



No. 2416-36" (915 mm) BAND SAW



# OLIVER

OLIVER MACHINERY COMPANY, GRAND RAPIDS, MICH. 49504



# FOR CUTTING WOOD, METALS, PLASTICS, THE OLIVER NO. 24

The Oliver No. 2416 Band Saw is favorably recognized by users for its fine design and engineering. It merits this recognition with its clean-cut rigid design, construction, finish and efficiency — the most serviceable 36-inch Band Saw made. We encourage careful examination of its details which include many essential points of advantage found only in Oliver Band Saws for cutting wood, sheet metal, aluminum, brass, plastics, etc.

## FRAME

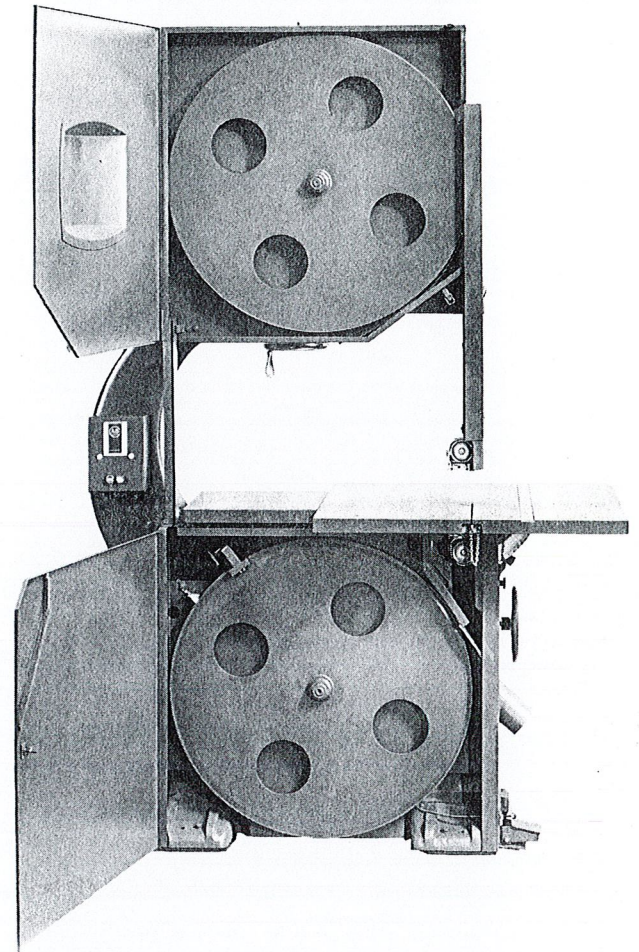
The frame of the Band Saw is a one-piece casting in the cored form — strong, durable, and free from vibration at any speed. The bottom is machined straight, and all parts are finished square to the bottom, assuring perfect and permanent alignment. Provision for dust connection is made at the front of the frame.

## WHEEL SHAFT AND BEARINGS

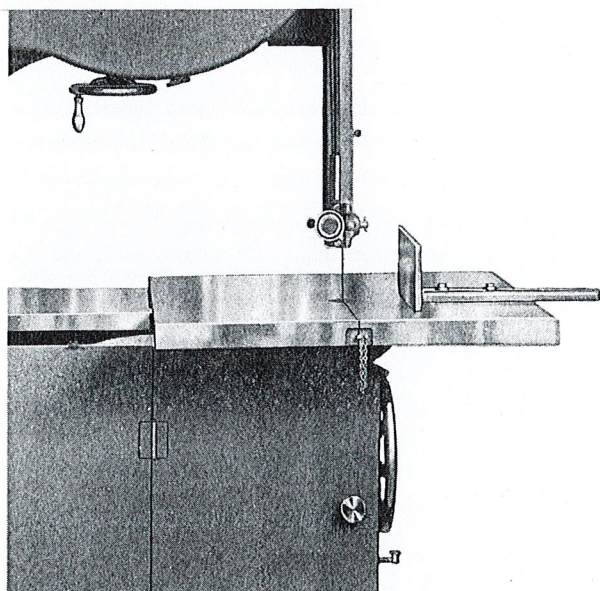
The upper wheel shaft is  $1\frac{1}{8}$  inches diameter, 16 inches long. The lower wheel shaft is the motor shaft. Both shafts have No. 4 Morse Tapers to which the wheels are mounted. Both wheels run in lubricated-for-life bearings.

## MOTOR DRIVES

We can furnish either direct motor drive or belted



View with doors open showing one-piece cast iron wheels. Note caliper type brake on lower wheel.



A No. 138 Ripping Fence is available for mounting on the table to guide stock for straight cuts.

drive. Where direct current or 25 cycle motors are used, we recommend the No. 2416-A belted drive which supports the motor on a bracket bolted to the frame. It is fitted with metal belt guard, V-belts and pivoted motor base adjustable for belt tension.

When 3 phase alternating current motors can be used, we recommend our ball bearing, totally enclosed motor drive, giving the most efficient self-contained motor drive ever developed.

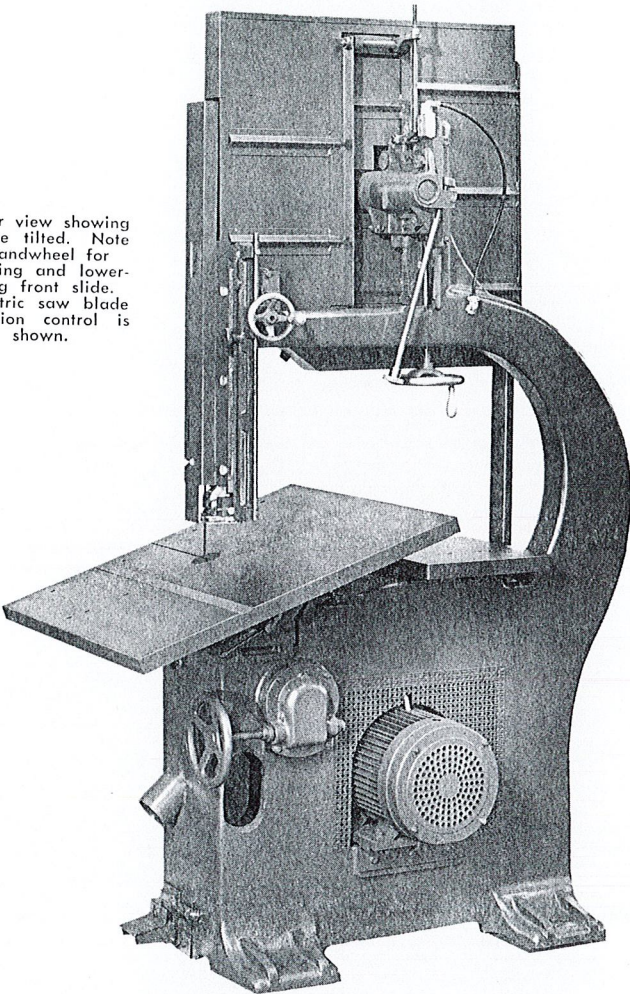
## LEFT HAND AND RIGHT HAND BAND SAWS

This combination is ideal for pattern shops or factories having large patterns or work which would normally interfere with the column or neck of the machine, or the upper guard unit. With the combination of right hand and left hand machines the scope of band sawing is unlimited. Many shops use this combination to advantage.



# 3 BAND SAW IS THE FINEST MADE!

Rear view showing table tilted. Note handwheel for raising and lowering front slide. Electric saw blade tension control is also shown.



against the inside of the rim of the upper wheel and promptly stops the wheel. This prevents coiling of the broken blade around the wheel or throwing the broken upper end of the blade against the table. It assures maximum safety to the operator and saves the table.

### GUIDE POST

The post is a one-piece casting. It carries the upper guide and also serves as a guard for the face of the upper wheel and saw blade directly above the guide. The post is adjusted up and down by a handwheel-operated screw and nut and is fitted with a small glass window to assist the operator in tracking the blade properly on the wheel. The guide post can be locked in various positions.

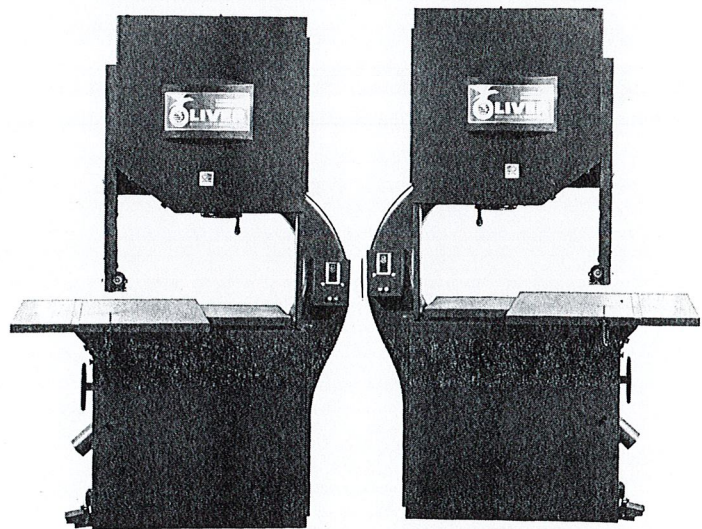
### TABLE

The cast iron table measures 36 x 36 inches, 40 inches high, made exceptionally deep, cross-ribbed for strength and fitted with double rib around the edge to assure rigidity and provide a good hold for form clamps. The table is mounted on two machined rockers and rocker seats having a tongue and groove fitting. Table tilts 45 degrees to the right and 5 degrees to left by a handwheel, worm and worm gear self-locking enclosed tilting

Each machine can be used for ordinary work. Any shop requiring two machines should seriously consider this highly productive combination of two band saws.

### BRAKES

Both wheels are provided with positive brakes for greater safety. On high-speed production Band Saws a handy foot lever within easy reach of the operator shuts off the electric current and applies a caliper brake on the rim of the lower wheel. It gently but quickly stops the wheels a few seconds after the power is shut off, saving operator's time while changing saw blades. The brake for the upper wheel is fully automatic. It is normally kept released by the same mechanism that applies tension to the saw blade, and the instant the pressure is released for any reason (either by the saw breaking or by running off the wheel) the brake shoe is automatically applied



In the above illustration is a left hand band saw on the left of a conventional right hand machine.



device having index and pointer to automatically register the tilt. Auxiliary table, 18½ x 17 inches, is finished and securely mounted in alignment with the main table when horizontal.

#### ELECTRIC CONTROL

A magnetic control switch with overload and under-voltage protection is mounted on the column at the left of the operator and wired to the motor, ready for use.

#### SAW TENSION UNIT

Proper tension on the saw blade is accomplished by means of an electric tension device. This unit consists of a tension arm and micro switch which permits operation of the machine only when the proper tension is applied to the blade. This type of unit prevents blade breakage and damage to wheel tires caused by over-tension.

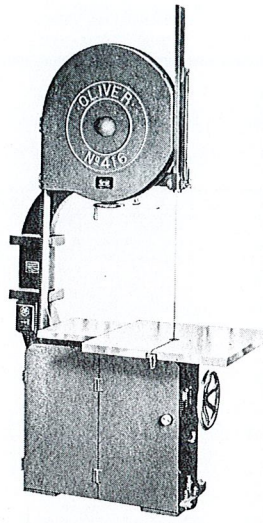
#### GUIDES

Ball bearing micro-precision guides are furnished above and below the table.

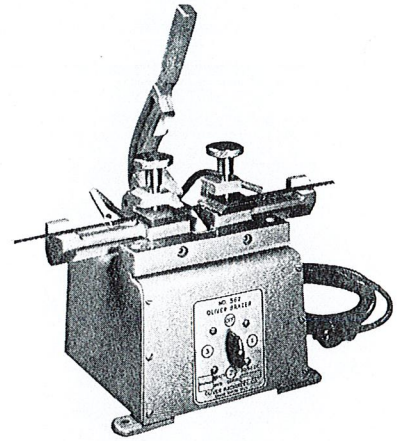
#### SAFETY GUARDS AND DOORS

The saw blade is completely guarded except for that part actually cutting.

Both upper and lower wheels are enclosed by steel guards and doors.



Oliver No. 2416-DH Band Saw with column height increased 13 inches to give 36 inches under the guide.



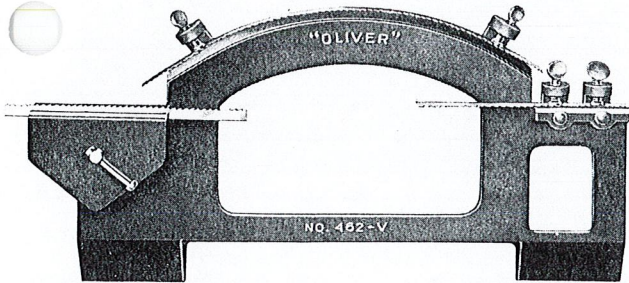
#### CAPACITIES — 562 BRAZER

Width — Up to 1½" (3.81 cm)

Voltage — 110

Cycles — 50 or 60

Boxed Wt. — 70 lbs. (1½ Cu. ft.)



#### NO. 462-V BAND SAW BRAZE DRESSING VISE

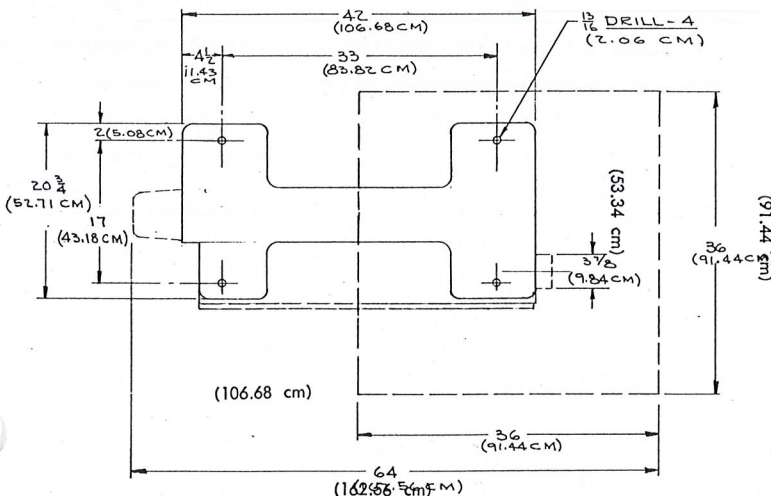
Weight — 35 pounds

Length overall — 22 inches (55.88 cm)

Height — 12 inches (30.48 cm)

Saw Vise Length — 6 inches (15.24 cm)

(Specifications are subject to change without notice.)



#### SPECIFICATIONS

**Capacity** 24" (60.96 cm) under the guide. 35½" (90.17 cm) between saw blade and column. 20" (609.60 cm) blade length.

**Tables** 36" x 36" (91.44 x 91.44 cm) ribbed cast iron. Tilts 45° to right, 5° to left. 40" (101.60 cm) high from floor. Auxiliary table 18½" x 17" (46.99 x 43.18 cm).

**Motor** 5 H.P., 900 RPM regular. Motor on shaft type. 7½ H.P. is available. Lubricated for life bearings.

**Wheels** Solid cast iron disk type. 36" (91.44 cm) diameter, 1¾" (4.445 cm) face.

**Guides** Ball bearing Micro-precision.

**Shipping Weight:** 2750 lbs.

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