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The
HOLLINGWORTH
= Lathe =

A TOOL OF NO REGRETS



Hollingworth 18

MANUFACTURED BY

HOLLINGWORTH MACHINE TOOL CO.

Covington, Ky., U. S. A.

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Hollingworth Quick Change Gear Pattern

A MODERN, substantial lathe of accurate construction, capable of turning out work rapidly and with precision. Has four-step cone, and standard form of thread cutting as shown, and is complete with back gears, hollow steel spindle, bronze boxes, power cross feed, power longitudinal feed, gear guards, etc., all as described on opposite side.

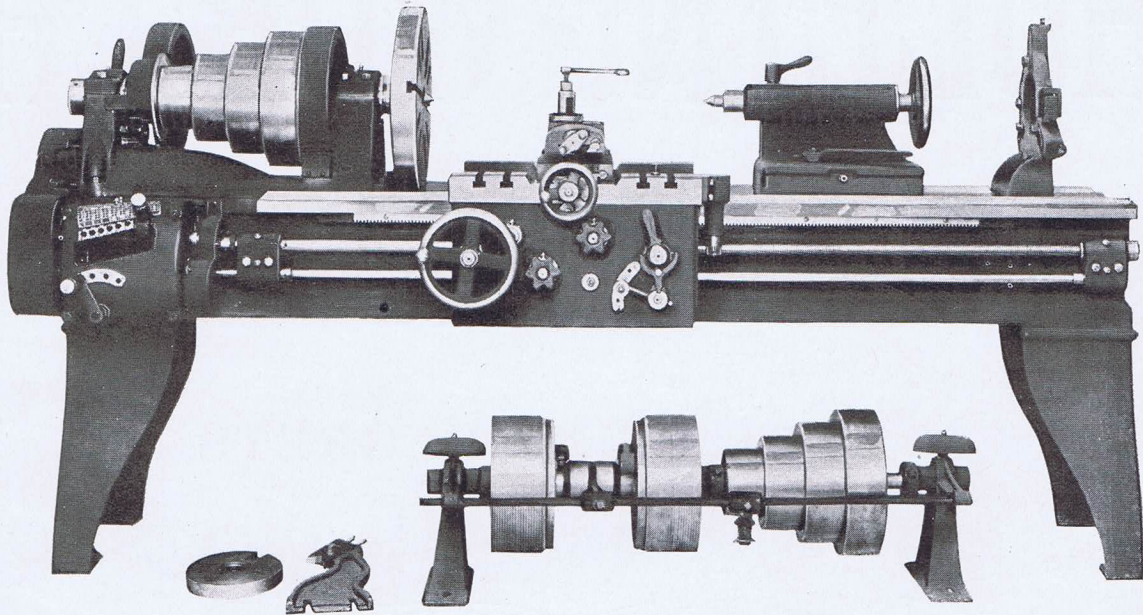


Fig. L. 18' x 6-8-&-10 foot Standard Cone Head Lathes.

PRINCIPAL DIMENSIONS

Swing over Shears.....	19"	Feeds per revolution of Spindle.....	6 $\frac{3}{4}$ to 104 $\frac{1}{2}$
Swing over Carriage.....	12"	Length of carriage bearing on shears.....	22 $\frac{1}{2}$ "
Length between centers on 6 ft. bed.....	30"	Size of tools.....	1 $\frac{1}{8}$ x 1 $\frac{3}{8}$ "
Spindle front bearing.....	2 $\frac{3}{4}$ " x 5"	Steady rest takes in.....	5 $\frac{1}{2}$ "
Spindle rear bearing.....	2 $\frac{3}{8}$ " x 4"	Countershaft friction pulleys.....	12 x 4"
Hole through Spindle.....	1 $\frac{7}{8}$ "	Speeds of Countershaft.....	175 and 225 r. p.
Spindle nose.....	2 $\frac{3}{8}$ " dia. 4 U. S. S. Threads	Weight of 8 ft. bed. 2550 lbs. skidded; 2750 lbs. boxed	81 cu. ft.
Headstock cone.....	4 steps, 3 $\frac{1}{2}$ " belt	Taper attachment turns all tapers up to 19 degrees	
Ratio of back gears.....	7 $\frac{1}{2}$ to 1	or 4" per foot, by 20" in length. Spindle No. 5	
Tailstock Spindle.....	2 $\frac{1}{8}$ d'a. 8 $\frac{1}{4}$ " traverse	Morse Taper, Spindle Bush and Tailstock Spin-	
Spindle speeds.....	9 to 468 r. p. m.	dle No. 4 Morse Taper,	
Number of Spindle speeds.....	16		
Threads per inch (including 11 $\frac{1}{2}$).....	3 to 46		

Regular Equipment includes the various features specified above, also Compound Rest, Double-Friction Countershaft, Large and Small Face Plates, Steady Rest, Follow Rest and Wrenches,

Extra Equipment, such as **Taper Attachment, Turrets, Chucks**, etc., furnished when wanted at additional charge.

General Description of "Hollingworth" Fig. "L" Engine Lathes

QUICK CHANGE PATTERNS

Our New Style "L" Lathes are designed to fully meet the requirements for strongly built, accurate machines, capable of obtaining the maximum results from the high speeds steels now generally used. They are heavily constructed, but the metal is so nicely distributed that their appearance is symmetrical and pleasing. The general design is the same for all sizes as noted in the following description,

The Bed is wide and deep, well webbed, unusually heavy and has three large V's and one flat way in front, thereby permitting cross bridge of carriage to be made extra strong. The pads for the lead screw and feed rod bearings are grooved and the bearings planed to fit them, assuring true and permanent alignment.

The Headstock is strong, massive and properly braced to prevent vibration or chatter. Four-step cones are regularly furnished. Double back gears also furnished when ordered, at extra charge. Removable guards are placed over head gears.

The Spindle is made of a special grade of crucible steel, insuring maximum strength and wear; it has a large hole bored through its entire length and is accurately ground. Spindle boxes are the best quality of phos-

pher bronze. Anti-Friction Thrust Bearings are provided, with nut for adjusting, the thrust washers reducing the friction to a minimum.

The Tailstock has a curved front, allowing the compound rest to be used at right angles to the slide. The tail spindle is of steel, accurately ground and fitted. By means of an adjusting screw, the tailstock may be set over for taper turning when desired.

The Carriage is large, securely gibbed front and back, and is scraped to a solid bearing on the bed throughout its entire length. It is entirely flat on top, so that work can be easily clamped upon it. Power longitudinal and power cross feeds are provided and the cross feed screw has Micrometer adjustment. When cross feed is in use, the carriage can be quickly clamped to the bed by means of a screw conveniently located.

The Compound Rest is large and substantial with long and broad wearing surfaces, fitted with taper gibs which require only one screw for adjustment. The Compound Rest Swivel is graduated in degrees, so that it may be quickly adjusted at any desired angle, the Compound Rest screw has Micrometer adjustment.

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The Apron is tongued and groved into the Carriage so as to avoid the strain being taken by the screws, and all parts are strong and good size, both the longitudinal and cross feeds are reversable from the apron. The longitudinal and cross feeds are both friction driven, and can be instantly thrown in or out.

The Lead Screw is accurately cut, the lead screw nut being of the usual split pattern, and is chased from the solid.

The Double-Friction Countershaft is fitted with large pulleys, the friction pulleys operate very easily and positively.

The Workmanship and Material throughout are of the very highest grade. The lead screw, feed rod and all rack and pinions are of high grade steel; all gearing is accurately cut from the solid; all spindles, studs, etc. are finished and ground to a bearing, and all sliding surfaces are carefully scraped to a bearing. Each machine is inspected and thoroughly tested in operation before being shipped.

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