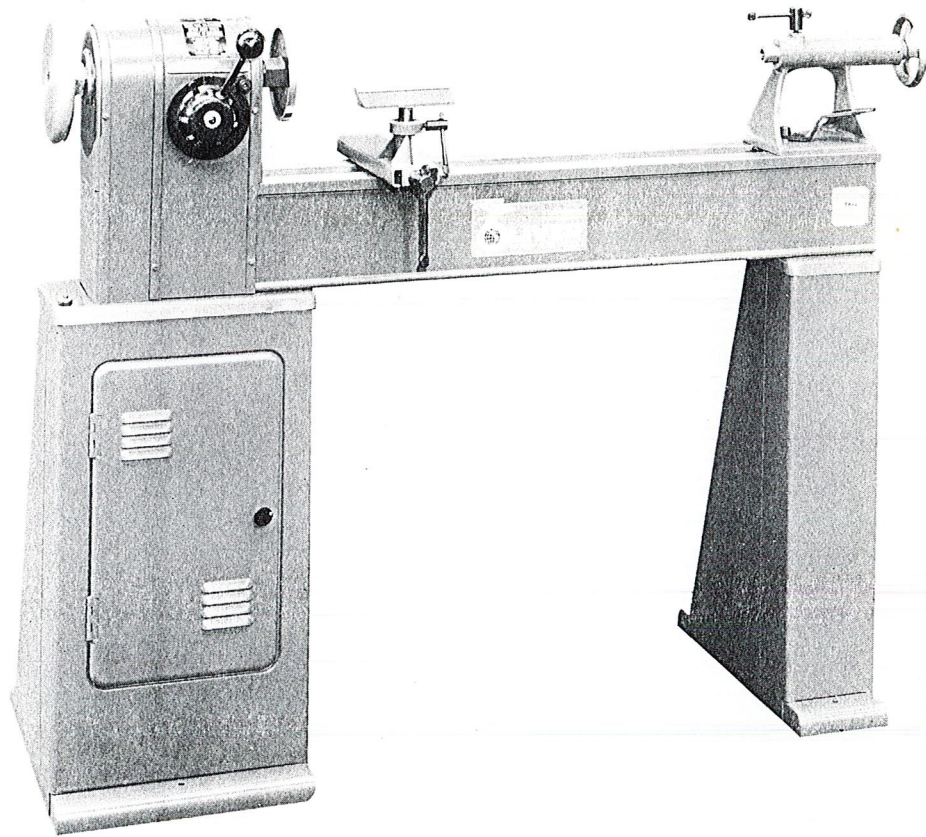


# No. 167 LATHE



# OLIVER

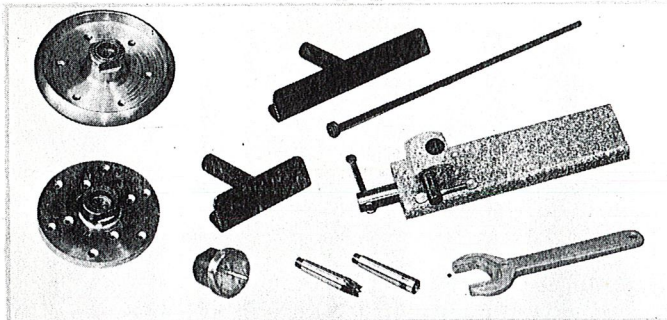
OLIVER MACHINERY COMPANY, GRAND RAPIDS, MICH. 49504



# Oliver

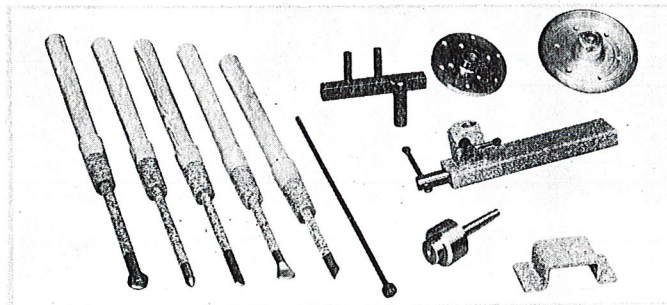
## No. 167 Lathe

### ACCESSORY EQUIPMENT GROUPS



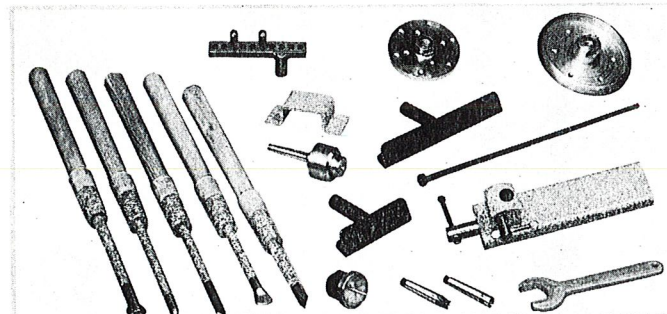
**GROUP W FOR WOOD TURNING**

$\frac{3}{4}$ " spur and  $\frac{3}{4}$ " cup centers; 6" front faceplate and 8" rear combination faceplate and handwheel;  $\frac{1}{4}$ " screw chuck; Steel tool rest holder with 6" and 12" single pole rests, knockout rod and face plate wrench.



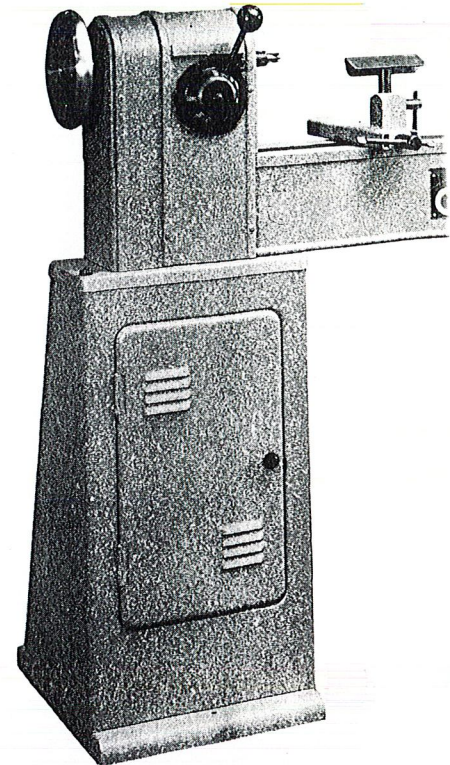
**GROUP M FOR METAL SPINNING**

5 spinning tools; Pin rest and two pins; ball bearing tail center; 6" front face plate and 8" combination rear face plate and handwheel, steel tool rest holder, knockout rod and face plate wrench.



**GROUP MW FOR WOOD TURNING AND METAL SPINNING**

$\frac{3}{4}$ " spur and  $\frac{3}{4}$ " cup centers; 6" front face plate and 8" combination rear face plate and handwheel;  $\frac{1}{4}$ " screw chuck; 5 spinning tools; Steel tool rest holder with 6" and 12" single pole rests; pin rest and two pins; ball bearing tail center, knockout rod and face plate wrench.



### HEADSTOCK

The all-steel headstock has heavy spindle and permanently lubricated ball bearings. Speed control lever starts and stops Lathe.

Spindle has center hole to facilitate removal of centers, and a No. 2 Morse taper bore for holding centers and permanently lubricated ball bearings. The bearings provide thrust capacity in both directions. Bearing housings are bored after welding to insure accuracy.

Speed lever operates variable pitch sheave in unison with similar sheave mounted on motor shaft. Spindle lock functions with speed control handle and cannot be engaged unless motor power is off. It can be held in locked position to permit use of both hands to remove or mount face plates.

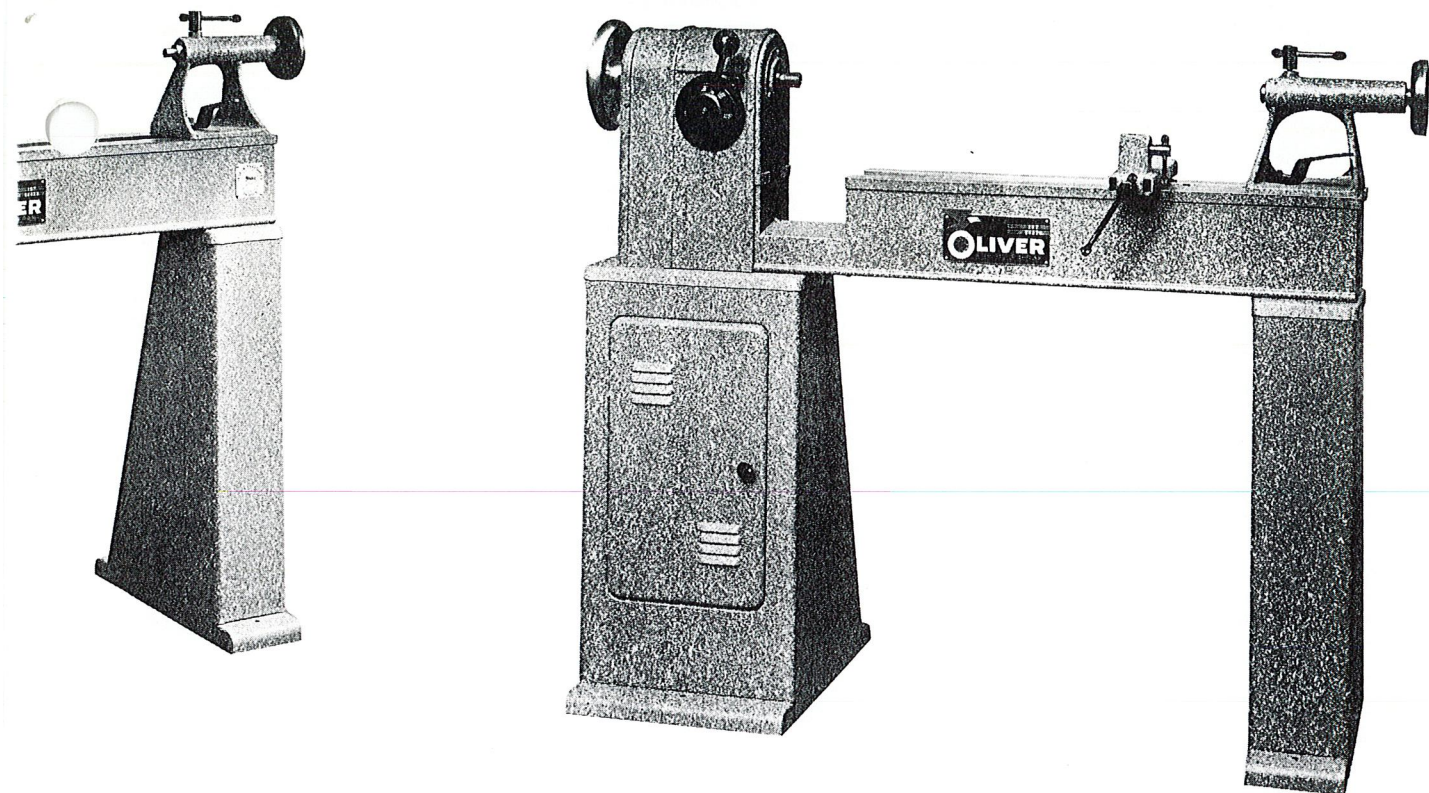
### MOTOR

The driving motor is mounted inside the cabinet leg. It can be removed from the Lathe without disturbing headstock. It is 1 H.P., 1800 R.P.M. and has high torque features needed for wood turning and metal spinning.

### THE BELT DRIVE

A standard wide-face type V-belt connects the variable speed sheaves. It runs with minimum noise and vibration. It can be removed and replaced in less than five minutes without disassembling headstock spindle, motor or related parts. Drive is set for speeds from 600 to 3600 R.P.M.





### THE BED

A completely new concept in Speed Lathe design and construction is found in the "Oliver" No. 167. It incorporates welded steel construction and makes use of latest techniques in steel die forming and arc and resistance welding to put strength where needed to make this a most rigid Lathe. The ductility of steel eliminates cracked or broken castings.

Bed is normally furnished in plain type. It is 6½" wide by 6¾" deep. Has a 2¾" diameter steel tube running lengthwise. Has steel ways 2" wide, ¾" thick. Beds are available 4', 5' or 6' long. Lathe is also available with a gap-type bed, for using face plates up to 19" diameter, and turning up to 4" wide.

### LEGS

Legs are welded from 14-gauge steel. Headstock leg has storage space with hinged door. They provide maximum clearance for operator's feet.

### TAILSTOCK

The tailstock, of open side design, is secured to the bed by a quick-acting lever clamp. The ground steel spindle is bored for No. 2 Morse taper. Non-galling clamp locks spindle in position. The tailstock center is removed by backing off the tailstock spindle. Spindle and nut are of

adequate size and capacity to handle thrust loads required in metal spinning.

### HAND TOOL REST HOLDER

The all-steel unit is quickly adjusted to any position. It can be locked securely on bed by turning front clamp lever. The rest clamp allows tool rest to be set above or below center of work.

### ELECTRICAL CONTROL

Standard electrical equipment consists of a magnetic starter. For safety the motor only starts at low speed. Two hands are required to start the motor. To start, the operator depresses the start button with one hand and moves the speed control lever from off to start position with the other.

### INTERCHANGEABLE ACCESSORIES

Owners of "Oliver" No. 159, No. 2159 and No. 51 Speed Lathes will find that face plates, centers and other accessories can be used on this No. 167 Speed Lathe.

### REAR END TURNING

This Lathe is regularly furnished with an 8" Combination handwheel and face plate for rear end turning at left end of headstock spindle.

# SPECIFICATIONS

## CAPACITY

12 $\frac{5}{8}$ " diameter over bed.  
45" between centers with 5' bed.  
10" diameter over rest holder.

## HEADSTOCK SPINDLE

No. 2 Morse Taper in right hand end.  
Threaded on both ends.  
 $\frac{5}{8}$ " hole entire length.

## MOTOR

1 H.P., 1800 R.P.M.

## SPINDLE BEARINGS

Oversize ball bearings, permanently lubricated.

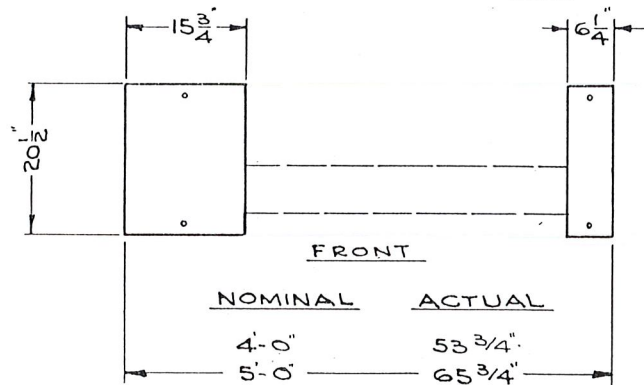
## TAILSTOCK

Plain open type 7" long, 6" wide.  
No. 2 Morse Taper bore.  
Spindle travel 4".

Shipping Weight 4' bed, 465 pounds

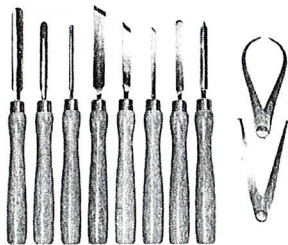
5' bed, 500 pounds  
(All specifications are subject to change without notice.)

SOLID LINES INDICATE FLOOR CONTACT AREA. DOTTED LINES SHOW PROJECTED AREA.



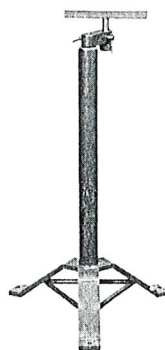
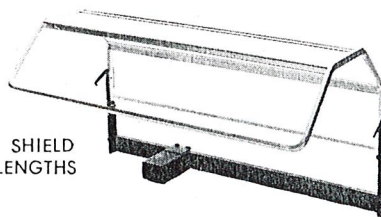
ALL DIMENSIONS ARE APPROXIMATE

## ACCESSORIES

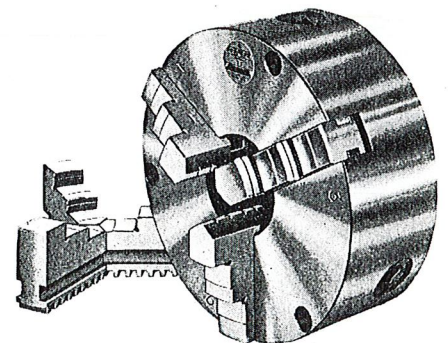


2400-7900  
WOODTURNING TOOLS

LATHE SAFETY SHIELD  
36" AND 42" LENGTHS



NO. 256 FLOOR STAND



Above is shown a Universal 3-Jaw, 6" light duty chuck. This chuck can be mounted on a special face-plate to fit any Oliver speed lathe. We can also furnish an Independent 4-Jaw chuck for use on speed lathes.

4520-2406-1001  
6" RIGHT ANGLE REST

OLIVER MACHINERY COMPANY, GRAND RAPIDS, MICH. 49504  
TELEPHONE NO. 616-456-1591

TELEX NO. 22-6483