





**Screw Cutting Engine Lathe No. 34**

13 inch Swing

Fitted with Power Cross-Feed, Automatic Longitudinal Feed and Compound Rest  
Equipped with Either Countershaft or Foot Power



South Bend, Indiana.

## Screw Cutting Engine Lathe No. 34

13 inch Swing

Our No. 34 Lathe is surpassed by none for efficiency, and all around usefulness and adaptability. The Cross Feed and the Longitudinal Feed can be engaged only one at a time. For manufacturing, garage work, tool work, and the repair shop, this lathe is especially recommended and will be appreciated by the practical mechanic. It is equipped with Power Cross Feed, Longitudinal Feed to the carriage. Lead Screw is splined and is driven by a worm, Graduated Compound Rest, and our improved reverse. This lathe will reduce easily a piece of 2" round machine steel to 1 $\frac{3}{8}$ " diameter in one chip.

It swings 13 $\frac{1}{4}$ " over the bed, 9" over the carriage, has a  $\frac{3}{4}$ " hole in spindle, No. 3 Morse Taper. Tool post takes  $\frac{1}{2}$  x 1" tools. Bed is stiff and rigid, tied by several heavy cross braces cast in. Bed has three V's and one flat way. (See description page 15.) Head Stock is web pattern, has a four step cone for 1 $\frac{1}{2}$ " belt, which with back gears gives it eight changes of spindle speeds. It has forged steel spindle, running in heavy phosphor bronze boxes, which are carefully scraped and fitted. Head is also equipped with our improved reverse. (See description page 15.) Tail stock is extra heavy and rigid, improved curved under, arranged for set over for turning taper. Tail Spindle has long bearing, self-ejecting centers. Carriage has T slots for clamping work, and may be locked when using cross feed. It is gibbed both front and back, and has an exceptionally heavy bridge or saddle. All racks and gears are accurately machined from the solid.

Lathe is indexed to cut standard threads from 4 to 40, right or left, including 11 $\frac{1}{2}$ " Pipe Thread. Threads may be cut either right or left without compounding. By compounding gears many other threads may be cut.

The Lead Screw is cut from a master lead, and is 1" in diameter, and will last a life time. All machine parts are protected from chips and dirt. Cross Feed Screw has Micrometer Adjustable Graduated Collar, reading in one thousandths of an inch. (See illustration page 16.)

EQUIPMENT includes compound rest, large and small face plates, two steel centers, center rest, change gears for screw cutting, necessary wrenches, also either Foot Power or Countershaft.

No. of Lathe	Length of Bed	Distance Between Centers	Swing Over Bed	Swing Over Carriage	Hole Through Spindle	Diameter of Spindle Nose	Net Weight	Approximate Shipping Weight	Countershaft Pulleys	Countershaft Speed
34	5'	33"	13 $\frac{1}{4}$ "	9"	$\frac{3}{4}$ "	1 $\frac{3}{4}$ "	725	880	8 x 2 $\frac{1}{2}$	225
34	6'	45"	13 $\frac{1}{4}$ "	9"	$\frac{3}{4}$ "	1 $\frac{3}{4}$ "	770	940	8 x 2 $\frac{1}{2}$	225
34	7'	57"	13 $\frac{1}{4}$ "	9"	$\frac{3}{4}$ "	1 $\frac{3}{4}$ "	815	980	8 x 2 $\frac{1}{2}$	225
34	8'	69"	13 $\frac{1}{4}$ "	9"	$\frac{3}{4}$ "	1 $\frac{3}{4}$ "	860	1040	8 x 2 $\frac{1}{2}$	225
34	10'	93"	13 $\frac{1}{4}$ "	9"	$\frac{3}{4}$ "	1 $\frac{3}{4}$ "	1170	1280	8 x 2 $\frac{1}{2}$	225

Raising Blocks, to turn and bore 18" swing, \$15.00.

10-foot bed on No. 34 lathe has three legs. Countershaft for No. 34 lather shown and described on page 16.