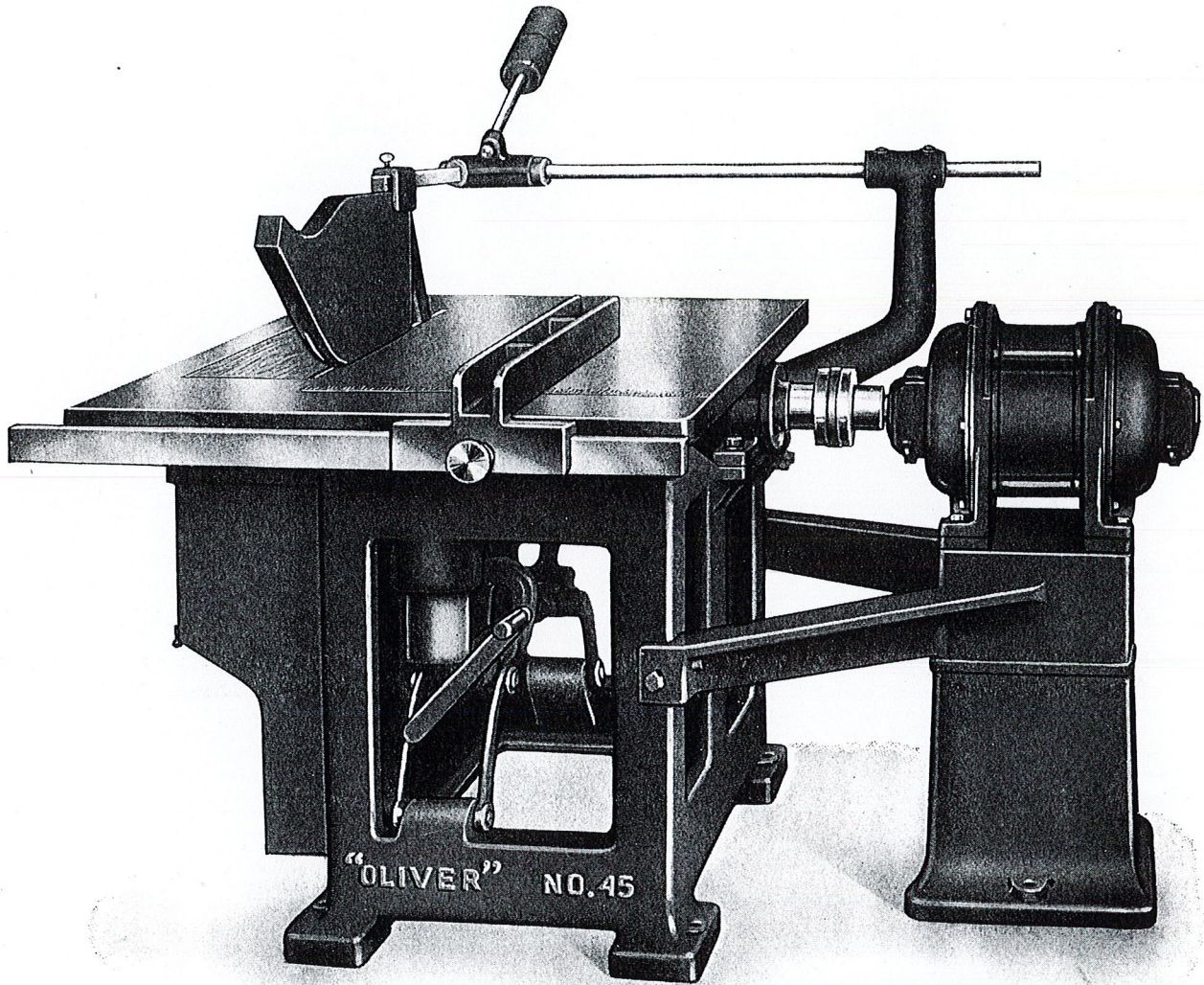




*"Every User  
Is a Booster"*

# "Oliver" No. 45 Hand-Feed Rip Saw

"A Very Powerful Machine"



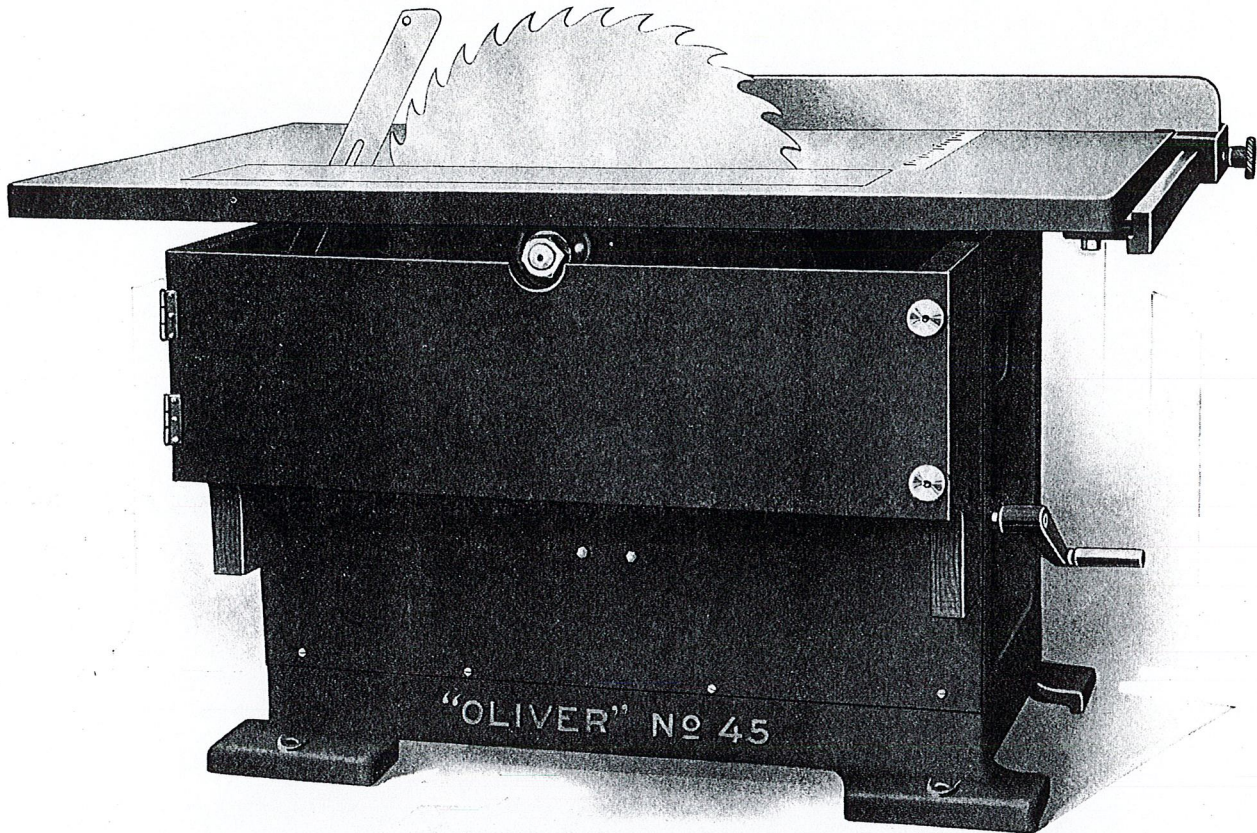
"Oliver" No. 45 Heavy Duty Rip Saw with 15 H.P., 1800 R.P.M. Motor Coupled to Ball Bearing Arbor with Capacity to Carry Saws up to 26-inch Diameter.

For Heavy Ripping This  
Machine Has No Equal

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

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





No. 45 "Oliver" Hand Feed Rip Saw

**I**T HAS not been our endeavor in this machine to produce a cheap rip saw but, rather, to sacrifice cheapness in the interests of safety, utility and quality. There are no rough, unfinished parts bolted together on this machine. Everything is finished as it should be. The heavy frame is cast in one piece and the table has been given a very powerful toggle joint movement for raising and lowering same.

The No. 45 Rip Saw may be driven by direct motor drive or by V-belt drive. This is used for 25 cycle and direct current drives when the occasion demands.

We recommend for very heavy sawing a 24-inch or 26-inch inserted tooth saw. A saw of this type has many things to recommend it. When heavy planks or timbers are being sawed, it frequently pinches the set out of the ordinary rip saw. This is avoided by the swaged teeth of the inserted tooth saw. With a

saw of this type, old planks and timbers that are sound but are left alone because you might run upon a nail, can be worked up because it isn't a very serious matter for a saw of this type to strike a nail. The teeth may usually be filed, or if too dull, new ones inserted. In our own shops we have used for years an inserted tooth rip saw and recommend them as a result of experience.

### Type

This machine has been designed especially for general utility purposes. Its adaptability for either light or heavy work is its main feature. It will be found invaluable in the shops of large industrial institutions where the requirements of a carpenter shop are to take care of every job that comes along whether it is a case of one-inch boards, planks or timbers.

### Capacity

Will take saws up to 26 inches diameter that will saw up to 9 inches in thickness. An 18-inch saw projects  $5\frac{1}{4}$  inches through the table. Will rip  $21\frac{1}{2}$  inches wide with saw next to rigid collar, and  $26\frac{1}{2}$  inches wide with saw next to loose collar.

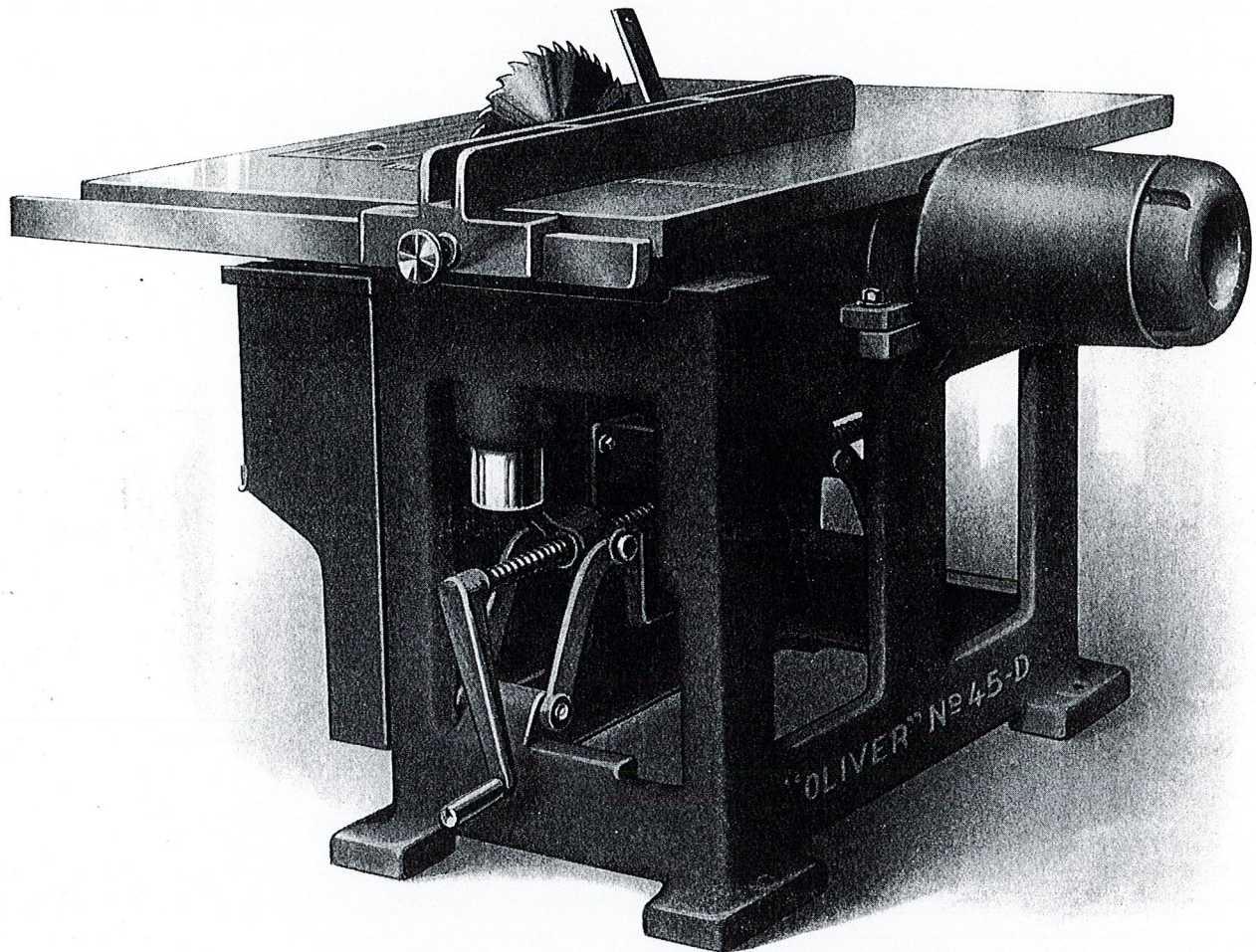
### Table Mounting

It is mounted on two cylindrical guides, vertically adjusted by a toggle joint operated by a screw. It has a removable plate at the saw.

### Saw Arbor

It is of crucible steel, large diameter to avoid deflection under heaviest loads, machine ground and runs in Ball Bearings. Where saw is applied the arbor is extended 6 inches so it can rip extra widths or do gang ripping up to 6 inches wide. It is provided with filling collars.





"Oliver" No. 45-D Motor-On-Arbor Hand Feed Rip Saw with 10 H.P., 3600 R.P.M. Motor to carry Saws up to 20-inch Diameter.

## Fence

This is made of semi-steel, held parallel to the saw. Can be instantly set to graduation on table and locked in position.

## Guards

The splitter guard shown in the rear of the saw, and the hinged guard fastened to the front of the frame of the saw, are included in the price of the machine. If No. 46-A Saw Guard is wanted as illustrated back of this page, same is furnished at slight additional cost.

## Motor Drive

Where saws up to but not exceeding 20 inches in diameter are to be used, we recommend mounting of

a 10 h.p., three phase, 60 cycle, 220 or 440 volt, 3600 r.p.m. motor directly on the arbor, as shown in the photograph of No. 45-D. When 24-inch or 26-inch diameter saws are to be used, the coupled motor drive is recommended, with 15 h.p. motor with speed not exceeding 1800 r.p.m. Direct Current drive can be mounted with coupling motor arrangement in some cases. When furnished with Coupled Drive, a 24-inch saw instead of 18-inch saw is regular equipment.

## Equipment

It consists of one 18-inch diameter rip saw, one double faced ripping fence, Type G; adjustable splitter guard back of saw, removable saw guard under the table and filling collars for saw end of arbor.

## Automatic Saw Guard

Either a self-contained guard as illustrated on the first page of this circular or one on a tripod as shown on last page can be furnished.

The location of the tripod is optional on account of the length of shaft going through the body. The location of the guard which fits over the saw is optional with the operator, as shaft over which it slides is square, allowing the wooden guard to be located in the precise spot above the saw to suit the operator. The shaft upon which is hung the saw guard and counter balance, is provided with collars, between which are placed friction washers, regulated by a nut on the end. This allows the guard to be set at any positive height from the table and





held securely in this one position, or by loosening the nut and adjusting the counter balance, the guard

may revert to the table itself after every piece has been passed beneath it. These various adjustments make the guard almost universal in its application, and one that will readily suit the ideas of the individual operator.

**Splitter Guard**

In connection with this guard, a splitter is shown in the illustration, which follows closely the rear of the saw, being thinner than the blade itself, and this is a point of safety that does not want to be

overlooked. Probably more accidents occur from the operator getting his fingers cut off on the back of the saw than on the front. Strange as it may seem, accidents usually occur after the piece has been put through the saw and in the attempt to bring it back, either the piece itself or the hand comes in contact with the back of the saw as a result of carrying both the piece and the operator's hand with great rapidity in the same direction as the saw is revolving. This guard and splitter make the "Oliver" saw about as near "fool-proof" as possible.

**GENERAL DIMENSIONS**

**Frame**

Base is 25 x 46 inches.

**Table**

35 1/2 x 56 inches. Cylindrical guides 4 inches diameter, 15 inches long. Vertical adjustment 5 1/2 inches.

**Saw Arbor**

3 1/8 inches diameter between bearings, 1 3/8 inches diameter for saw. Speeds, 3600 r.p.m. for 18 inch saw, 1800 r.p.m. for 24 inch saw.

**Fence**

Length, 36 inches; height, 3 inches; adjustment for width of cut, 26 1/2 inches.

**Horsepower**

From 10 to 15 for production conditions.

**CODE, WEIGHT, ETC.**

CODE	MACHINE DESCRIPTION	WEIGHT IN POUNDS		CUBIC FEET
		CRATED	BOXED	
Dancid	No. 45-D Motor-on-Arbor Rip Saw, with 10 h. p., 3 phase, 60 cycle, 220 or 440 volt, 3600 r.p.m. Motor directly on arbor — Push Button Magnetic Control and 18-inch saw.....	2000	2400	103

**DEDUCTIONS**

Dappom	Plain Belt Drive with pulley on arbor but no countershaft.....	1700	2170	88
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**EXTRAS**

Dappot	Ball Bearing Countershaft.....	250	300	....
Daram	No. 45-C Coupled Motor Drive, consisting of motor bracket bolted to base of machine, flexible coupling connected to motor and 24-inch saw, including 15 H.P. T.E.F.C. motor and control.....	.....	.....	....
Dango	No. 46-A — Full Automatic Saw Guard, complete with arm bolted to base	250	300	15