

No. 217 - 30" BAND SAW



OLIVER

OLIVER MACHINERY COMPANY, GRAND RAPIDS, MICH. 49504

FOR CUTTING WOOD, METALS, PLASTICS, THE OLIVER No. 21

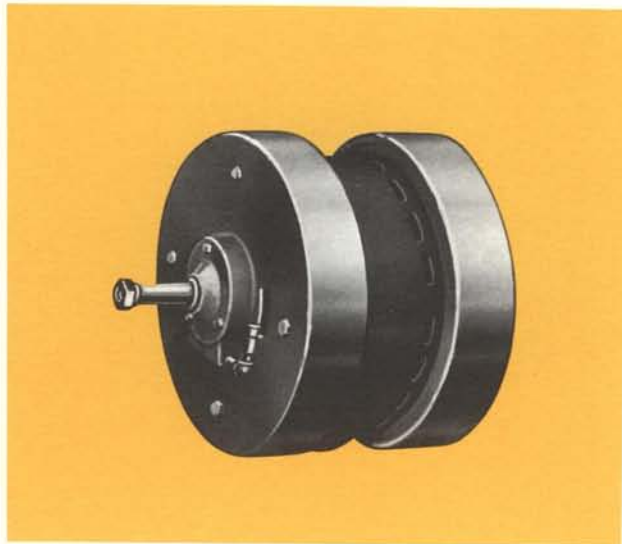
VARIOUS DRIVE ARRANGEMENTS

Three basic types of drive packages are available.

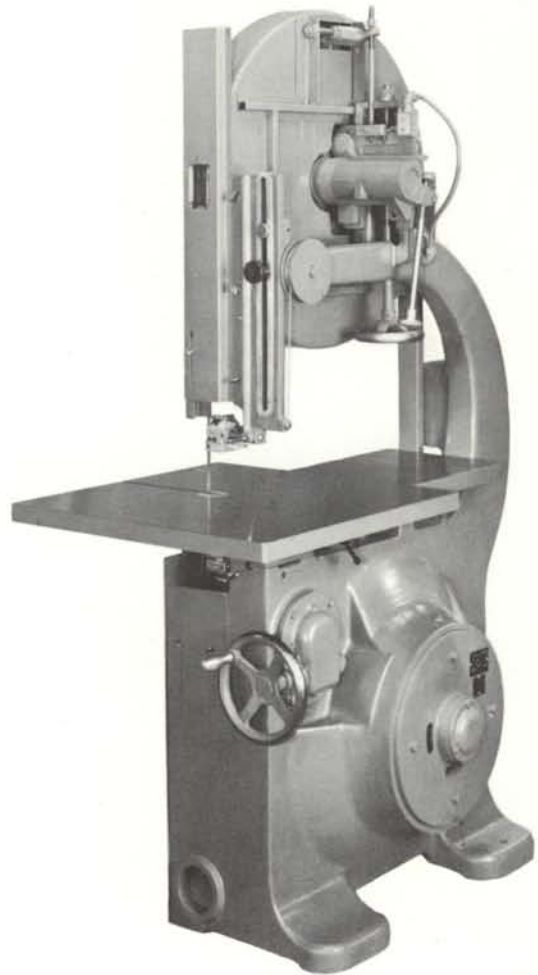
The standard machine is furnished with a motor on shaft drive completely enclosed in the column. Standard motor unit is a 3 HP 900 rpm motor, with 720 and 600 rpm — 3 HP also available.

When wheel speeds or electric current characteristics dictate, the 217-A belted drive machine is available with nearly any wheel speed obtainable through combination of motor and sheave sizes.

If variable speed is needed for a wide range of materials, we can furnish an appropriate package with the #217-S machine.



The motor-on-shaft unit is inserted in the finished round opening in the column, giving a compact, rigid, yet easily accessible direct motor drive.



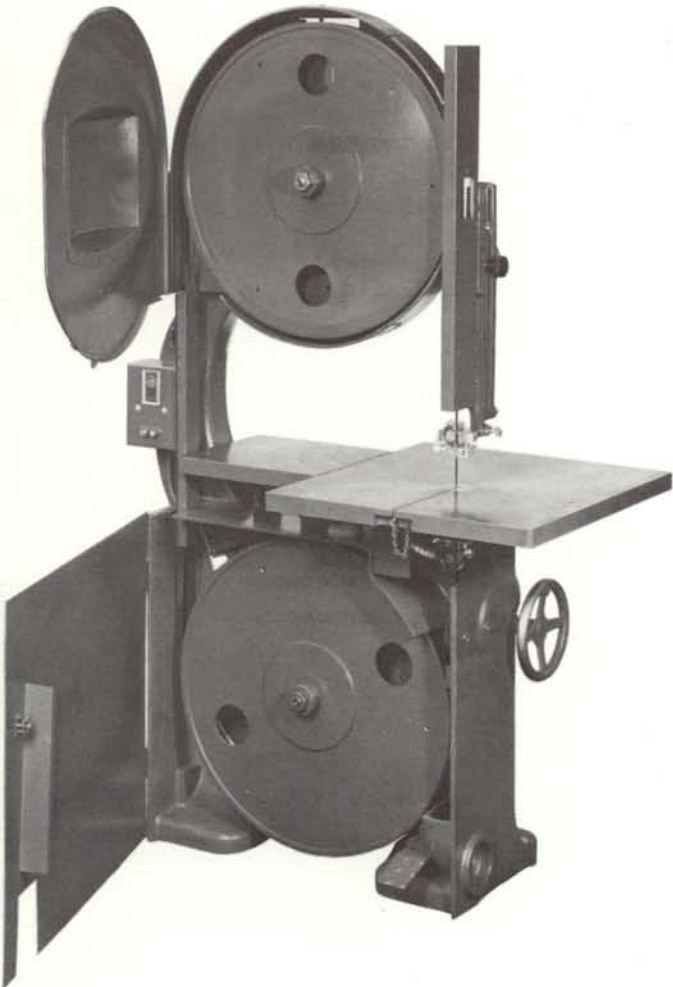
Rear View of No. 217D-30" Band Saw showing table-tilting unit, saw-tensioning unit and upper arbor detail.

RUGGED, DEPENDABLE DESIGN

The Oliver #217-30" Band Saw is designed for accuracy and dependability. The rugged frame is a one-piece, cored, dependable gray iron casting which is strong, durable and free from vibration at any wheel speed. Modern machining methods hold the accuracy of the alignment of the entire machine.

The wheel shafts are of special spindle steel, machine ground and tapered to receive the wheel hubs. Both upper and lower wheel shafts run in bearings lubricated for life.

BAND SAW IS THE FINEST MADE



View of 217-D showing wheel discs and internal dust controls.
Note rear sawguard.

BRAKES — UPPER AND LOWER

Both wheels are provided with brakes for greater safety. For the lower wheel a handy foot lever is provided within easy reach of the operator. This unit shuts off the electric power and applies a contoured brake shoe to the lower wheel.

The upper wheel is provided with a fully automatic brake which is actuated by a signal from the automatic tension control.

AUTOMATIC TENSION CONTROL

The saw tension is accurately maintained by the automatic tension control unit. If the tension on the saw blade is too great or too little, the electric control prevents the saw motor from running. If the saw blade breaks, the tension unit actuates the automatic upper wheel brake and the upper wheel stops rapidly. This is a major safety feature as it 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 counterbalanced by an encased coil spring, and is fitted with a small glass window to assist the operator in tracking the blade properly on the wheel. The guide post is adjustable vertically and can be locked in various positions.

TABLE

The cast iron table measures 26" x 28", 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 seat having a tongue and groove fitting. Table tilts 45° to the right by a hand-wheel, worm and worm gear self-locking enclosed tilting device having index and pointer to automatically register the tilt. Auxiliary table is finished and securely mounted in alignment with the main table when horizontal.

ELECTRICAL 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.

HAND RIPPING FENCE FOR BAND SAWS — Optional

As it is frequently required that our various sizes of Band Saws be fitted with a hand ripping fence, we have designed one that may be applied to the table of any size Oliver Band Saw.

GUIDES

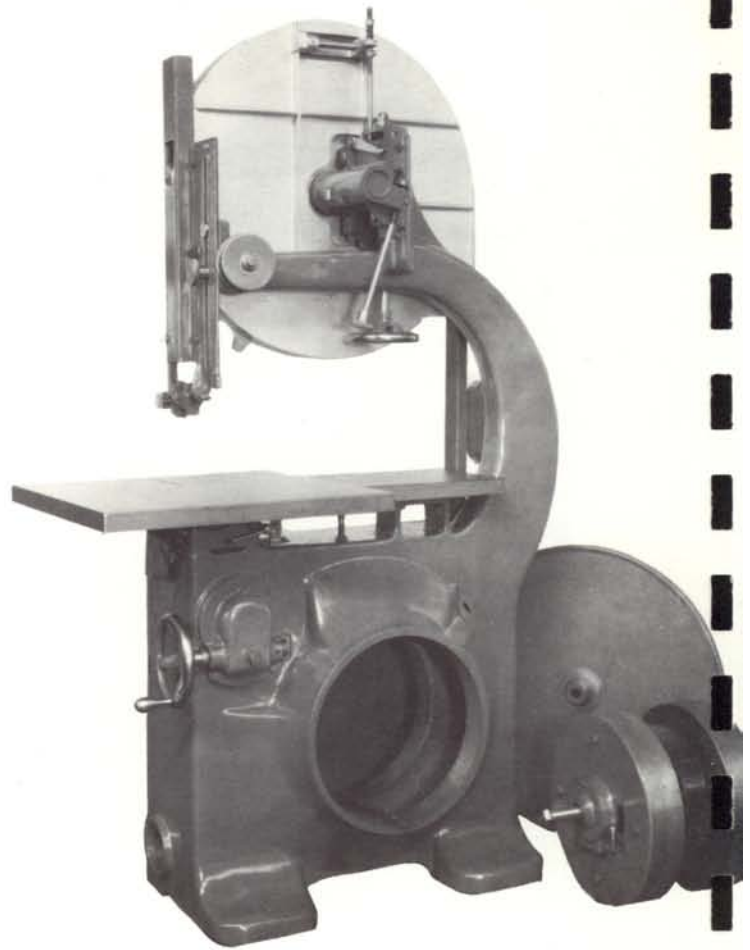
Ball bearing micro-precision guides are furnished above and below the table.

Support blocks or jaws are made of oilite bearing metal.

SAFETY GUARDS AND DOORS

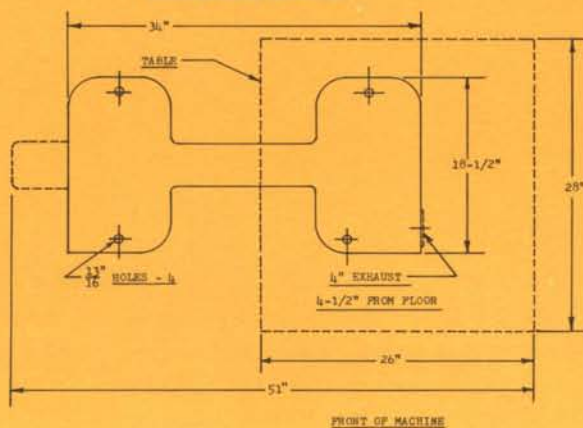
The saw blade is completely guarded except for that part actually cutting.

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



217-D Band Saw Assembly showing column, motor unit, and wheel ready for final assembly.

ALL DIMENSIONS ARE APPROXIMATE
SOLID LINE - FLOOR CONTACT AREA
DOTTED LINE - PROJECTED AREA



SPECIFICATIONS

Capacity 15" under the guide. 29 1/2" between saw blade and column. 16'-0" blade length.

Tables 26" x 28" ribbed cast iron. Tilts 45° to right, Auxiliary table 14" x 16". Height 38".

Motor 3 H.P., 900 RPM regular. Motor on shaft type. 720 and 600 RPM available. Lubricated for life bearings.

Wheels. One piece. Cast aluminum wheels — 30" diameter.

Guides Ball bearing Micro-precision.

Shipping Weight: 1750 lbs.

As we are always improving and changing our machinery for more efficient operation and improved safety — specifications are subject to change without notice.

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