
				710mm (28in)		
<b>Head stock</b>						
<b>Spindle nose</b>						
				ASA A2-20		
<b>Hole through spindle</b>						
				320mm(12.59in)		
<b>Number of speed changes</b>						
				auto 4 steps		
<b>Range of spindle speed</b>						
				10 – 400 r.p.m		
<b>Main drive motor</b>						
				AC 30KW / AC 40HP (cont)		
<b>Rear end of spindle</b>						
				Rear chuck adaptor equipped		
<b>Carrriage</b>						
530mm (20.86in)						
<b>X-axis travel</b>						
<b>Z-axis travel</b>						
	2,200mm	3,300mm	4,400mm	5,500mm	6,600mm	7,700mm
	86in	129in	173in	216in	260in	303in
<b>X-axis ball screw</b>						
				Dia 32mm P=5		
<b>Z-axis ball screw</b>						
	Dia 63mm P=10			Dia 80mm P=10		
<b>X-axis rapid traverse</b>						
				8 M (314in) / min		
<b>Z-axis rapid traverse</b>						
				8 M (314in) / min		
<b>X-axis servo motor</b>						
				AC 4 KW		
<b>Z-axis servo motor</b>						
				AC 7 KW		
<b>Tailstock</b>						
<b>Diameter of quill</b>						
				180mm (7.08in)		
<b>Quill stroke/Center Type/ movement type</b>						
A. Quill	250mm (9.84in) / MT #6 / Manual operation(Standard), Electric and Manual operation (Option)					
B. Rotating spindle (Option)	250mm (9.84in) / Spindle Nose A2-5, MT #6 / Electric and Manual operation					
<b>Turret</b>						
<b>Turret type</b>						
				V8 or HV8 Hydraulic turret (Standard)		
<b>Motor type</b>						
<b>Hydraulic system</b>						
				1.50 KW		
<b>Lubrication system</b>						
				0.70 KW		
<b>Coolant system</b>						
				0.75 KW		
<b>Chip conveyor</b>						
				0.75 KW		
<b>Floor space required (mm)</b>						
	2,610 x 7100	2,610 x 8200	2,610 x 9300	2,610 x 10400	2,610 x 11,500	2,610 x 12,600
<b>Net weight (kg)</b>						
780mm (30in)	11,900	13,400	14,900	16,400	17,900	19,400
870mm (34in)	12,400	13,900	15,400	17,000	18,500	20,000

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### Option accessories

1. Hydraulic chuck
2. 5 degree C axis
3. 1/1000 Index C axis
4. Servo V8 turret
5. VDI H4 turret
6. Live tooling turret
7. 3 jaw scroll chuck
8. 4 jaw independent chuck
9. CE safety requirements
10. Complete splash guard
11. Boring bar support 153 mm (6")with 100mm(4") sleeve
12. Rotary type spindle tailstock with nose A2-5 and center MT#6, which operated by electric and manual.
13. Two points roller bracket.
14. Transformer 60 KVA
15. Oil cooler for headstock

## CG Specification

MODEL	CG-2000	CG-3000	CG-4000	CG-5000	CG-6000	CG-7000
<b>Swing over bed</b>						
870mm (34in)			870mm (34in)			
1,020mm (40in)			1,020mm (40in)			
<b>Swing over cross slide</b>						
870mm (34in)			470mm (18.50in)			
1,020mm (40in)			620mm (24.40in)			
<b>Max cutting length</b>						
	2,100mm	3,200mm	4,300mm	5,400mm	6,500mm	7,600mm
	82in	126in	169in	212in	256in	299in
<b>Max cutting dia</b>						
870mm (34in)			465mm (18.30in)			
1,020mm (40in)			615mm (24.21in)			
<b>Height from floor to work center</b>						
870mm (34in)			1,185mm (46.65in)			
1,020mm (40in)			1,280mm (49.60in)			
<b>Width of bed</b>						
			710mm (28in)			
<b>Head stock</b>						
<b>Spindle nose</b>						
			ASA A2-20			
<b>Hole through spindle</b>						
			380mm (14.96in)			
<b>Number of speed change</b>						
			auto 4 steps			
<b>Range of spindle speed</b>						
			10 – 300 r.p.m			
<b>Main drive motor</b>						
			AC 30KW / AC 40HP (cont)			
<b>Rear end of spindle</b>						
			Rear chuck adaptor equipped			
<b>Carriage</b>						
<b>X-axis travel</b>						
			530mm (20.86in)			
<b>Z-axis travel</b>						
	2,200mm	3,300mm	4,400mm	5,500mm	6,600mm	7,700mm
	86in	129in	173in	216in	260in	303in
<b>X-axis ball screw</b>						
			Dia 32mm P=5			
<b>Z-axis ball screw</b>						
			Dia 63mm P=10		Dia 80mm P=10	
<b>X-axis rapid traverse</b>						
			8 M (314in) / min			
<b>Z-axis rapid traverse</b>						
			8 M (314in) / min			
<b>X-axis servo motor</b>						
			AC 4 KW			
<b>Z-axis servo motor</b>						
			AC 7 KW			
<b>Tailstock</b>						
<b>Diameter of quill</b>						
			180mm (7.08in)			
<b>Quill Stroke/Center Type/ movement type</b>						
A. Quill	250mm (9.84in) / MT #6 / Manual operation(Standard), Electric and Manual operation (Option)					
B. Rotating Spindle (Option)	250mm (9.84in) / Spindle Nose A2-5, MT #6 / Electric and Manual operation					
<b>Turret</b>						
<b>Turret type</b>						
			V8 or H4/R Hydraulic turret (Standard)			
<b>Motor type</b>						
<b>Hydraulic system</b>						
			1.50 KW			
<b>Lubrication system</b>						
			0.70 KW			
<b>Coolant system</b>						
			0.75 KW			
<b>Chip conveyor</b>						
			0.75 KW			
<b>Floor space required (mm)</b>						
	2,610 x 7,100	2,610 x 8,218	2,610 x 9,300	2,610 x 10,400	2,610 x 11,500	2,610 x 12,600
<b>Net weight (kg)</b>						
870mm (34in)	13,000	14,500	16,600	17,600	18,600	19,600
1,020mm (40in)	13,400	14,900	17,000	18,200	19,400	20,600

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**KINGSTON CNC  
KING KONG IRON WORKS, LTD.**

**YAMARIS MACHINERY PTE LTD**

No. 15 Pioneer Sector 3 Singapore 628348  
Tel: (65) 6862 9768 Fax: (65) 6862 8917  
Email: yamaris@singnet.com.sg  
Website: www.yamaris.com.sg