

# BIRMINGHAM

## HIGH SPEED PRECISION GAP BED LATHES



**YCL-1640**  
**YCL-1660**

### FEATURES:

- 7 1/2 HP
- ONE-PIECE CAST IRON BASE
- NO CHANGE GEARS REQUIRED
- 12 SPEEDS FROM 25-2,000 RPM
- D1-6 SPINDLE WITH 2 9/32" BORE
- 60 KINDS OF INCH THREADS FROM 112-2 TPI
- MAIN SPINDLE HARDENED & PRECISION GROUND
- BED MADE OF FINE GRAIN HIGH TENSILE CAST IRON
- BEDWAYS INDUCTION HARDENED & PRECISION GROUND
- ALL GEARS AND SHAFTS HARDENED & PRECISION GROUND
- MAIN SPINDLE SUPPORTED AT 3-POINT BY PRECISION BEARINGS

## SPECIFICATIONS

	ITEM / MODEL	YCL - 1640	YCL - 1660
CAPACITIES	Max. swing over bed		16 1/8"
	Max. length of workpiece	40"	60"
	Max. swing over Carriage		8 13/16"
	Max. swing in gap		25 3/16"
	Effective length in gap		9 1/2"
	Width of bed		11 13/16"
HEADSTOCK	Spindle Nose		D1-6
	Diameter of spindle thru bore		2 9/32"
	Taper of spindle center		M.T. #6 (sleeve #6 / #4)
	Spindle speeds		25 - 2,000 RPM, 12 steps
FEEDS & THREADS	Longitudinal feeds	.0011" - .0633" / REV, 42 kinds	
	Cross feeds	.00033" - .01837" / REV, 42 kinds	
	Metric threads	0.1 - 14 MM, 41 kinds	
	Inch threads	112 - 2 TPI, 60 kinds	
	Module threads	0.1 - 7 MM, 34 kinds	
	Diametral pitch threads	112 - 4 DP, 50 kinds	
CARRIAGE	Max. travel of cross slide	12 3/16"	
	Max. travel of top slide	5"	
TAILSTOCK	Diameter of tailstock quill	2 3/8"	
	Taper of tailstock quill center	M.T. #4	
	Max. Travel of tailstock quill	4 13/16"	
MOTORS	Power of main motor	7 1/2 HP	
	Power of coolant pump	9' x 4' x 5' 1/8 HP	9' x 4' x 5'
	Overall dimensions (WxLxH)	86" x 41" x 53"	107" x 41" x 53"
	Net weight, LBS	4,100	5,100

*Design and specifications are subject to change without notice.*

### STANDARD EQUIPMENT:

- |                             |                          |   |
|-----------------------------|--------------------------|---|
| • Follow Rest               | • Coolant System         | • Centers & Sleeve                              |
| • 14" Face Plate            | • Halogen Work Light     | • Tool Kit with Tools                           |
| • 7 1/2" Steady Rest        | • Removable Gap          | • Automatic Kick-Out Longitudinal Carriage Stop |
| • 10" 3-jaw Chuck           | • 4-way Tool Post        | • Full Length Foot Brake                        |
| • 12" 4-jaw Chuck           | • Thread Chasing Dial    | • Full Length Splash Guard                      |
| • Operation & Parts Manuals | • Hand Oil Pump for Ways |   |

### OPTIONAL EQUIPMENT:

- Taper Turning Attachment
- Quick Tool Changer
- 5-C Lever Type Collect Closer

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