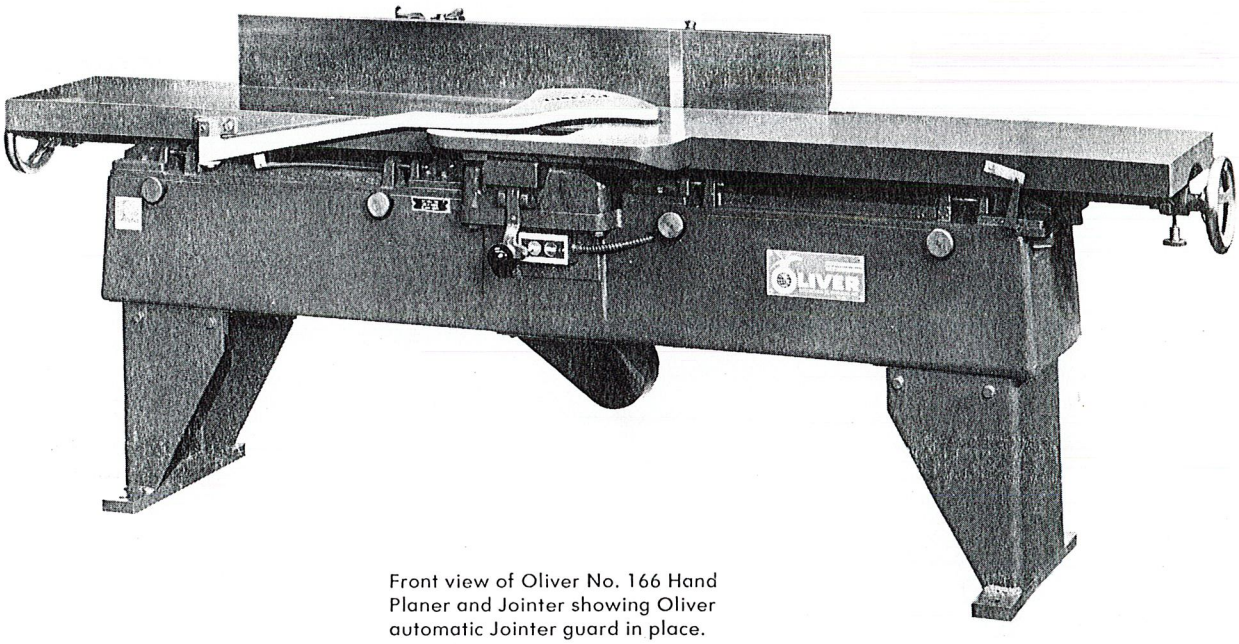
# No. 166
# Hand Planer and Jointer



Front view of Oliver No. 166 Hand Planer and Jointer showing Oliver automatic Jointer guard in place.

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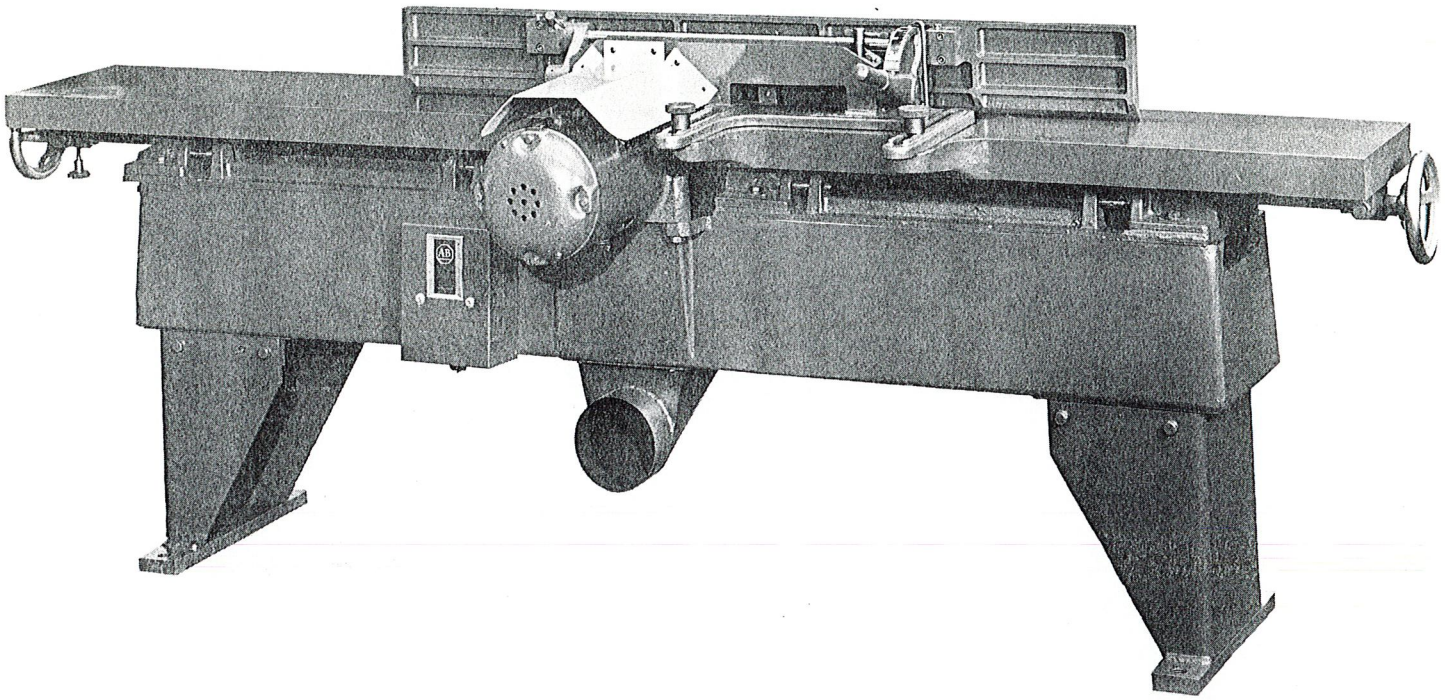


# The most efficient Jointer for woodworkers is made in five sizes

## CAPACITY

The No. 166 Jointer is made in five widths: 12", 16", 20", 24" and 30" wide. Machine will rabbet to ¾" deep on 12-inch, 16-inch and 20-inch machines. The 24-inch and 30-inch machines will rabbet to ½" deep.

## CONSTRUCTION

This Jointer is built according to machine tool standards characteristic of all Oliver precision tools. We have preserved the finest features of our heavier machines and at the same time used enough metal in the right places to absorb vibration and produce most satisfactory results.

## BED

The heavy bed is strongly ribbed. It measures 78" long, 10" high, width according to size. The bridge design eliminates all vibration and allows ample foot-room for the operator. Directly below the cylinder there are two partitions cast in the bed to direct shavings straight downward and to provide easy connection to exhaust systems when desired.

### TABLES

The heavily ribbed tables are machined and ground superbly smooth. They are easily adjusted. Each table is fitted with a steel lip next to the cutting cylinder, which can be removed and replaced at any time. This important feature avoids nicking edges of tables. Front table has scale and pointer to show depth of cut. Each section is 48" long, width according to size (16-inch machine has infeed table 18" wide, and outfeed table 17" wide). Each table can be drawn 18" away from cylinder. Vertical adjustment is ¾"; throat is 1¾" wide.

### SLIDING FRAMES

These frames carry the table and move to and from the cylinder in dovetailed ways planed in the bed. They can be readily drawn 18" away from the cylinder when sharpening or removing knives. The shoes are tongued and grooved to the sliding frame, and securely bolted. They have wide bearing surfaces and control the correct plane of the tables.

### CYLINDER

The cylinder is machined, ground and dynamically balanced. It is regularly equipped with three tungsten-chromium thin steel knives. Can be equipped with four knives if desired. Cutting diameter is 5", speed 3600 r.p.m.

### CYLINDER BEARINGS

The ball bearings are of the highest grade and of oversize capacity. We guarantee our ball bearing construction to be the most efficient type for hand planers and jointers.

### FENCE

This fence is rigidly held in position, and can be moved across the table its full width. It is 53" long, 6" wide, and bevels to any angle up to 45 degrees by means of a tilting lever. Scales and pointer show degree of tilt. The fence, when not in use, rests on extension brackets out of the way. Notice especially that the fence on this jointer is mounted on the rear table. It has a scale showing exact thickness of finished stock.

### GUARDS

To cover that part of the knives in front of the fence, an automatic jointer guard is regularly furnished. To cover that part back of the fence, a crescent shape guard is fastened to the slide that carries the fence. In this way maximum safety is provided for the entire length of the cutterhead regardless of where the fence is located.

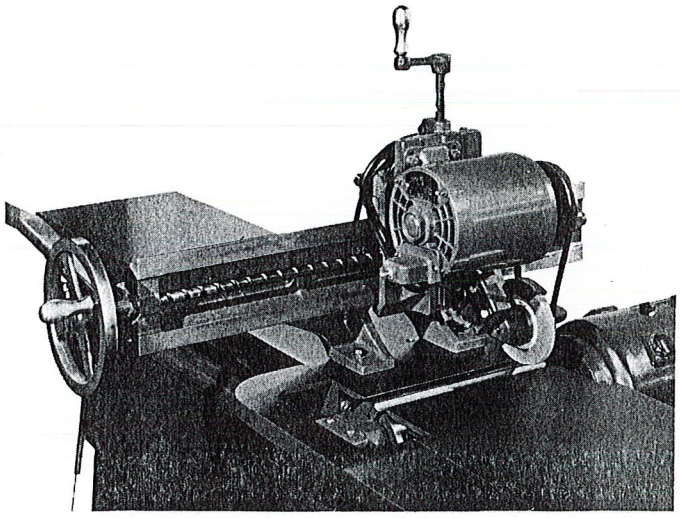
### RABBETING ATTACHMENT

This device is furnished with each machine. It can be easily removed at any time. As it presents a wide supporting surface for stock being rabbeted, it is preferred to the old style rabbeting groove in the receiving table.

### MOTOR DRIVE

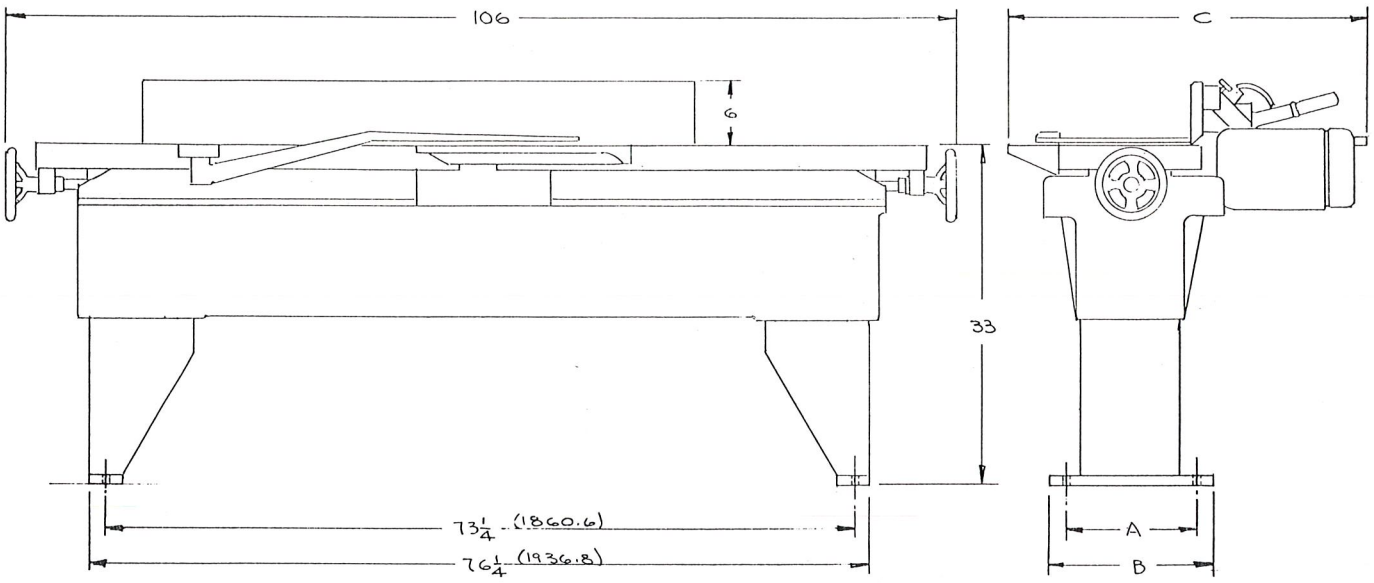
Two types of motor drive are available: Motor-on-arbor drive for polyphase A.C. motors, and V-belt motor drive. State the phase, cycles and voltage of your electric current and we will recommend the best motor drive for you.

## Motor Knife Grinding and Jointing Attachment



In the picture above, the bar is located accurately by the two tapped holes. The cutterhead or cylinder is located by the dowel pin. The motor bracket is clamped to the slide block by a hand knob, and the slide block is actuated by the crank shown at the left end. The cylinder remains stationary while the grinding wheel is fed taking a light cut. The next knife is brought in place by pulling out the dowel pin and rotating the cylinder by hand.

# FLOOR PLAN




| MACHINE Nº | 166-B | 166-C | 166-D | 166-E | 166-F |
|---|---|---|---|---|---|
| SIZE | 12 | 16 | 20 | 24 | 30 |
| A | 16 (406.4) | 20 (508) | 20 (508) | 28 (711.2) | 28 (711.2) |
| B | 18 (457.2) | 22 (558.8) | 22 (558.8) | 30 (762) | 30 (762) |
| C | 33 (838.2) | 39 (990.6) | 43 (1092.2) | 47 (1193.8) | 53 (1346.2) |

## SPECIFICATIONS

### CAPACITIES

5 Jointers plane these widths:

| | |
|---|---|
| No. 166-BD — 12 inches | 2000 lbs. |
| No. 166-CD — 16 inches | 2175 lbs. |
| No. 166-DD — 20 inches | 2450 lbs. |
| No. 166-ED — 24 inches | 2600 lbs. |
| No. 166-FD — 30 inches | 3200 lbs. |

### WEIGHTS

### RABBETING CAPACITY

¾" on 12", 16", 20" machines.
½" on 24", 30" machines.

### TABLES

Infeed and outfeed, each 48" long.
¾" vertical adjustment.
18" pull away from cylinder.

### CYLINDER

3-knife Safety-type.
5" cutting diameter.
3600 RPM on standard machine.
Cylinder holding pin.

### MOTORS

12", 16", 20", 24" Machines have 5 HP Motors Standard.
30" Machine has 7½ HP Standard Motor.
Optional Motors are 7½ and 10 HP.

(Specifications are subject to change without notice.)

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