

# CK

## UNIVERSAL

Ultra Heavy Duty Power



**KINGSTON**

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Kingston's CK Universal model uses its big features to combine powerful heavy-duty cuts with high accuracy. The 4-speed headstock and robust spindle construction are built for high turning torque (9,000 N-m at low speeds), while the heavily ribbed one-piece casting and brawny 28-inch wide 2 V-way bed provide extreme rigidity when cutting large-diameter workpieces. The CK Universal's greater loading capacity and ability to handle the hardest materials – even titanium alloys – make it an ideal choice for the toughest jobs. Available in 4 bore sizes (7.09", 10.1", 12.5, and 14.8"), 4 swing diameters up to a massive 50", and lengths from 40" – 200."

### Machine Highlights

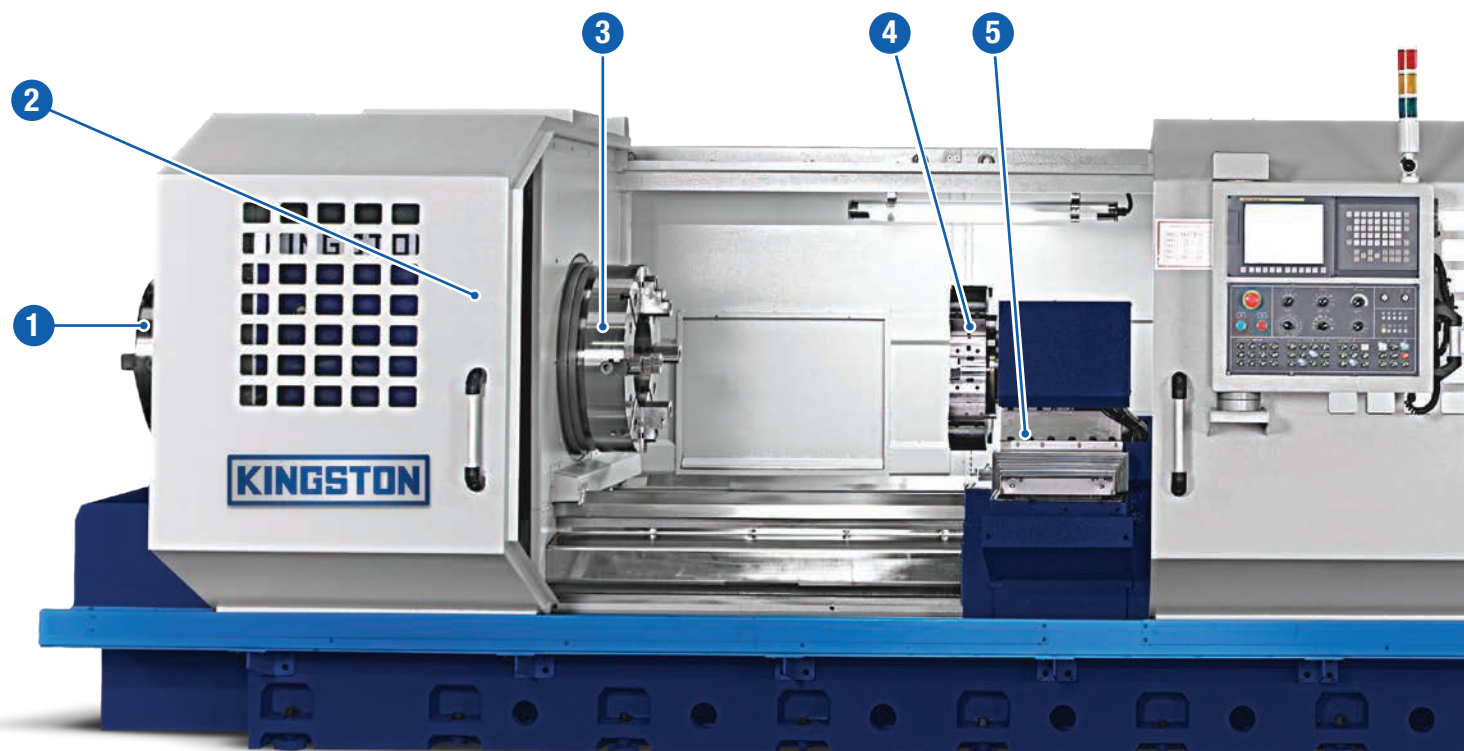
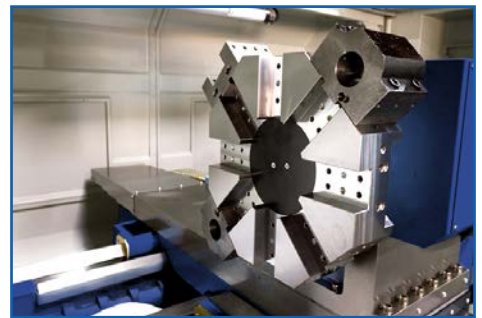
- 1 Rear Chuck Adapter



- 2 4-Speed Headstock for maximum torque

- 3 Spindle Bore: Choice of 7.09", 10.1", 12.5" and 14.8"

- 4 V8 Hydraulic Turret with 2" Boring Bar Holders



# Machine Highlights

- 5 **Uniquely Designed Box Way Cross Slide** for greater stability and heavy cutting

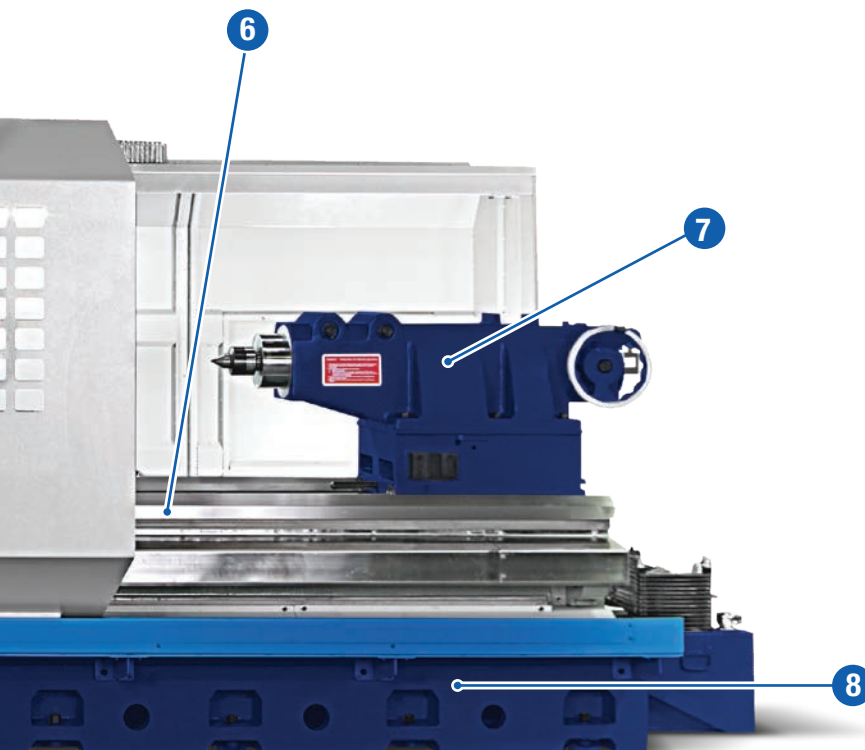


- 6 **28" 2 V-Way Bed**

- 7 **Powerful Tailstock** can engage with carriage for easier movement

- 8 **Heavily Ribbed One-Piece Casting** for increased rigidity

- 9 Front and rear chip conveyor (not shown)



## Standard Features

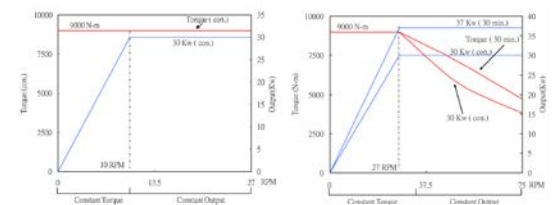
- Bore: 7.09", 10.1", 12.5", or 14.8"
- Swing: 34", 40", 46", or 50" (46" & 50" CK 7/10 Only)
- C.C.: 80" – 200"
- CK 7: 30 HP / 35 HP (30 min)
- CK 10 / CK 12 / CK 14: 40/50 HP (30 min)
- 28" Bed Width, One-Piece Casting
- Box Way Cross Slide on Carriage
- V8 Turret
- Headstock Cooling System
- Front & Rear Chip Conveyor
- Hydraulic and Manual Quill Movement
- Fanuc OiTF Controller with Manual Guide i & Thread Repair, 10.4" LCD Monitor

## Optional Accesories

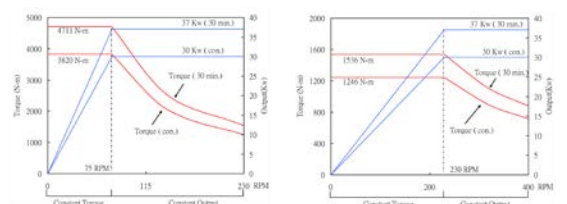
- Cs-Axis with One-Degree Indexing
- Live Tooling Turret
- H4 Hydraulic Turret or T-Slot on Tool Block
- Rear Turret
- 6" Boring Bar Support
- Variable Speed Threading

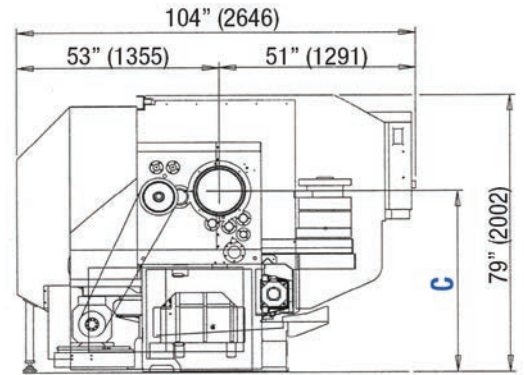
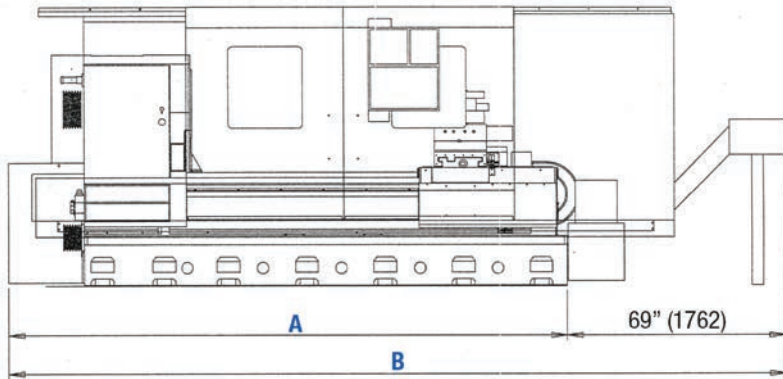
## CK 12 Torque Charts

### Low Gear



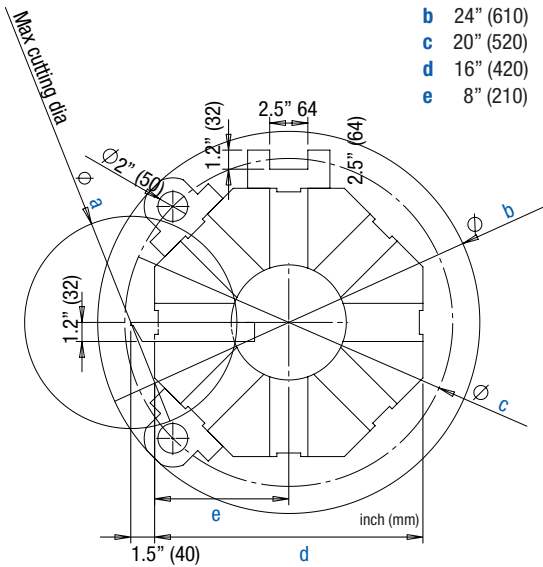
### High Gear





Model	A	B	Swing over bed C	
CK 7/10-1000	154" (3920)	224" (5682)	34" (870)	47" (1185)
CK 7/10-2000	198" (5020)	267" (6782)	40" (1020)	50" (1260)
CK 7/10-3000	241" (6120)	310" (7882)	46" (1170)	53" (1335)
CK 7/10-4000	284" (7220)	354" (8982)	50" (1270)	55" (1385)
CK 7/10-5000	328" (8320)	397" (10082)		
CK12/14-2000	204" (5180)	274" (5918)		
CK12/14-3000	247" (6280)	317" (6921)		
CK12/14-4000	291" (7380)	360" (7953)		
CK12/14-5000	334" (8480)	403" (8933)		

	34"	40"
a	13" (334)	14" (365)
b	24" (610)	25" (640)
c	20" (520)	21" (550)
d	16" (420)	17" (450)
e	8" (210)	9" (225)



### Capacity

Swing Over Bed	34"	40"	46"	50"
Maximum Cutting Diameter	18.3"	24.2"	30.1"	34.0"
Distance Between Centers	80" / 120" / 160" / 200"			
Maximum Cutting Length	82.7" / 126.0" / 169.3" / 212.6"			
Width of Bed	28"			

### Headstock

Spindle Bore	7.09" CK 7 / 10.1" CK 10 / 12.5" CK 12 / 14.7" CK 14			
Spindle motor	30 / 40 HP (30 min) (CK 7), 40 / 50 HP (30 min) (CK 10-14)			
Type of Spindle Nose	A2-15 (CK 7, CK 10), A2-20 (CK 12, CK 14)			
Hght. Floor to Spindle Center	46.7"	49.6"	52.5"	54.5"

### Gear Box

Number of Speed Ranges	4			
Spindle Speed (RPM)	7-750 (CK 7), 6-600 (CK 10) 10-400 (CK 12), 10-300 (CK 14)			

### Turret

V8 or H4/6 Hydraulic (Std) or AC Servo V8 (Opt)

### Traverse

Max Stroke X-Axis	20.8"			
Max Stroke Z-Axis	43.3" (CK 10) / 86.6" / 129.9" / 173.2" / 216.5"			
Rapid Traverse X-Axis	236 in/min			
Rapid Traverse Z-Axis	314 in/min			

### Motor

Servo Motor X-Axis	5.3 HP			
Servo Motor Z-Axis	9.4 HP			

### Ball Screw

X-Axis	Ø1.26", P=5			
Z-Axis	Ø2.5", P=10 (80" - 160") / Ø3.15", P=10 (200")			

### Tailstock

Tailstock Quill Center	MT #6			
Tailstock Quill Diameter	Ø7.09"			
Tailstock Quill Travel	11.8"			

### Dimension

Floor Space	W: 103" L: 236" / 280" / 323" / 367" / 410" (CK 7, CK 10) W: 103" L: 259" / 302" / 346" / 389" (CK 12, CK 14)			
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Weight (lbs) (CK 7/10)	34"	40"	46"	50"
	18,600 / 20,900 / 25,300 / 29,040 / 33,000	19,370 / 21,670 / 26,070 / 29,810 / 33,770	20,580 / 22,880 / 27,280 / 31,020 / 34,980	21,680 / 23,980 / 28,380 / 32,120 / 36,300

### Total Power Required

60 KVA



### Kingston Machine Tool

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