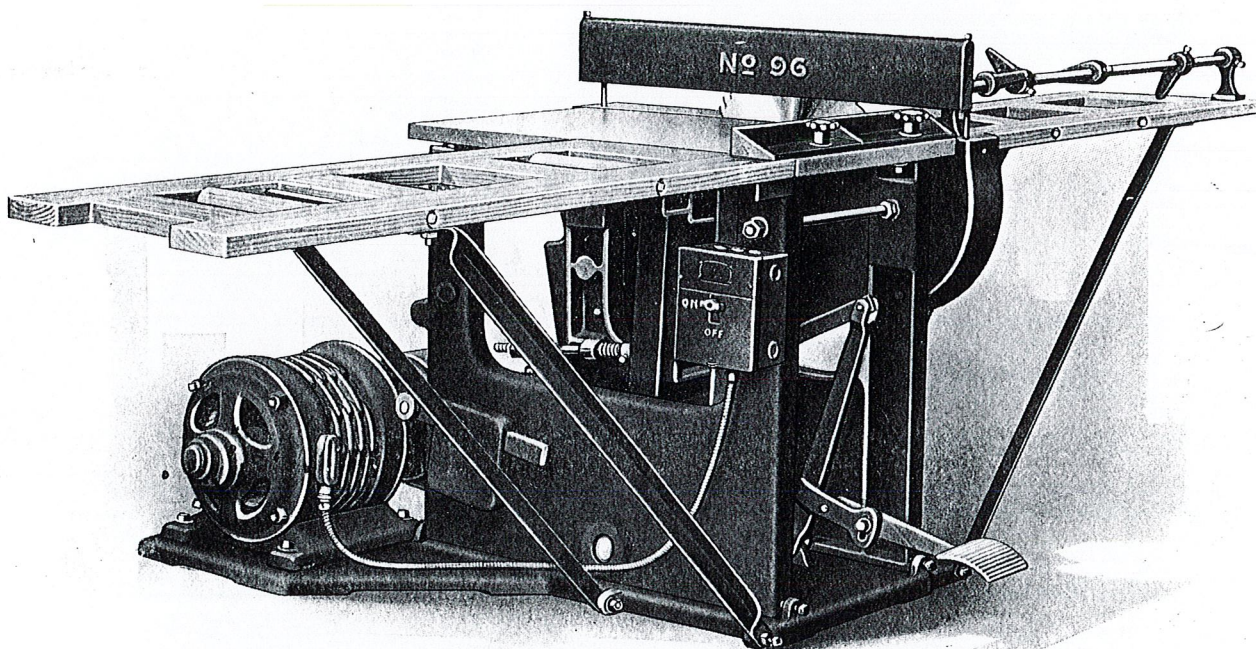




*"Every User  
Is a Booster"*

# "Oliver" No. 96 High Speed Under-Swing Cut-Off Saw

Self-Contained and Compact  
Either Belt or Motor Driven



No. 96-B High Speed Under-Swing Cut-Off Saw with Self-Contained Motor Drive.

Saves Time  
Saves Power  
Saves Money

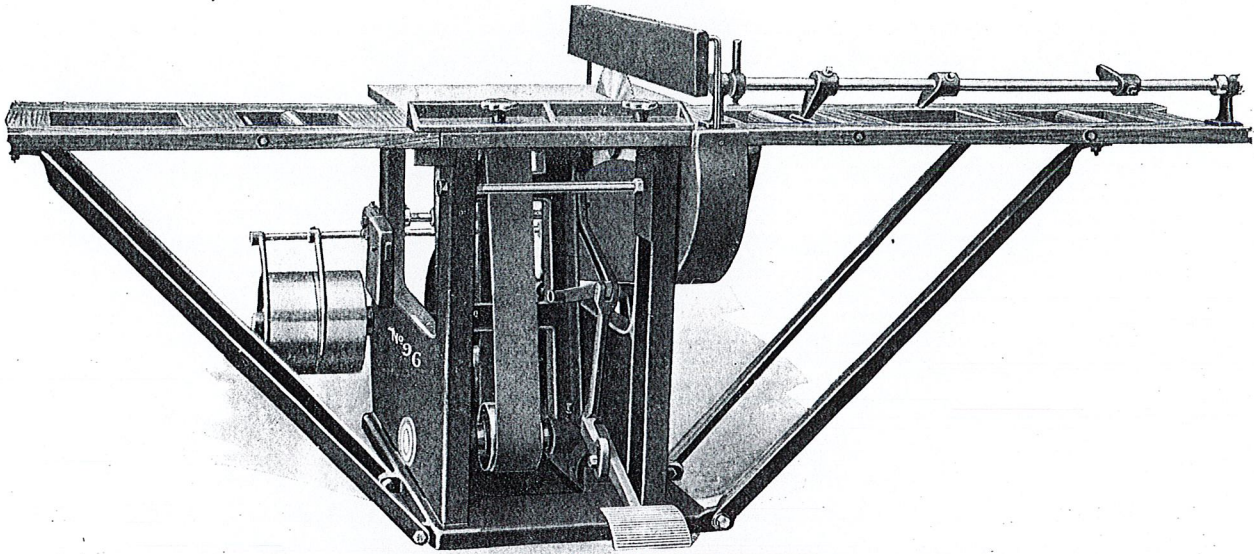
**Oliver Machinery Co.**  
Grand Rapids, Michigan, U.S.A.

BRANCH SALES OFFICES:

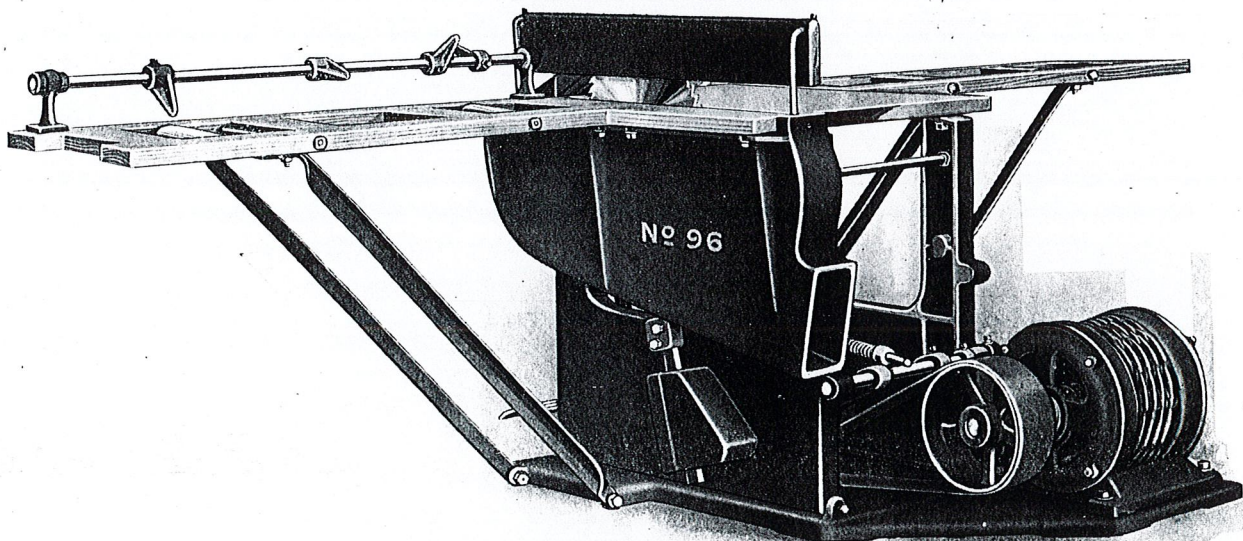
New York, St. Louis, Minneapolis, Los Angeles, San Francisco,  
Chicago, Denver, Salt Lake City, Seattle, Manchester, Eng.



OLIVER MACHINERY COMPANY  GRAND RAPIDS, MICHIGAN, U.S.A.  
NO. 96 HIGH SPEED UNDER-SWING CUT-OFF SAW



No. 96-A High Speed Under-Swing Cut-Off Saw — Front View.  
Regular Belt Driven Machine with Self-Contained Countershaft.  
Total Height 33 Inches. Total Length 121 Inches.



No. 96-B High Speed Under-Swing Cut-Off Saw — Rear Left View.  
With Self-Contained Motor Drive.



## Purpose

Designed for rapid and accurate cutting off in Planing Mills, Furniture factories, Sash and Door plants, Technical Schools, house trim and wood-working shops of all kinds where an overhead swing saw cannot be used.

## Capacity

With a 16-inch saw will cut off 1-inch material up to 20 inches wide, 4-inch material up to 16 inches wide. Saws up to 18 inches may be used, but 16-inch saw is recommended.

## Advantages

Contains practically an automatic movement; self-contained and complete in every detail; adjustable saw guard and enclosed saw-dust chute insures safety; leaves both of the operator's hands free to handle the material being cut; keeps operator 100 per cent efficient throughout the day; makes a clean cut, does not splinter the ends of finished stock; makes a square cut every time, no chance for slippage; very easy to operate, less fatigue — more work; very rapid action, more production per man hour; contains plenty of power for all classes of work; entirely self-oiling, requires less attention; built strong and substantial, easily moved if desired, can be belted from above or below the floor; consists of the best of workmanship and material;

stands in a class by itself, no machine on the market can equal it.

## Frame

Heavy, well ribbed cast iron units are securely bolted together assuring rigidity.

## Table

Main part is cast iron, 22 inches wide, 36 inches long, 33 inches high. The two auxiliary tables or extensions are of Michigan Hard Maple, each fitted with two rollers and detachably attached to the frame, giving a working surface 121 inches long. The right hand section is fitted with a positive Stop Gage with three adjustable stops, which may be set for lengths from 2 inches to 4 feet.

## Saw Arbor

Made of high carbon steel  $1\frac{3}{16}$  inches in the bearings,  $1\frac{1}{8}$  inches where saw is applied. With best grade Ball Bearings. Arbor pulley 4 inches diameter,  $4\frac{1}{2}$  inches face, grooved to remove air cushion and increase frictional contact of belt. Speed about 3600 r.p.m. for 16-inch saw.

## Swing Frame

Is rigid one piece casting. Swings not on the shaft, but on outside of turned sleeves or trunions inside of which the shaft revolves. Controlled by means of foot treadle, a pat-

ented system of levers, and a special double acting counterweight having double spring cushion; the machine is almost automatic, leaving the operator's hands free to handle material.

## Stop Rod

Is provided with adjustable collars to enable the operator to make the stroke of the saw short or long, or to clamp the saw in a stationary position, as the work requires. These collars are spring cushioned to prevent any jerking jar on both forward and return movement of saw. When the saw begins to cut, the pull on the belt draws the saw forward, but when through the cut, the belt tension is immediately released, and then when striking the spring stop on the stop rod, the saw falls back instantly ready for another stroke, making practically an automatic movement out of it.

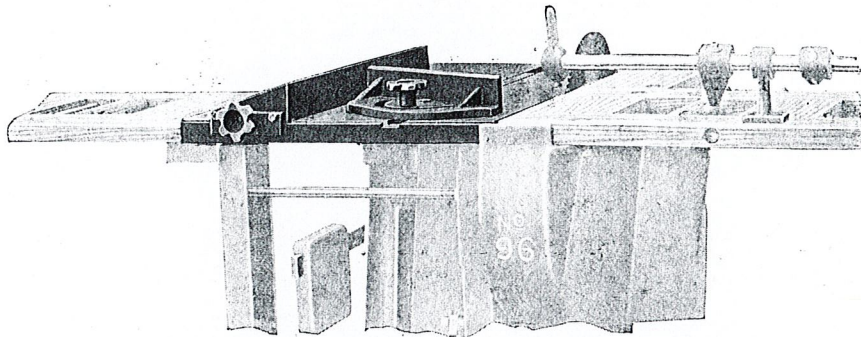
## Belt Idler

Automatically keeps the drive belt tight at all positions of the saw. Has adjustable weight enabling the operator to obtain any desired tension on the belt.

## Guard and Chute

A one piece cast iron Saw-dust Chute with rear outlet surrounds lower part of the saw. A "U" shaped guard covers upper part of the saw at all times and is adjustable for any thickness of stock being cut, making it impossible for operator to cut himself.





### No. 96 High Speed Under-Swing Cut-off Saw

View Showing Ripping Fence and Miter Gauge In Use.

When the No. 96 High Speed Under-Swing Cut-Off Saw is ordered fitted with Miter Gauge and Ripping Fence, the regular Back Fence may be removed, the Saw Rig clamped in a stationary position and either the miter gage or the ripping fence used the same as on a regular non-tilting plain top saw bench.

#### Ripping and Mitering

When so ordered a miter gage and a ripping fence may be furnished as extras. These are specially useful for contractors or builders who may clamp the saw in a stationary position and do ripping up to 18 inches wide and cross cutting up to 22 inches wide by the use of these gages.

#### Countershaft

Is self-contained, has self-oiling babbitt bearings  $1\frac{7}{16}$  inches diameter, 6 inches long. Driving pulley  $14 \times 4\frac{1}{2}$  inches.

Tight and loose pulleys  $10 \times 4\frac{1}{2}$  inches. Loose pulley bronze bushed and with oil chamber. Speed 740 r.p.m. for 16-inch saw.

#### Motor Drive

A very compact self-contained motor drive is obtained by omitting the countershaft, extending the sole plate and mounting either a 3 or 5 h.p., 1800 or 1200 r.p.m. Motor directly on the sole plate and belting through the idler to the saw arbor. 5 h.p., 1200 r.p.m. motor is recommended for heavy work.

#### Floor Space

Maximum floor space about 4 x 10 feet.

#### Equipment

Regular equipment consists of the machine with one 16-inch swing cut-off saw, two extension tables; back fence, stop rod with three stops, saw guard, dust chute, internal endless leather belt, self-contained countershaft with belt shifter and necessary wrenches.

#### CODE, WEIGHT, ETC.

CODE	MACHINE DESCRIPTION	WEIGHT IN POUNDS		CUBIC FEET
		CRATED	BOXED	
Daroa	No. 96-A — Belt Driven Machine.....	1000	1200	36
Darob	No. 96-B — Self-Contained Motor Driven.....	1100	1300	40

#### EXTRAS

Debax	Wire Mesh Guard for Belt and Motor Pulley on No. 96-B.
Darem	Miter Gage, including the table groove for same.
Darer	Ripping Fence, including Table Clamp for same.