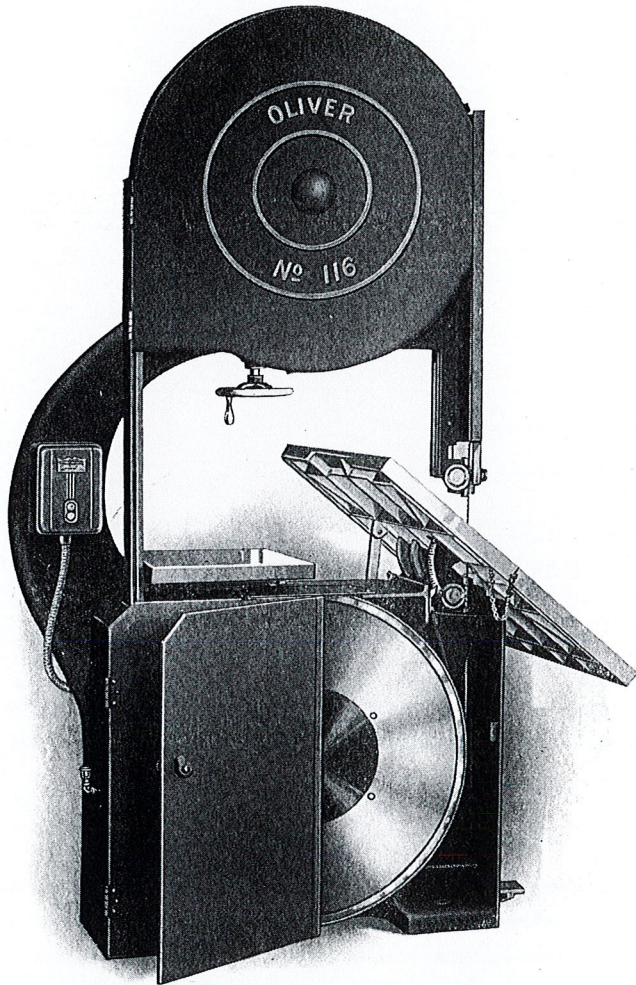




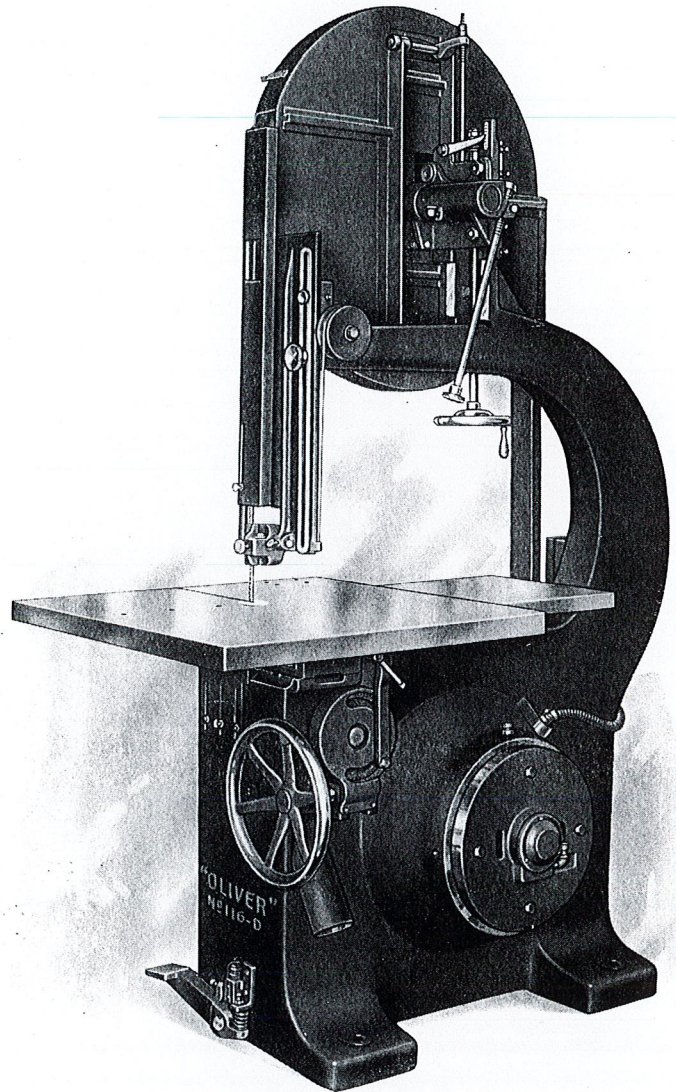
*"Every User
Is a Booster"*

"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 furnished opening in the column; also showing circular exhaust pipe connection.

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

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

BRANCH SALES OFFICES:
New York, Atlanta, Pittsburgh, Cleveland, Detroit, Chicago,
Indianapolis, 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" 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 1½" wide. Blades up to 2" wide may be used but require 2 No. 2 Saw Guides with No. 1 Guide Wheels. 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.

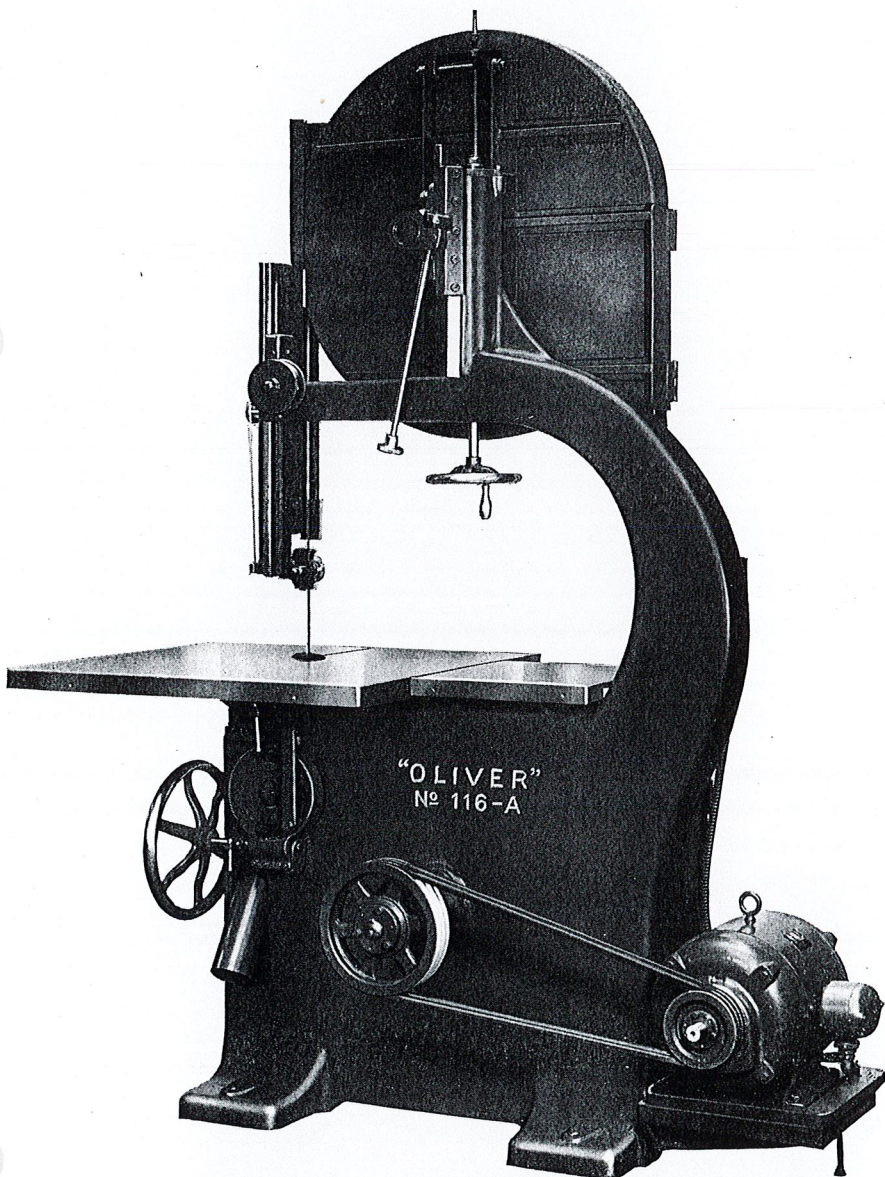
Wheel Shafts and Bearings

Made of Special Spindle Steel, machine ground, tapered to receive the wheel hubs. Upper wheel shaft is 1⅝" 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.

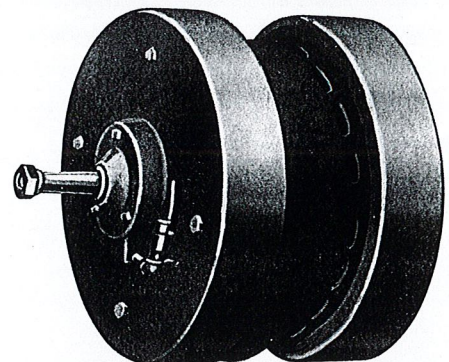
Motor Drives

We can furnish any type of motor drive desired—belted, chain, or our fully enclosed, built-in "Motor-on-Shaft" drive. Direct current or 25 cycle motors are used, we recommend the No. 116-A 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.

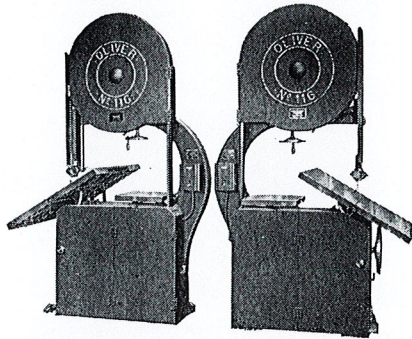
When 600, 720 or 900 r.p.m., 2 or 3 phase Alternating Current motors can be used, we recommend our ball bearing, fully enclosed, "Motor-on-Shaft" drive, giving the most efficient enclosed, and self-contained motor drive possible.



"OLIVER" NO. 116-A—36" V-BELT DRIVEN BAND SAW
5 H.P. Motor for Direct Current or 25 cycle drives. A belt guard is furnished as regular equipment.



"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.



Adjustments

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

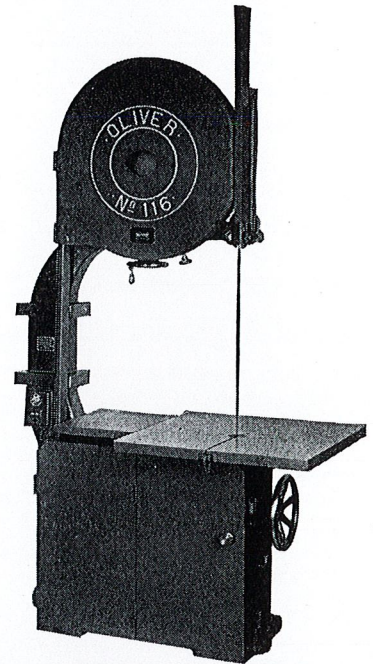
Rolling Table

It is sometimes found necessary and to great advantage that a rolling table be supplied. We can now build any 36" band saw accordingly. The rolling table measures 18" wide by 28" long and is made of semi-steel casting, well ribbed and highly machined.

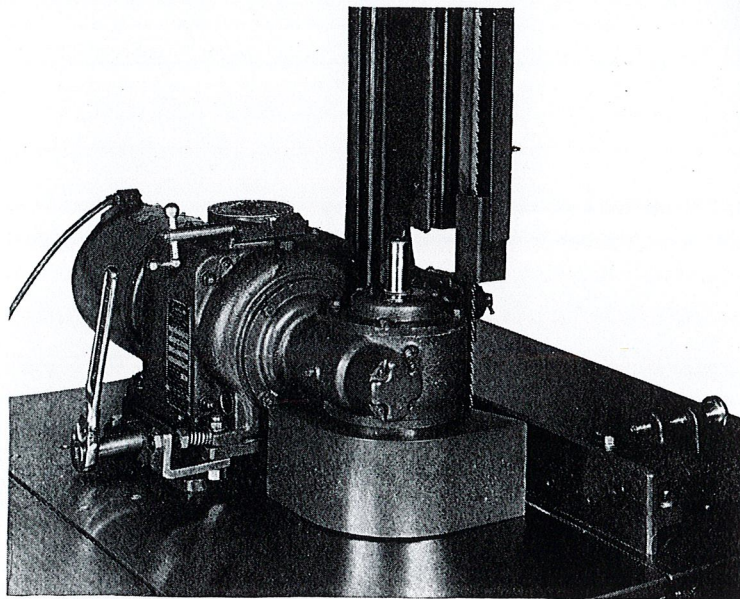
A bracket, mounted to the front of the base, supports a roller track which is 54½" long. This roller track contains two machined ways and a stop cast integral with the track. The ways receive ball bearing supported wheels that are mounted to the under side of the table. Self-contained stops keep the table from over-running. Also supplied is a stationary rear table, 18" x 24", containing a built-in shoot allowing the small scrap pieces to slide away.

Left Hand and Right Hand Band Saws

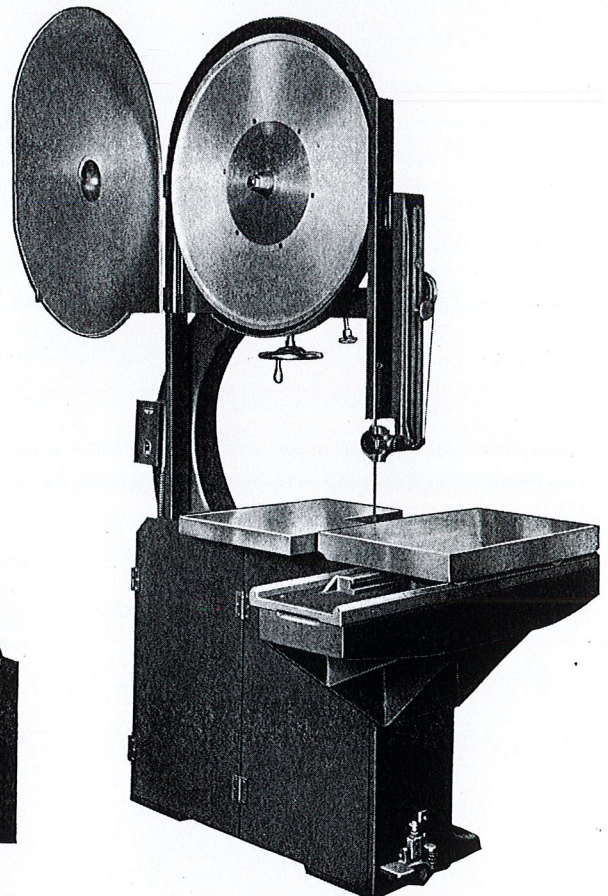
The picture at the left shows a left hand band saw at the left of the conventional right hand machine. This combination is ideal for pattern shops or factories having large patterns or work which would normally interfere with the column or neck of the machine, or the upper guard unit. With the combination 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.



NO. 116-DH BAND SAW with column height increased 13" to give 35" under the guide. Also available with 30" capacity under the guide.



"OLIVER" POWER FEEDING ATTACHMENT For 30" or larger band saws. Rate of feed 0 to 80 F.P.M. Micrometer Adjusting Fence. Motor ½ H.P. 3 phase or single phase current.



No. 116-D with 18" x 28" Rolling Table with travel of 24".

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 guide wheels are ball bearing, one above and one below the table. The saw

runs against the outer edge of a hardened wheel which revolves in enclosed ball bearings. Carbide jaws or lips are adjustable and prevents turning of the saw sidewise.

"Oliver" Carbide Jaws

A new designed jaw faced with carbide offers much longer jaw life, greater accuracy of work and less danger of blade breakage. The No. OC Carbide Jaws will fit the No. 0 and No. 1 Saw Guides, and are standard equipment on new machines.

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 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 18½" 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.

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.

Floor Space

Maximum floor space, 30" x 50".

Horse Power

Five h.p. motor is regular.

Equipment

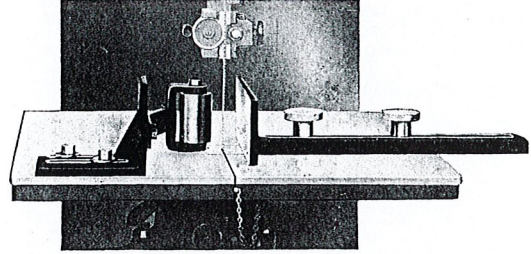
One saw blade ½" wide, saw guards, and No. 138 ripping fence.

CODE, WEIGHT, ETC.

CODE	MACHINE DESCRIPTION	WEIGHT IN POUNDS		CUBIC FEET
		CRATED	BOXED	
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	1½" 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. The fence 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