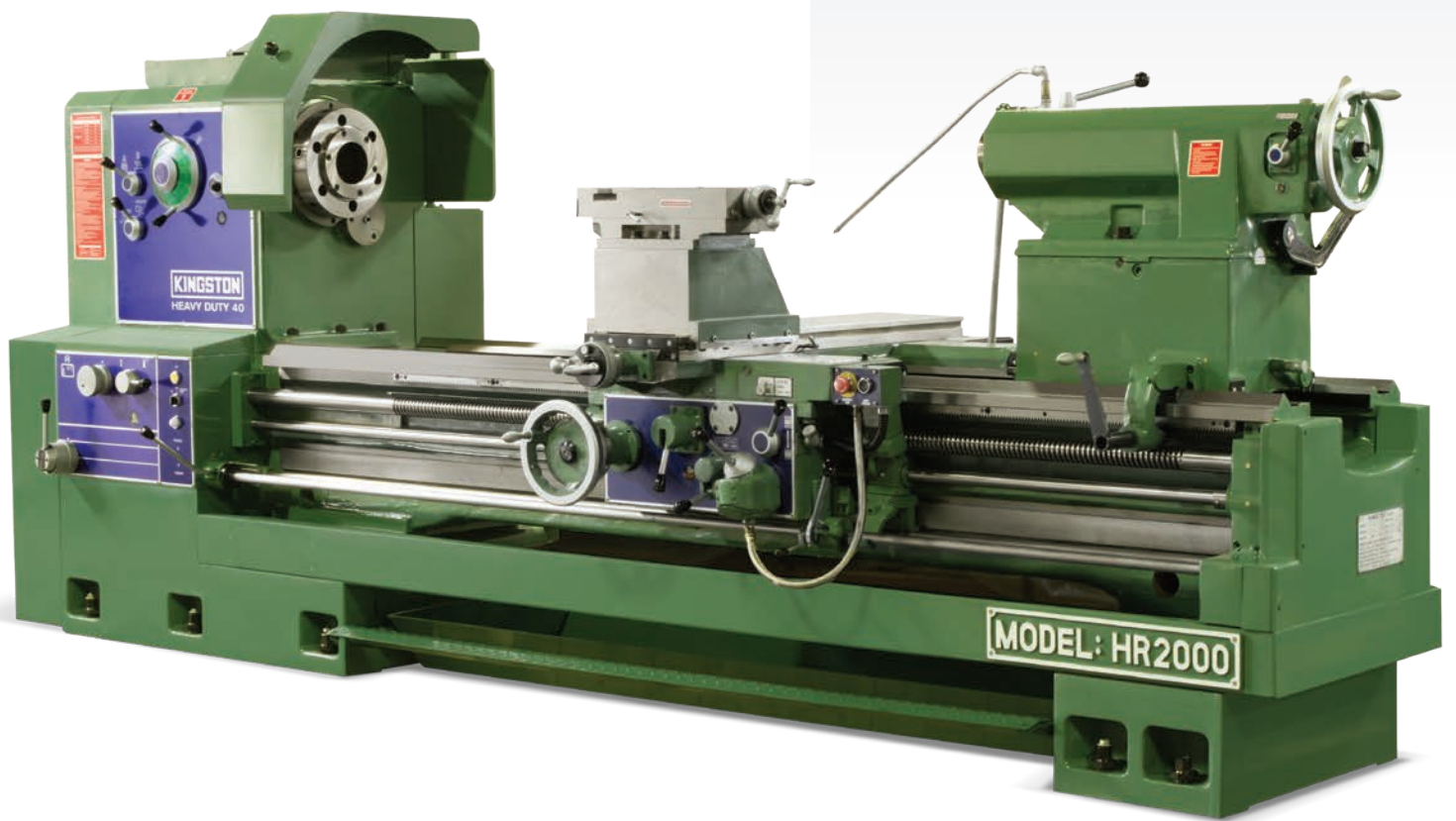


HR

Heavy Duty Precision Lathe



KINGSTON

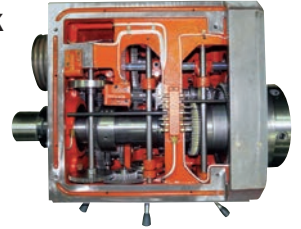
HR

Heavy Duty Precision Lathe

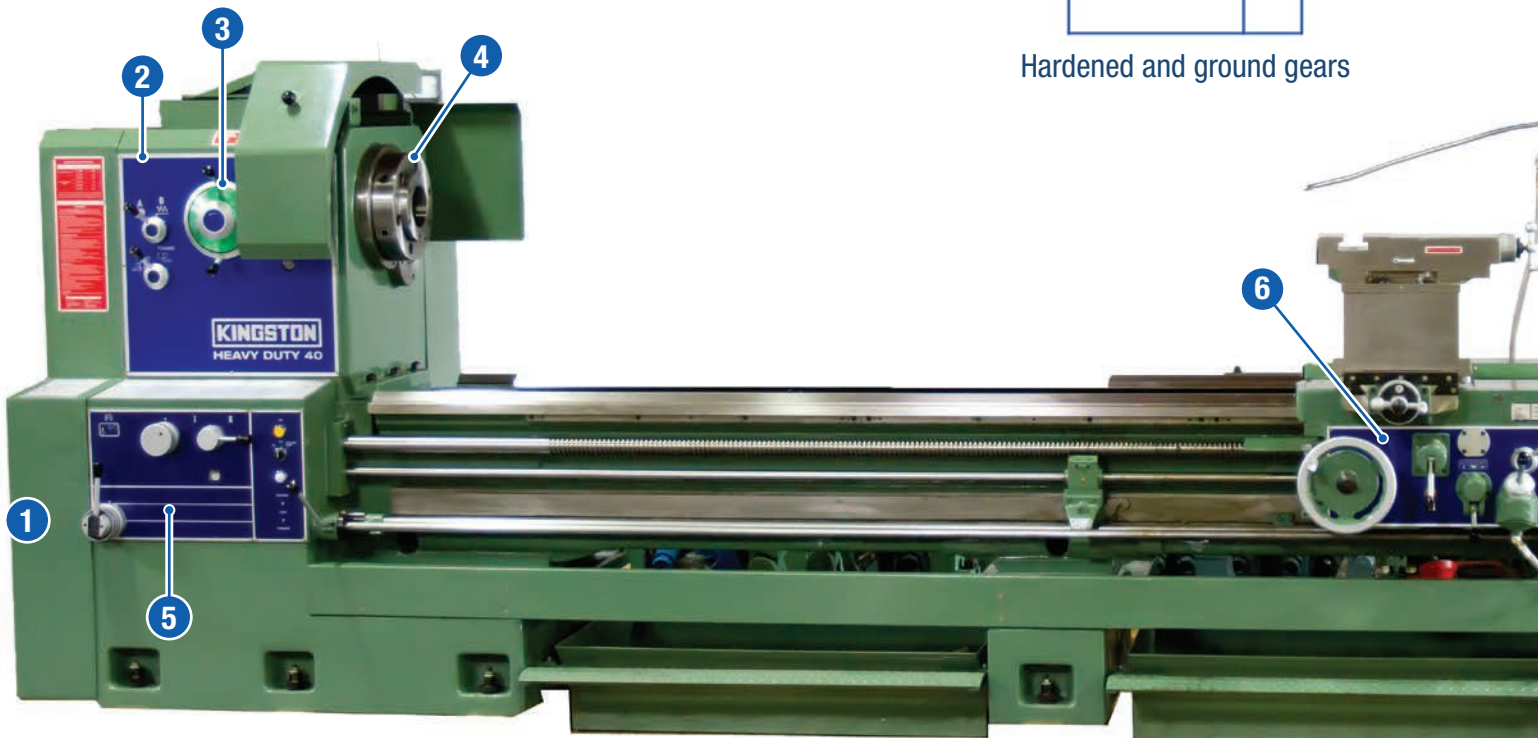
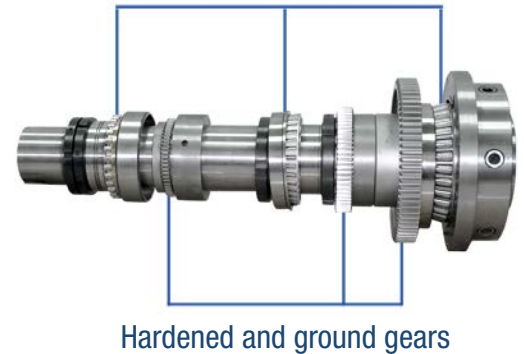
Known as “The Workhorse” in machine shops across the country, Kingston’s heavy-duty HR model has been the industry leader in its class for nearly 40 years. At the heart of this machine is a strong and rigid headstock with a hardened and ground main spindle, which features a 4.06” bore and a 3-point bearing support system for superior cutting capability. Operators benefit from the increased control that comes with 16 spindle speeds (8 – 800 rpm) and a wider range of feeds and threading choices. The unique rib structure of the 22” bedway is made with high-quality casting to ensure greater stability and accuracy in heavy-duty applications. The HR is available in 30”, 34” or 40” swing and lengths from 80” – 320”.

Machine Highlights

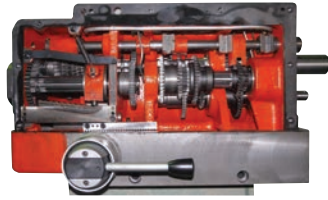
- 1 **20 HP High performance motor** with overload protection relay.
- 2 **Powerful headstock** for heavy-duty cutting capability.
- 3 **16 Step Spindle Speed** from 8 - 800 RPM.
- 4 **Main spindle 4.06” (104mm) bore** hardened and ground alloy steel spindle for greater accuracy.



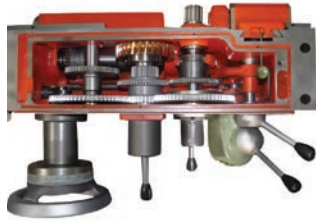
Three-point bearing support system for heavy duty cutting capability



- 5 Feed Gearbox** coarse thread cutting up to 8" lead.

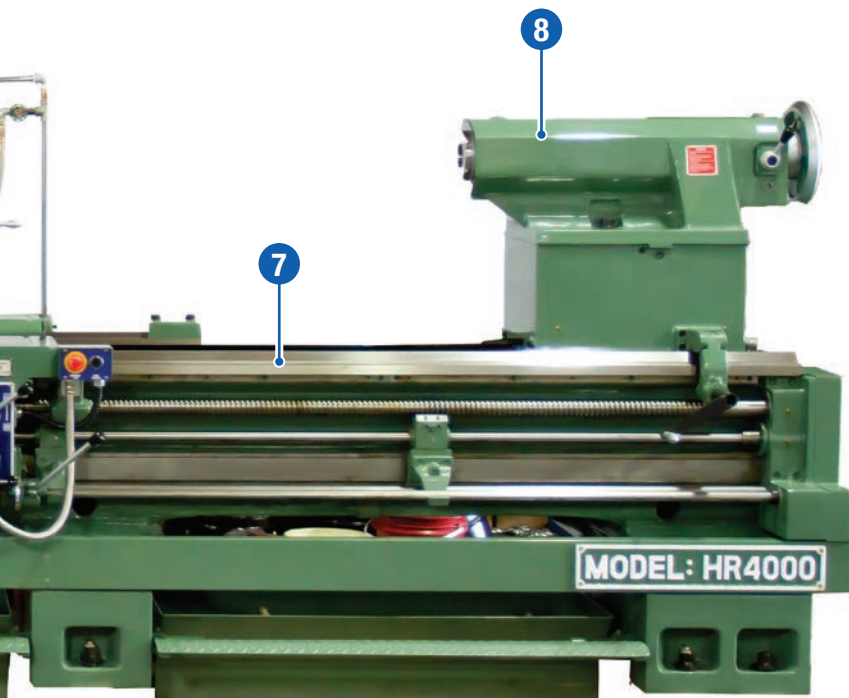


- 6 Apron** Overload protection device incorporates a cone clutch. An interlock mechanism for threading and feeds.



- 7 Bedway** Two V way, 22" wide, hardened and ground bedway.

- 8 Tailstock** Two speed tailstock with convenient clamp lever to lock the hardened and ground quill (5 1/8").



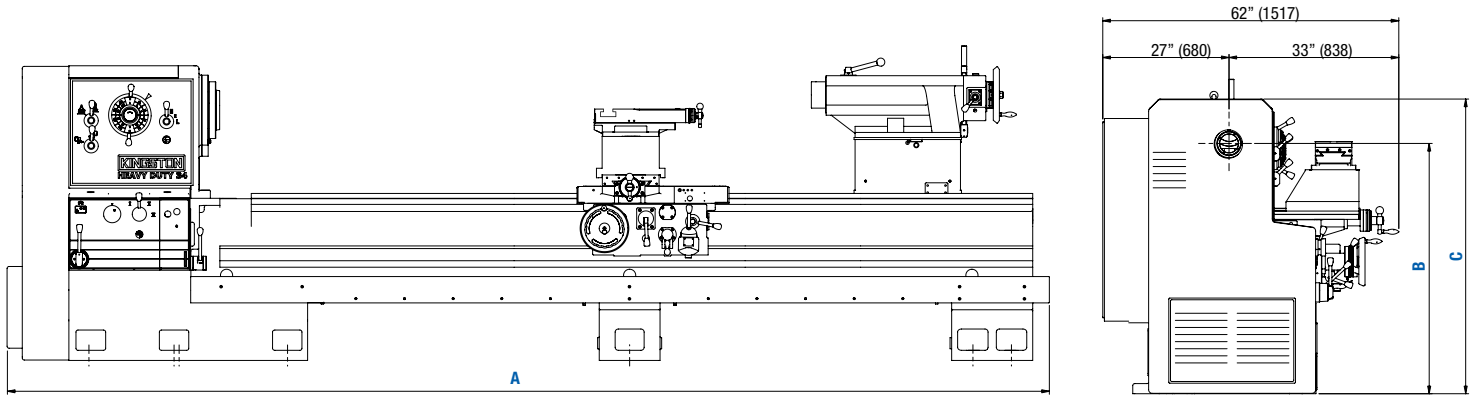
Standard Features

- 20HP, 230V/460V, 3 phase, 60 cycle motor, switch and wiring complete
- 4.06" (104mm) spindle bore
- Spindle nose: D1-11 camlock
- Headstock spindle adaptor ASA-450 to MT#6
- Hardened and ground bedways
- Two-speed drive tailstock quill

Optional Accessories

- 11.9", 19.7" steady rest with roller jaws
- 23.5" steady rest with roller jaws (40" swing only)
- Roller bracket
- 7.9" follow rest
- Hydraulic brake system (factory install)
- Splashguard (factory install)
- Telescopic Taper Attachment $\pm 8^\circ$ & 3.5"/foot, 19.7" (500mm) stroke





Model	A	B
HR-2000	162" (4122)	HR30: 46.5" (1180)
HR-3000	202" (5142)	HR34: 48.6" (1235)
HR-4000	243" (6174)	HR40: 51.8" (1310)
HR-5000	281" (7144)	C
HR-6000	325" (8264)	HR30: 52.7" (1339)
HR-7000	338" (9880)	HR34: 57.2" (1454)
HR-8000	404" (10264)	HR40: 60.2" (1529)

Capacity	HR-30	HR-34	HR-40
Swing Over Bed	30"	34"	40"
Swing Over Cross Slide	20.7"	25.1"	31.0"
Swing Over Gap (up to C.C. 160" only)	41.2"	45.6"	51.5"
Distance Between Centers	80" / 120" / 160" / 200" / 240" / 280" / 320"		
Width of Bed	22"		
Height from Floor to Work Center	46.5"	48.6"	51.5"

Headstock

Spindle Bore	4.09"
Taper of Spindle Bore & Center	ASA #450 x M.T. #6
Type of Spindle Nose	D1-11
Number of Spindle Speeds	16
Spindle Speed	8-800 RPM, 12-1200 RPM (option)

Gear Box

Number of Feed Changes	Fine (20), Normal (40), Course (30)		
Range of Feeds per Revolution	0.00048"-0.0168"	0.0024"-0.0337"	0.0384"-0.2694"
Longitudinal Cross	½ of Longitudinal Feed		
Leadscrew Diam. & Threads per Inch	1.9" 2 TPI		
Threading range	Whitworth	2 to 28 TPI (40) / Coarse 5/8" to 8" Pitch (16)	
	Metric	1 to 14 (31) / Coarse 16 to 200 mm Pitch (61)	
	Module	0.5 to 7 M (20) / Coarse 8 to 56 M (30)	
	D.P.	56 to 4 D.P. (40) / Coarse 3.5" to .5" D.P. (30)	

Tool Slide

Maximum Travel of Compound	9.4"
Maximum Travel of Cross Slide	21.2"

Tailstock

Tailstock Quill Travel	11.8"
Tailstock Quill Diameter	5.1"
Tailstock Center	M.T. #6

Motor

Main Drive Motor	20HP (15kw)
Coolant Pump Motor	1/4 HP

Dimensions

Floor Space (inch)	W: 82"	L: 193" / 233" / 256" / 312" / 358" / 390" / 431"
Weight (lbs)	30" Swing	10230 / 11770 / 14300 / 15840 / 18370 / 20420 / 23500
	34" Swing	10450 / 11990 / 14520 / 16060 / 18590 / 20640 / 23650
	40" Swing	10940 / 12250 / 14790 / 16330 / 18860 / 20900 / 23950



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