

Cabinet legs, taper attachment, and chip pan shown, extra.

LEBLOND

17" REGAL

LATHE

BULLETIN R-130

LE BLOND REGAL LATHES

GEARED HEADSTOCK

Eight-speed selective geared headstock, with steel gears throughout, reverse to leadscrew, feed rod and compounding feed gears, operated by two convenient handles on the headstock; the upper to reverse direction of feed, the lower for the two feed gear ratios. All gears and shafts run in oil. *Multiple disc clutch and brake with larger motor can be furnished.*

GEARED FEED MECHANISM

Every provision has been made to insure a fool-proof feed mechanism. With the feed reverse and compounding gears entirely within the head the single gear train on the end of the lathe eliminates overhang of the bearings and gives a powerful, quiet drive. An automatic resetting safety device on the feed rod disengages the rod and feed mechanism when undue strain is thrown on these parts. Troublesome tumbler gears and swinging plates are eliminated. It is also very simple to change gearing on the end of the lathe to chase special threads. These lathes are built with both leadscrew and feed rod, a feature not found in other lathes selling in this price class. The leadscrew is used only for screw cutting, which insures its accuracy indefinitely.

ONE-PIECE APRON

A one-piece box casting totally encloses the positive clutch and gear train, all of which have a double bearing and are lubricated by one-shot forced feed which also oils the bed and cross slide ways. The positive clutch provides ease of operation and is a positive safeguard against spoiled work and a wrecked lathe. One lever controls the movement of the cross slide and the movement of the carriage and is interlocked to prevent double engagement. There is also an interlock between the feed rod and leadscrew. Rack pinion, rack wheel and hand wheel are mounted on anti-friction bearings.

NEW DESIGN TAILSTOCK

The tailstock has a long bearing on the bed and is carefully scraped to it, thus insuring perfect alignment to the headstock. It is so designed that the compound rest can be used parallel to it. A standard Morse taper hole in the spindle allows the use of drills and reamers with Morse taper shanks. The spindle is graduated for drilling.

COMPENSATING VEE-WAY BED

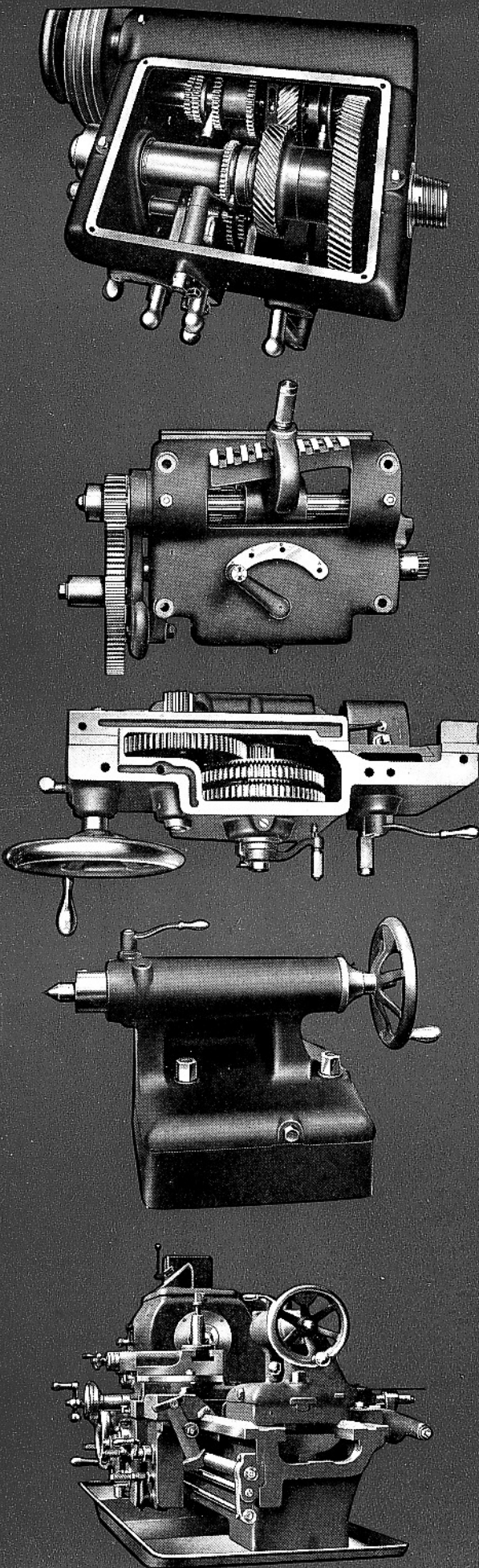
The bed is of the inverted vee-type, and is exceptionally heavy for lathes of this type. Cross girths at close intervals joining the two I-beam sections make the bed rigid against any twist or torsional strains. It is made of a very close-grained iron obtained by adding steel and nickel to the cupola mixture.

CARRIAGE has exceptionally long bearings on the bed for lathes of this type. The bridge also is wide and deep to withstand the pressure of the tool under cut.

The plunger pump in the apron forces lubricant to all apron bearings, and to the carriage and cross slide ways. Shear wipers on the carriage wings prevent grit and dirt working between the carriage and bed bearings.

CLUTCH AND BRAKE ATTACHMENT: One of the most productive attachments ever made available for low-priced lathes. Operated either from apron or headstock, stops spindle within a single revolution. Indispensable for production jobs where minutes count. Be sure to specify it on your next Regal.

The Regal Line is built in sizes 13", 15", 17", 19", 21" and 24".



SPECIFICATIONS

Bed Take between centers—Increasing Size / Bed Length . . . in increments of 6"	30"
Bed—Width	6'
Bed—Depth	13 $\frac{5}{8}$ "
Swing over Ways	11 $\frac{3}{4}$ "
Swing over Carriage and Taper Attachment	17 $\frac{3}{4}$ "
Driving pulley diameter and number of Vee belts	10 $\frac{1}{2}$ "
Driving Pulley Speed, R. P. M.	13"—4
Spindle Bearing Diameter—Front-Rear	370
Front Spindle Anti-Friction Bearing, O.D.	3 $\frac{3}{8}$ "—2 $\frac{1}{2}$ "
Rear Spindle Anti-Friction Bearing, O.D.	5 $\frac{3}{8}$ "
Spindle Nose Diameter	4 $\frac{1}{8}$ "
Spindle Nose Threads per Inch	2 $\frac{7}{8}$ "
Spindle Size of Hole	5
Spindle Size of Center	1 $\frac{9}{16}$ "
*Spindle Speed Range	Morse No. 4
Carriage length on ways	20—425
Carriage bridge, width and height of dovetail	20 $\frac{3}{4}$ "
Feeds, Number	7 $\frac{7}{8}$ "—5 $\frac{5}{8}$ "
Feeds, Range	56
Threads, Number001 to .125
Threads per Inch, Range	56
	1 $\frac{1}{2}$ —184

Leadscrew Diameter	1 $\frac{3}{16}$ "
Leadscrew, Threads per Inch	4
Tailstock Spindle Diameter	2 $\frac{7}{16}$ "
Tailstock Spindle Travel	6"
Tailstock Spindle Size of Center	Morse No. 4
Tailstock Spindle Size of Hole	1 $\frac{1}{16}$ "
Compound Rest Travel	3 $\frac{1}{16}$ "
Taper Attachment Max. Taper per ft.	3"
Taper Attachment Turns at One Setting	13"
Steady Rest, capacity	5"
Steady Rest (Special), Maximum capacity	8 $\frac{1}{2}$ " or 12"
Steady Rest (Special), work diameter	5" to 8 $\frac{1}{2}$ " or 8 $\frac{1}{2}$ " to 12"
Follow Rest, capacity	3 $\frac{1}{4}$ "
Motor Horsepower	Std. 1 $\frac{1}{2}$ Clutch 2
Motor Speed	1800

Rated Size	Bed Length	Distance Between Centers	PRICE CODE							Domestic Shipping Weight
			3-Phase, 60-Cycle, A.C.★		Single Phase 60-Cycle, A.C.★		110 or 220 Volts D. C.★		Extra for Pan	
			Standard Motor Drive	Disc Clutch and Brake	Standard Motor Drive	Disc Clutch and Brake	Standard Motor Drive	Disc Clutch and Brake		
Floor Type 17-inch	6'	30"	TDRRY	CDRRY	TDRHO	CDRHO	TDRHY	CDRHY	TDPHO	2000 lbs.
	7'	42"	TDRSQ	CDRSQ	TDRIG	CDRIG	TDRIQ	CDRIQ	TDPIG	2085 lbs.
	8'	54"	TDRTS	CDRTS	TDRJI	CDRJI	TDRJS	CDRJS	TDPJI	2170 lbs.
	9'	66"	TDRUU	CDRUU	TDRKK	CDRKK	TDRKU	CDRKU	TDPKK	2255 lbs.
	10'	78"	TDRVW	CDRVW	TDRLM	CDRLM	TDRLW	CDRLW	TDPLM	2340 lbs.

★NOTE—When ordering, specify if A.C. or D.C. current is available, also voltage in use. If A.C. current, specify phase and cycle as well.

*Speeds shown can be increased 50% for tungsten carbide tools.

STANDARD EQUIPMENT

A reversing type 1800 r.p.m. 1 $\frac{1}{2}$ h.p. motor, vee-belt motor drive complete, motor control switch of drum type with forward, stop and reverse positions, wiring in approved conduit.

Also large and small face plates, steady rest, follow rest, graduated compound rest, No. 1 tool post, collar and wedge, taper spindle sleeve, adjustable thread cutting stop, centers and necessary wrenches, foundation plan, instruction book, lag screws and washers.

ADDITIONAL ATTACHMENTS

Clutch and brake with push button control, turret on bed, turret tool post, Master lathe converter, Millerette converter, grinding, taper, draw-in and milling and keyway cutting attachments, chasing dial, connected rests, drill pads, special centers, metric transposing gears, chip pan, pump and piping, cabinet legs, chucks, tools, and many others.

STANDARD QUICK CHANGE BOX THREAD RANGE

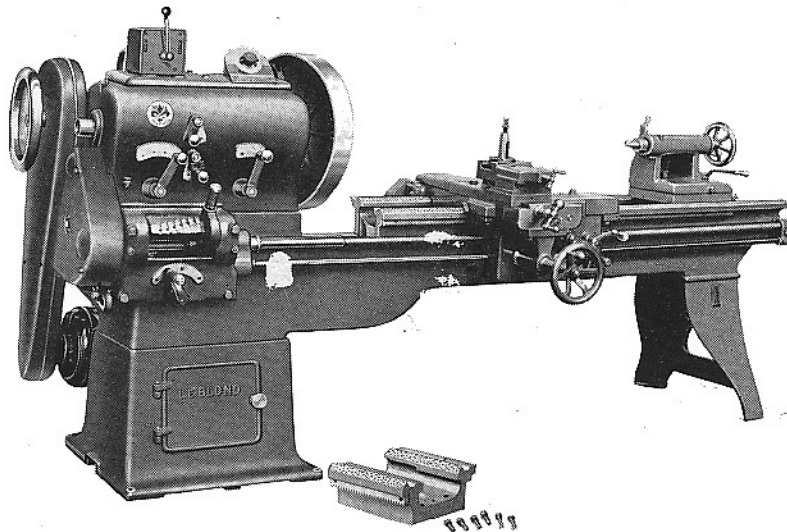
1 $\frac{1}{2}$, 1 $\frac{5}{8}$, 1 $\frac{3}{4}$, 2, 2 $\frac{1}{4}$, 2 $\frac{1}{2}$, 2 $\frac{3}{4}$, 2 $\frac{7}{8}$, 3, 3 $\frac{1}{4}$, 3 $\frac{1}{2}$, 4, 4 $\frac{1}{2}$, 5, 5 $\frac{1}{2}$, 5 $\frac{3}{4}$, 6, 6 $\frac{1}{2}$, 7, 8, 9, 10, 11, 11 $\frac{1}{2}$, 12, 13, 14, 16, 18, 20, 22, 23, 24, 26, 28, 32, 36, 40, 44, 46, 48, 52, 56, 64, 72, 80, 88, 92, 96, 104, 112, 128, 144, 160, 176, 184.

17", 19", 21", 24" LeBLOND REGAL GAP LATHES

Designed for easier operation, greater work capacity
and smoother performance at low cost

Gap Bed Dimensions

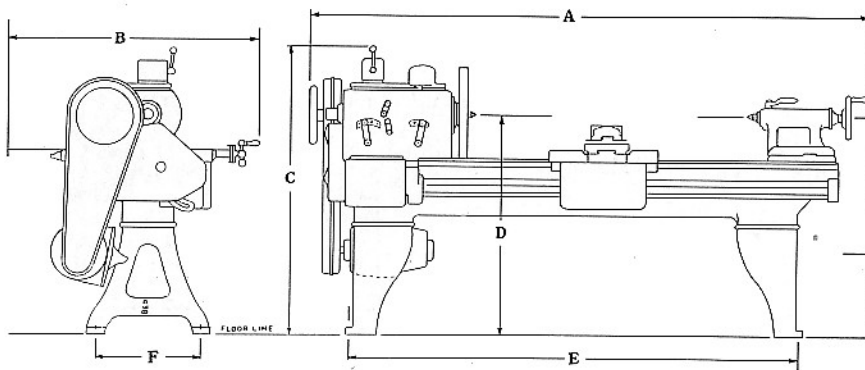
Swing over gap.....	26"
Width of gap.....	10 $\frac{3}{4}$ "
Distance from spindle nose to end of gap.....	8 $\frac{3}{4}$ "
Distance from face plate to end of gap.....	8 $\frac{3}{8}$ "



It is frequently necessary to use a large lathe to swing a piece of work, while the actual work or machining operation could be done on a lathe of smaller swing. For this purpose we can furnish 17", 19", 21" and 24" Regals with a gap bed, at the same time retaining all the improvements and labor-saving devices of our regular lathes.

This type of lathe is practically and economically adaptable to the classes of work found in repair and jobbing shops which, due to the many variations, require a versatile lathe of varying capacity.

CAPACITY...17" STANDARD REGAL LATHE



Size—17" x 30"—6' Bed	
FLOOR SPACE REQUIRED	
A.....	82 $\frac{1}{8}$ " [ⓐ]
B With Taper Attachment....	46 $\frac{5}{8}$ "
Without Taper Attachment....	38 $\frac{1}{2}$ "
HEIGHT	
C Total Height.....	53 $\frac{1}{2}$ "
D Height to Center.....	42 $\frac{1}{4}$ "
DISTANCE BETWEEN BOLT HOLES(Approx.)	
E.....	64 $\frac{1}{2}$ "
F.....	19 $\frac{3}{4}$ "
[ⓐ] Base Length—For longer beds, additional length.	
[ⓑ] With disc clutch and brake, add—6 $\frac{3}{8}$ ".	



THE R. K. LeBLOND MACHINE TOOL CO.

Cincinnati 8, Ohio, U. S. A.

Largest Manufacturer of a Complete Line of Lathes