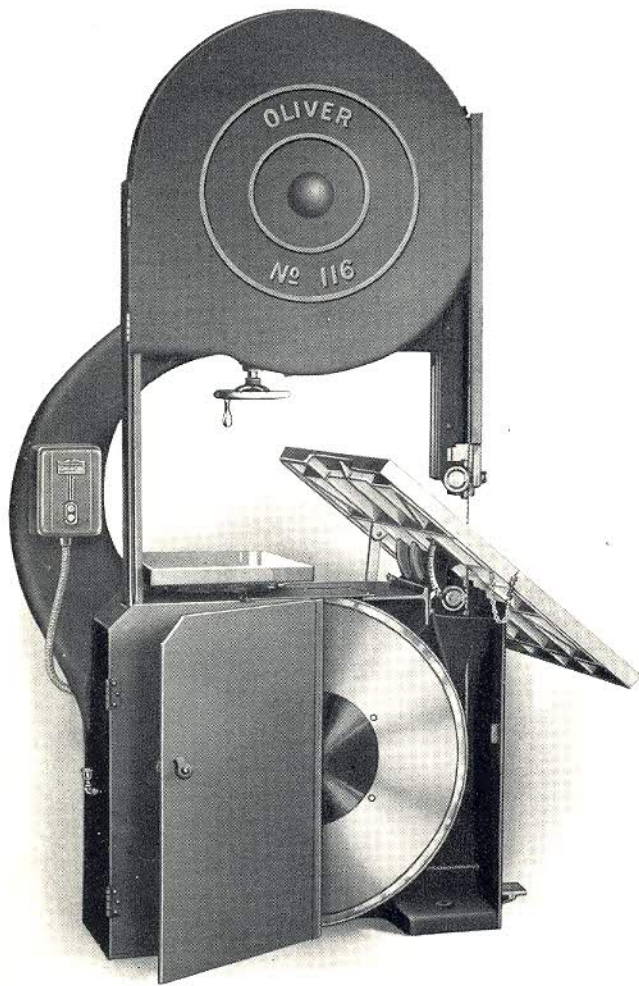




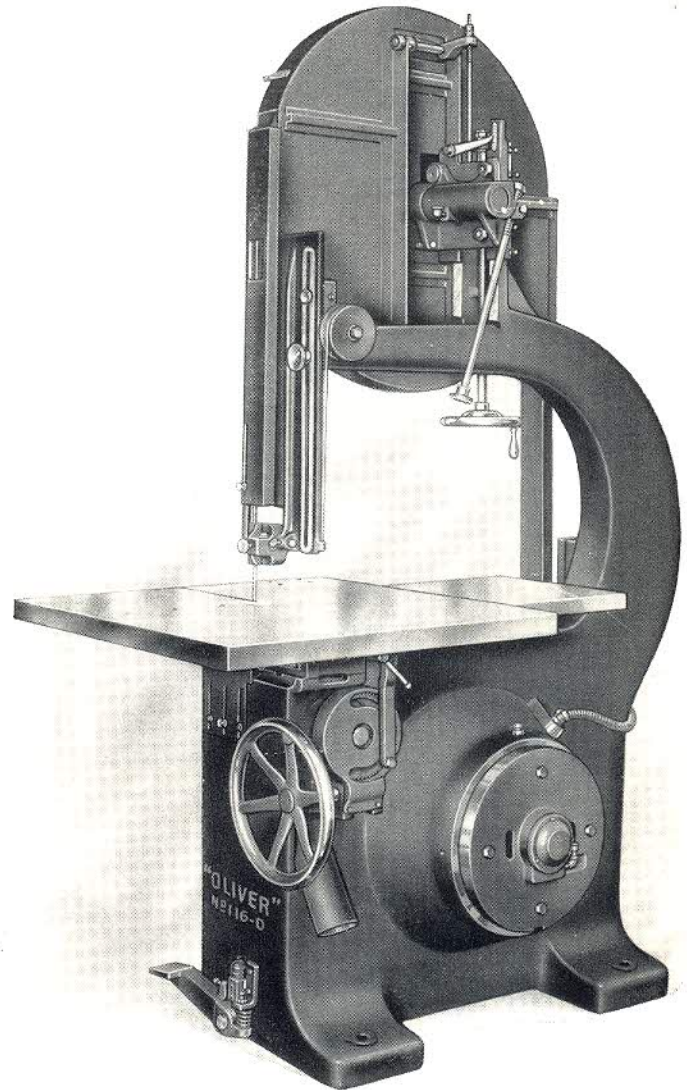
"Every User
is a Booster"

"Oliver" No. 116 Band Sawing Machine

36-Inch Wheels, Ball Bearing
For Cutting Wood or Metal



Front view showing new folding door, double rocker, large tilting table, exhaust hood, also brake lever, foot pressure on which shuts off the power and stops the wheels.



NO. 116-D "OLIVER" MOTOR-ON-SHAFT BAND SAW.
Rear View showing the motor unit inserted in the circular finished opening in the column; also showing circular exhaust pipe connection.

THE ELECTRICAL PART OF EVERY MOTOR USED WITH "OLIVER" BAND SAWS, THAT IS, THE ROTAR AND THE STATOR, ARE ABSOLUTELY STANDARD PARTS MANUFACTURED BY LEADING MOTOR MANUFACTURERS.

Manufactured by
Oliver Machinery Company
Grand Rapids, Michigan, U. S. A.

BRANCH SALES OFFICES:
New York, Pittsburgh, Atlanta, Cleveland, Detroit, Indianapolis,
Chicago, St. Louis, Minneapolis, Denver, Salt Lake City, Seattle,
Portland, San Francisco, Los Angeles.

Quality

The "Oliver" No. 116 Band Saw is the pride of our organization and justly deserves this recognition because of its clean-cut rigid design, construction, finish and efficiency, the most serviceable 36-inch Band Saw obtainable. We invite careful scrutiny of its details, which have many essential points of advantage found only in "Oliver" Band Saws, either for wood, sheet metal, aluminum, brass, etc.

Capacity

Height of cut under guide, 22"; swings 35½" between saw and

column; takes saws 18' 4" to 19' 6" long, up to 2" wide; table is 36" square and tilts 45 degrees to the right and 5 degrees to the left. Speed up to 1200 r.p.m. if desired; but standard is 720 r.p.m. This machine has frequently been adapted for special cutting requirements, to operate at exceptionally slow speeds—as low as 13 r.p.m. Such motor drives require engineering in which our experience is of real value.

Frame

The frame 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 other parts are finished square to

the bottom, assuring perfect permanent alignment. Provision for blower connections is made directly back of the hand wheel that tilts the table. The base is 42" long, 21" wide, 7' high.

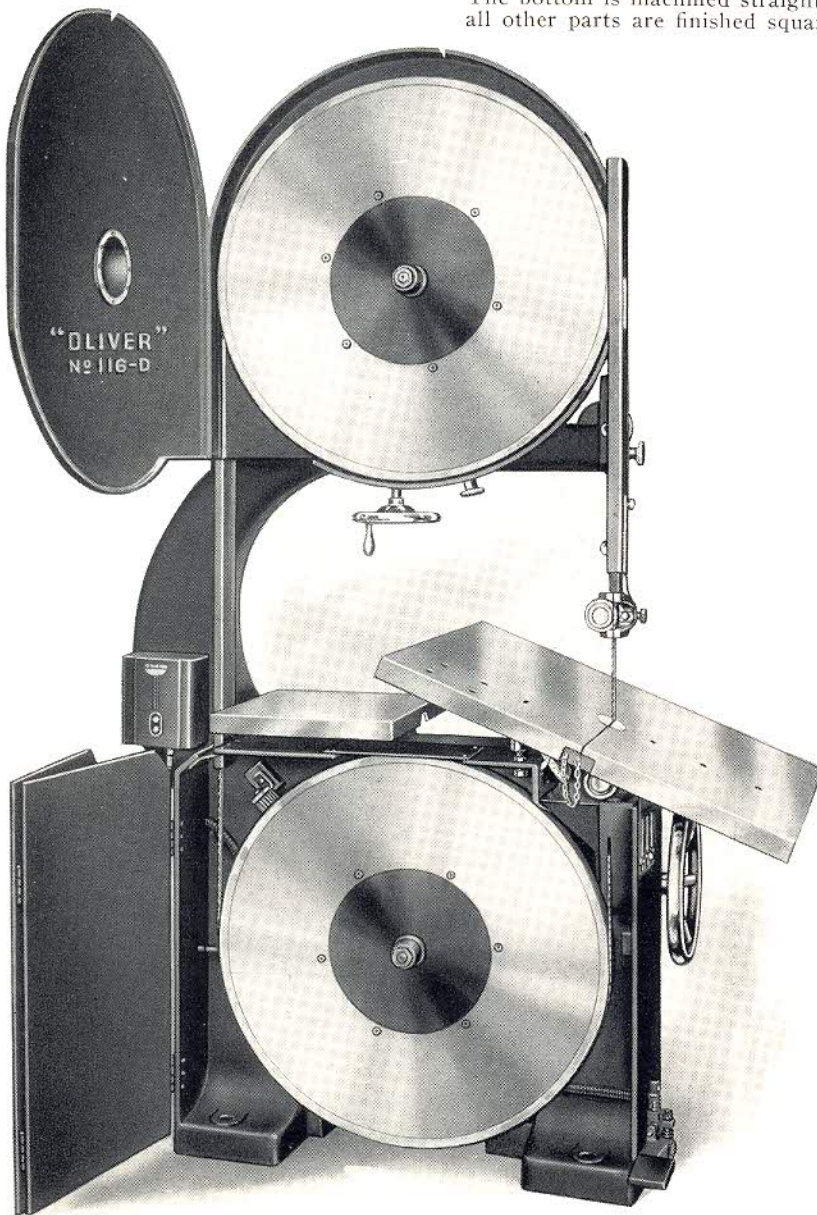
Wheel Shafts and Bearings

Made of Special Spindle Steel, machine ground, tapered to receive the wheel hubs. Upper wheel shaft is 1½" diameter, 16" long. Lower wheel shaft is 2½" diameter, 23" long. Both shafts run in anti-friction oil lubricated ball bearings, assuring permanent alignment and long life.

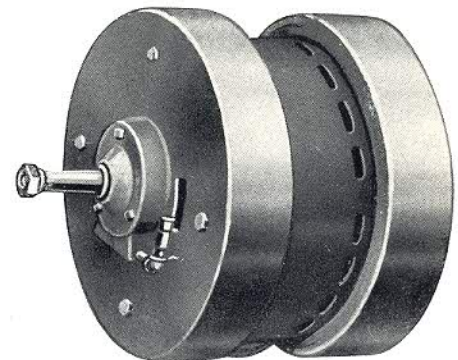
Motor Drives

We can furnish any type of motor drive desired—belted, geared, silent chain motor hung at the rear, or our newly created, fully enclosed, built-in "Motor-on-Shaft" drive. When 1500 or 1800 r.p.m. motors are used, we recommend the "Attached Belted Drive" which supports the motor on a self-contained bracket bolted to the frame on a finished square pad and fitted with sheet metal belt guard, V-Belts and slide base with screw take-up for belt stretch.

When 600, 720 or 900 r.p.m., 2 or 3 phase Alternating Current motors can be used, we very strongly recommend our newly created, ball bearing, fully enclosed, "Motor-on-Shaft" drive, wherein the motor is built-in directly on the lower wheel shaft, as a unit, giving the most efficient, enclosed, silent, practical, durable, and self-contained motor drive possible.



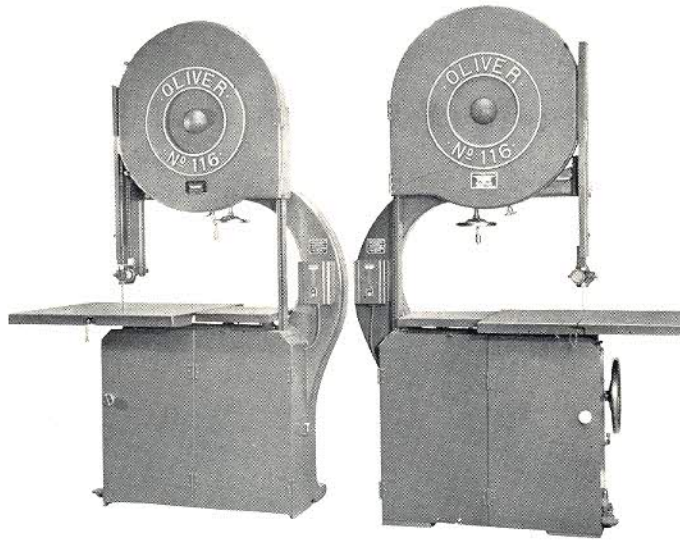
"OLIVER" NO. 116—36-INCH HIGH PRODUCTION BAND SAW.
Note the demountable disk wheels—something new!



"OLIVER" MOTOR-ON-SHAFT UNIT.
This unit as a whole is inserted in the finished round opening in the column, giving a very compact, rigid, yet easily accessible direct motor drive.

Unit Construction

The unit system of construction is used in this machine. All major parts are interchangeable. The built-in "Motor-on-Shaft" Unit as well as the belt driven lower spindle unit are located in a finished circular hole in the base, tightly fitting and locked in place when in use, yet they may be readily removed as a whole and exchanged for a new unit should it ever be necessary.

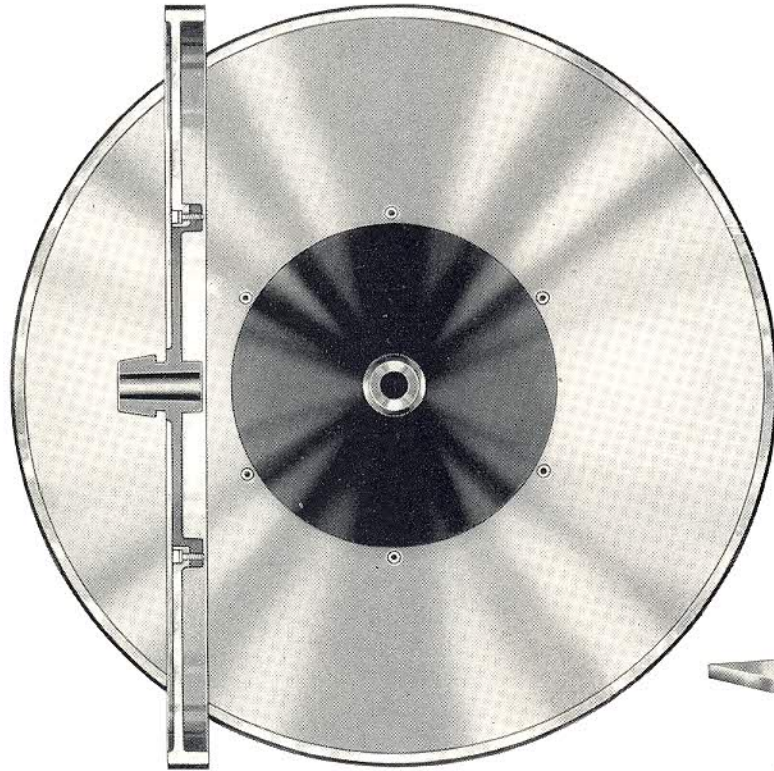


Left Hand and Right Hand Band Saws

The picture at the left shows a left hand band saw at the left of the conventional right hand machine. 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 right hand and left hand machines the scope of band sawing is unlimited. Many shops use this combination to advantage. Each machine can be used for ordinary work. Any shop requiring two machines should seriously consider this valuable combination.

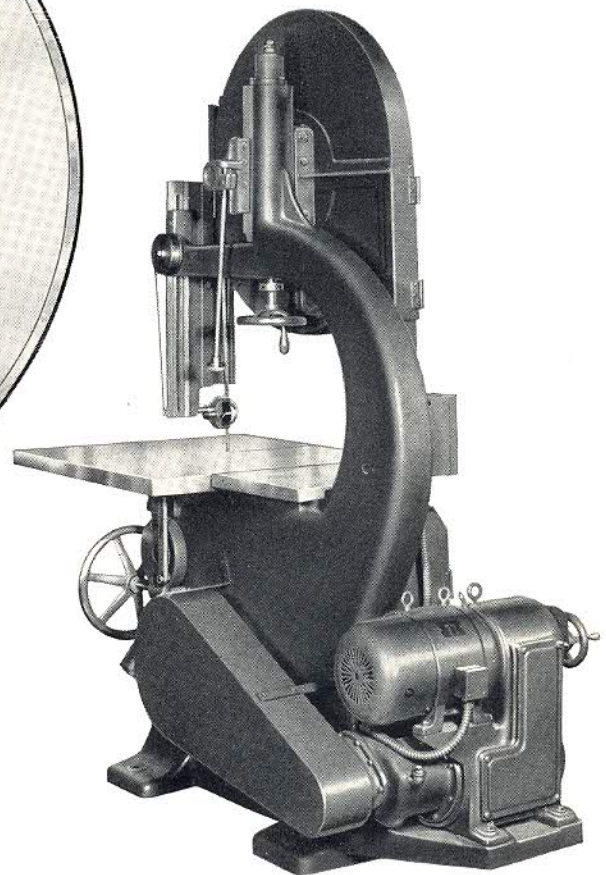
Adjustment

The lower wheel has a positive non-changing alignment with the frame of the machine. The upper wheel has a very simple 9" vertical screw adjustment fitted with helical springs for saw tension. An indicator finger and comparative scale shows tension on saw in a sensitive and positive manner. Upper wheel also has the exceedingly delicate micrometer screw tilting device for tracking the saw on the wheel. All adjustments are controlled by handwheels conveniently located to operator.



Wheels

The "Oliver" demountable Ring-Disk Wheel, illustrated here, is the lightest weight, yet the strongest and most rigid band saw wheel made. Scientifically balanced, it runs perfectly true, smoothly, without vibration at highest speeds. The Hub is 15 inches diameter, semi-steel, finished all over and perfectly balanced. The Ring-Disk consists of a one-piece aluminum alloy web and rim unit, finished all over, dynamically balanced and fastened to the hub by six hollow head, flush cap screws, producing a very rigid and smooth running wheel. The tire consists of a live rubber, form moulded band, securely fastened to the rim by tension and by "Oliver" Bando-cement; after which it is ground true, providing a durable, even and smooth tread for the band saw blade.



Special slow-running, adjustable speed "Oliver" 36-inch Band Saw for special metal cutting — special quotations to suit the job. Write us.

OLIVER MACHINERY COMPANY  **GRAND RAPIDS, MICHIGAN, U.S.A.**

NO. 116 "OLIVER" BAND SAWING MACHINE—36-INCH WHEELS

Brake

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 formed brake shoe on the inside of the rim near the floor, and gently but quickly stops the wheels a few seconds after the power is shut off, thus saving operator's time while changing saws. The brake for the upper wheel is fully automatic; it is located near the top of the wheel at the rear. It is normally kept open 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 formed brake shoe is automatically applied against the inside of the rim of the upper wheel and promptly stops the wheel, thus preventing coiling of the broken blade around the wheel or throwing the broken upper end of the blade against the table, assuring maximum safety to the operator and saving the blade.

Guides and Post

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. Post is counterbalanced by an encased coil spring, and is fitted with a small glass window to assist operator in tracking the blade

properly on the wheel. Guide post is adjustable vertically and can be locked in various positions by means of a knurled hand knob. The guides are of the frictionless, ball bearing, self-lubricated roller type, one above and one below the table. The saw runs against the outer edge of a hardened wheel which revolves in enclosed ball bearings. Hardened steel slide guides or lips are adjustable and prevents turning of the saw sidewise.

Safety Guards and Doors

Blade runs in a fully enclosed, metal guard at back of machine, which has a narrow slot for inserting saw in same. Saw is guarded at front by the guide post, which forms a U shape around the saw, and also by the L shaped shuttle guard which covers the saw down to the work. Upper wheel is totally enclosed in steel housing, the front half acting on hinges and swinging out for access to wheel. Lower wheel is also totally enclosed and has a two-piece steel door at front swinging on hinges. Upper and lower doors are locked to frame by spring clasps. This is the most completely guarded Band Saw on the market, and all moving parts are covered except that part doing the sawing between the guide and table.

Table

The table is cast iron 36" x 36", 40" 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. 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 means of hand wheel worm and worm gear self-locking enclosed tilting device having index and pointer to automatically register the tilt. Auxiliary table is 18 1/2" x 17", finished and securely mounted in alignment with the main table when horizontal.

Rolling Table

An 18" wide by 28" deep rolling table can be furnished. Table travels 26" on right hand side of saw. Left hand table is 18" x 24" with built-in chute for trimmings.

Electrical Control

An enclosed push button switch with overload and undervoltage protection is mounted on the column at the left of the operator and wired to the motor, ready for use.

Floor Space

Maximum floor space, 30" x 50".

Horse Power

Five h.p. motor is regular.

Equipment

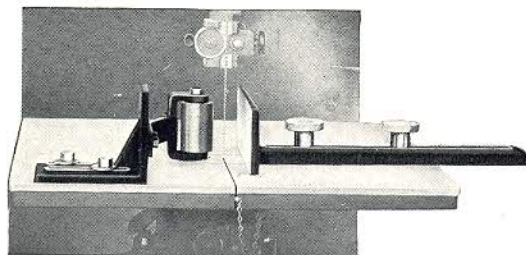
One saw blade 1/2" wide, and saw guards.

CODE, WEIGHT, ETC.

CODE	MACHINE DESCRIPTION	WEIGHT IN POUNDS CRATED	POUNDS BOXED	CUBIC FEET
Deludo	No. 116-D—Motor-on-Shaft Band Saw, right hand	2500	3200	124
Delude	No. 116-DL—Left Hand 36" Band Saw	2500	3200	124
Deluna	No. 116-A—ATTACHED BELTED MOTOR DRIVE, consisting of motor bracket, sliding top, belt, belt guard, mounting of motor, but no motor.			

EXTRAS

Delup	5 H.P. 600 R.P.M. in place of regular.
Demaj	3 H.P. 600 R.P.M. in place of regular.
Delot	Rolling table at right of saw 18" x 28" travels 26".
Delunb	1 1/2" wide slot in table with No. 2 cross-cut gauge.



**Hand Ripping Fences
for Band Saws**

As it is frequently required that our various sizes of Band Saws must be fitted with a hand ripping fence, we have designed one that may be applied to the table of any size built. This is now furnished as regular equipment on new machines.

CODE	MACHINE DESCRIPTION	BOXED WEIGHT	MEASURE IN CU. FT.
Demag	No. 139—Special Spring Roll Device for Hand Resawing	25	2