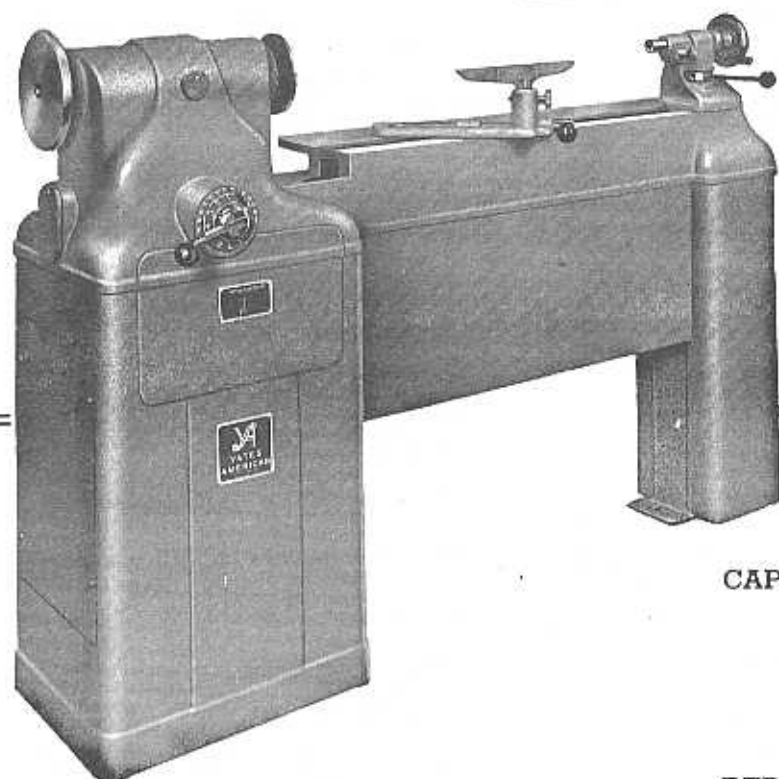


J - LINE



MACHINES



J-170

12" LATHE

The J-170 12" Swing Speed Lathe is engineered to give extreme accuracy, efficiency and safety at a very low cost. This versatile machine can be equipped to do both wood turning and metal spinning operations.

The variable speed drive allows the operator to select any speed from 630 RPM to 3450 RPM without changing pulleys or belts, and without stopping the machine. The quality of work is improved by having available the exact speed needed for the type of operation being performed.

Lubricated-for-life bearings are used throughout to assure true-running of the spindle and to reduce maintenance time and costs.

Finished in horizon gray, the J-170 Lathe is an example of the best in modern machinery design, both in appearance and performance.

| Type | Floor Space | Weight |
|---|-------------|----------|
| VBD Wood Turning | 24" x 64" | 525 lbs. |
| VBD Metal Spinning | 24" x 64" | 525 lbs. |
| VBD Combination Wood Turning and Metal Spinning | 24" x 64" | 525 lbs. |

CAPACITY On the solid bed lathe, maximum swing over bed is 12". On gap bed lathe, the gap will allow turning stock up to 16½" in diameter by 4½" thick. On either machine, distance between centers is 39"

BED The bed and headstock support is a massive, heavily ribbed, one piece casting. This insures positive alignment and permanent stability. The distance from the floor to the center of the spindle is 42"

FRAMES Headstock and tailstock frames are of heavy, extra-strong pressed steel to give rigid support. Large removable panel on left side of headstock frame provides ready access to motor and variable speed drive. All drive parts are completely enclosed. Provision has been made to securely bolt machine to the foundation on which it rests.

HEAD-STOCK Precision-ground alloy steel spindle runs on widely spaced lubricated-for-life ball bearings, permitting unexcelled accuracy and long, trouble-free operation. Both ends of the spindle are accurately threaded to receive chucks and face plates. The spindle has a standard No. 2 Morse taper for spur centers and is hollow to permit rapid removal of centers. A plunger type spindle lock secures the spindle when changing face plates. This lock is designed so that it cannot be engaged when machine is in operation.

TAIL-STOCK

Tailstock spindle has a standard No. 2 Morse taper for cup centers. It is adjusted by means of a large handwheel with a revolving handle and is positively guided in a straight line to prevent rotation. Tailstock spindle is locked with a large knurled fingerwheel, while a slight movement of the heavy tailstock locking handle instantly locks the entire tailstock securely. At all times there is alignment between the tailstock and headstock centers because tailstock assembly is accurately keyed to the bed. Tailstock center is self-ejecting.

TOOL REST

The tool rest assembly is quick-locking, with an extra-long base so that rest can be placed exactly where required. All tool rests are chilled to prevent marring and to reduce wear on the guiding lip.

CONTROL

Choice of toggle switch, manual or magnetic starter is offered. On a standard machine, starting and stopping is positively controlled by the operator at any speed. If desired, the lathe can be furnished with a magnetic starter to start at low speed only and to stop at the discretion of the operator. Any speed from 700 RPM to 3200 RPM can be selected without changing belts, shifting the motor, or stopping the lathe.

MOTOR AND DRIVE

A $\frac{3}{4}$ H.P., 1800 RPM, 3-phase, 60 cycle A.C., 220 or 440 volt motor is furnished on the wood turning ma-

chine. On the metal spinning machine, a 1 H.P., 1800 RPM, 3-phase, 60 cycle A.C., 220 or 440 volt motor is furnished. The motor drives the spindle through Vee-belts and a variable speed pulley giving spindle speeds from 700 RPM to 3200 RPM. Other frequency, phase and voltage motors supplied if desired.

WOOD TURNING EQUIPMENT

- 1 — 6" tool rest
- 1 — 12" tool rest
- 1 — $\frac{3}{4}$ " cup center
- 1 — 1" spur center
- 1 — 6" face plate — front
- 1 — 8" combination hand wheel and face plate — rear
- 1 — face plate wrench
- 1 — center drift rod
- 1 — blue print holder
- 1 — rear tool shelf

METAL SPINNING EQUIPMENT

- 1 — metal spinning tool rest
- 1 — ball bearing tail center with plug center and $\frac{5}{8}$ " cup center
- 1 — 6" face plate — front
- 1 — 8" combination hand wheel and face plate — rear
- 1 — face plate wrench
- 1 — center drift rod
- 1 — blue print holder
- 1 — rear tool shelf
- 1 — set of 5 metal spinning tools with handles consisting of the following: diamond point, flat tool, pointed tool, flat ball, beading roll.

EXTRA EQUIPMENT

- Ball bearing tail centers.
- $\frac{3}{4}$ H.P. single phase motor with control in place of $\frac{3}{4}$ H.P. 3-phase motor.
- 1 H.P. single phase motor with control in place of 1 H.P. 3-phase motor.
- 1 H.P. 3-phase motor with control in place of $\frac{3}{4}$ H.P. 3-phase motor.
- 1 — 3" rosette chuck