

Circular No. 11-4

11-inch Quick Change Gear Precision Lathe—Series "T" Pedestal Motor Driven Type

The 11-inch Quick Change Gear Lathe with pedestal motor drive is recommended to those who desire an excellent motor driven lathe at a reasonable price. The full quick change gear box provides an unusually wide range of screw threads and power feeds. See page 7 for description of gear box.

The Pedestal Motor Drive is convenient, efficient and practical. It permits easy shifting of the cone pulley belt, providing an unusually wide range of spindle speeds. A precision belt tension adjustment is provided. The belt drive to the spindle is silent in operation and develops a smooth, steady pull entirely free from gear vibration. See page 5.

Improved Features of lathe include: alloy steel headstock spindle, carburized, hardened and ground; double wall apron with all gears of steel and multiple disc friction clutch for operating automatic cross feeds and automatic longi-

tudinal feeds; easy reading micrometer graduated collars; and semi-steel lathe bed. See pages 7 to 11 for additional features, and page 36 for specifications of this lathe.

Attachments, Chucks and Tools for this lathe are listed on pages 90 to 111. This complete line of attachments and accessories greatly increases the usefulness of the lathe. Most of the attachments may be purchased either with the lathe or later.

Regular Equipment included in price of this lathe consists of: ½ H.P.instant reversing motor, reversing switch, wiring, V-belt, flat leather belt, large and small face plates, forged steel heat-treated tool post, adjustable thread cutting stop, tool steel centers for headstock and tailstock spindles, headstock spindle sleeve, wrenches, quick change gear box, installation plan, and book "How to Run a Lathe."

ll-inch Quick Change Gear Pedestal Motor Driven Lathes

Bed Length	31/2-ft.	4-ft.	5-ft.	51/6-ft.
Distance Between Centers. Catalog Number Shipping Weight of Lathe Code Word.	911-Z 833 lbs.	24-in. 911-A 863 lbs. Melon	36-in. 911-B 933 lbs. Mijem	42-in. 911-S 968 lbs. Mofel

Bench lathes similar to the above are also made. See price list.

All Page References Apply to Catalog 100



Specifications of Series "T" 11-inch Precision Lathes

Applying to all 11-inch Lathes Shown on Pages 37 to 43

All types of 11-inch swing lathes shown in this catalog are identical in workmanship, material and quality, having similar headstock, tailstock, carriage and bed. The only difference between the various models of lathes is in the type of drive and the equipment supplied.

Capacity of Lathe Swing over bed and saddle wings
Threads and Feeds
Thread cutting range Quick change gear lathe—48 threads R.H. or L.H. 2 to 112 per inch Standard change gear lathe—43 threads R.H. or L.H. 4 to 112 per inch
Longitudinal feeds through friction clutch Quick change gear lathe—24 feeds R.H. or L.H
Quick change gear lathe—24 feeds
Headstock The state of the stat
Hole through spindle. 75%" Maximum collet capacity. 175%" Size of Center, Morse taper No. 2 Spindle nose diameter and threads per inch 15%"-8 Width of cone pulley step for belt 115%" Large face plate diameter 9%
Small face plate diameter
Standard spindle speeds R.P.M. of spindle, back gears engaged 40, 69, 118 R.P.M. of spindle, direct belt driven 238, 377, 608
High spindle speeds in addition to standard spindle speeds (Optional at extra cost) R.P.M. of spindle, back gears engaged
Compound Rest Cross slide will travel
Tool Post
Size of opening for tool holder shank $38'' \times 78''$ Size of cutter bits tool holder takes $14''$ sq.
Tailstock
Size of Morse taper centers No. 2 Spindle travel 3" Each graduation on tailstock spindle advances spindle $\frac{1}{16}$ " Tailstock top will set over for taper turning $\frac{7}{8}$ "
Motor
Horsepower of standard motor used on 11-inch motor driven lathes 1/2 R.P.M. of standard motor 1725 Number of V-belts used 1
Countershaft Speed in R.P.M. of shaft 300 Size of pulleys 67/8" x 23/16"
Taper Attachment (telescopic type) Maximum length turned in one setting Maximum taper per foot 3"
Metric Lathe Specifications
Applying only to lathes with metric lead screw and metric graduations. See pages 108 to 110. Quick change gear lathe cuts 46 threads R.H. or L.H. 7.5 mm to 0.2 mm Standard change gear lathe cuts 35 threads R.H. or L.H. 7.0 mm to 0.2 mm Lead screw pitch 3.0 mm Cross feed screw pitch 2.5 mm Compound rest feed screw pitch 2.5 mm Each graduation on cross feed micrometer collar advances tool 0.02 mm Each graduation on compound rest micrometer collar advances tool 0.02 mm
Each graduation on tailstock spindle advances spindle