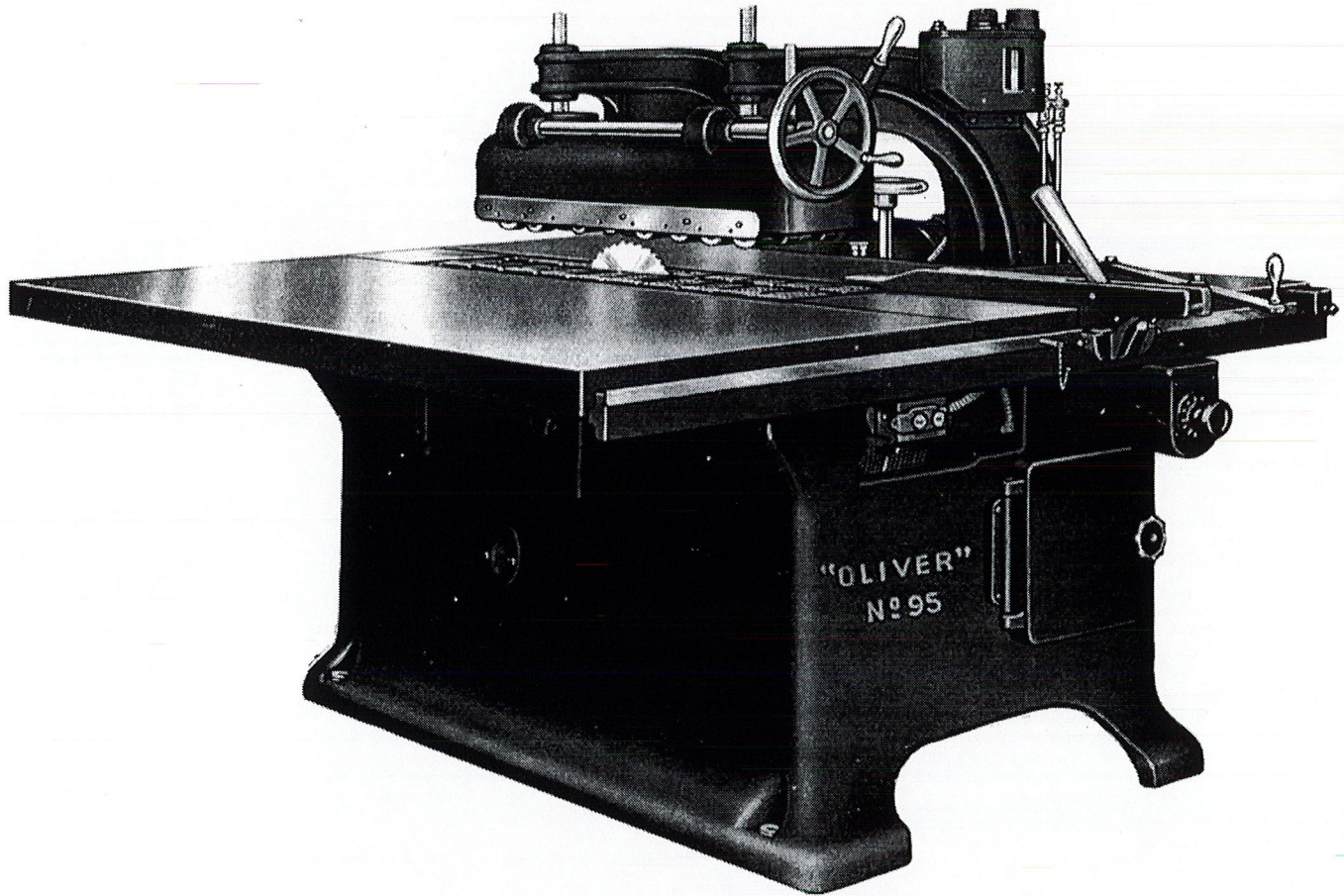




*"Every User  
Is a Booster"*

# "Oliver" No. 95 Straitline Ripper

Perfect Glue Joint Ripping  
Saves Lumber — Saves Labor — Saves Money



General View from Operating End—All Controls Within Easy Reach of the Operator

## Purpose

The purpose of this machine is to rip boards of any commercial thickness, width and length, such as used in furniture factories, cabinet works, and other woodworking plants, so as to be in perfect shape for gluing directly from the saw without any other operation; hence its name, "Straitline Ripper." We claim, and offer to prove in any manner desired, that perfect joints ready for gluing can be ripped on this machine so perfectly as to enable the work coming from this machine to be glued together, challenging anyone to find any trace of the joint except as indicated by the grain of the wood or the color of the glue.

Guaranteed to Produce  
Perfect Glue Joints

Manufactured by

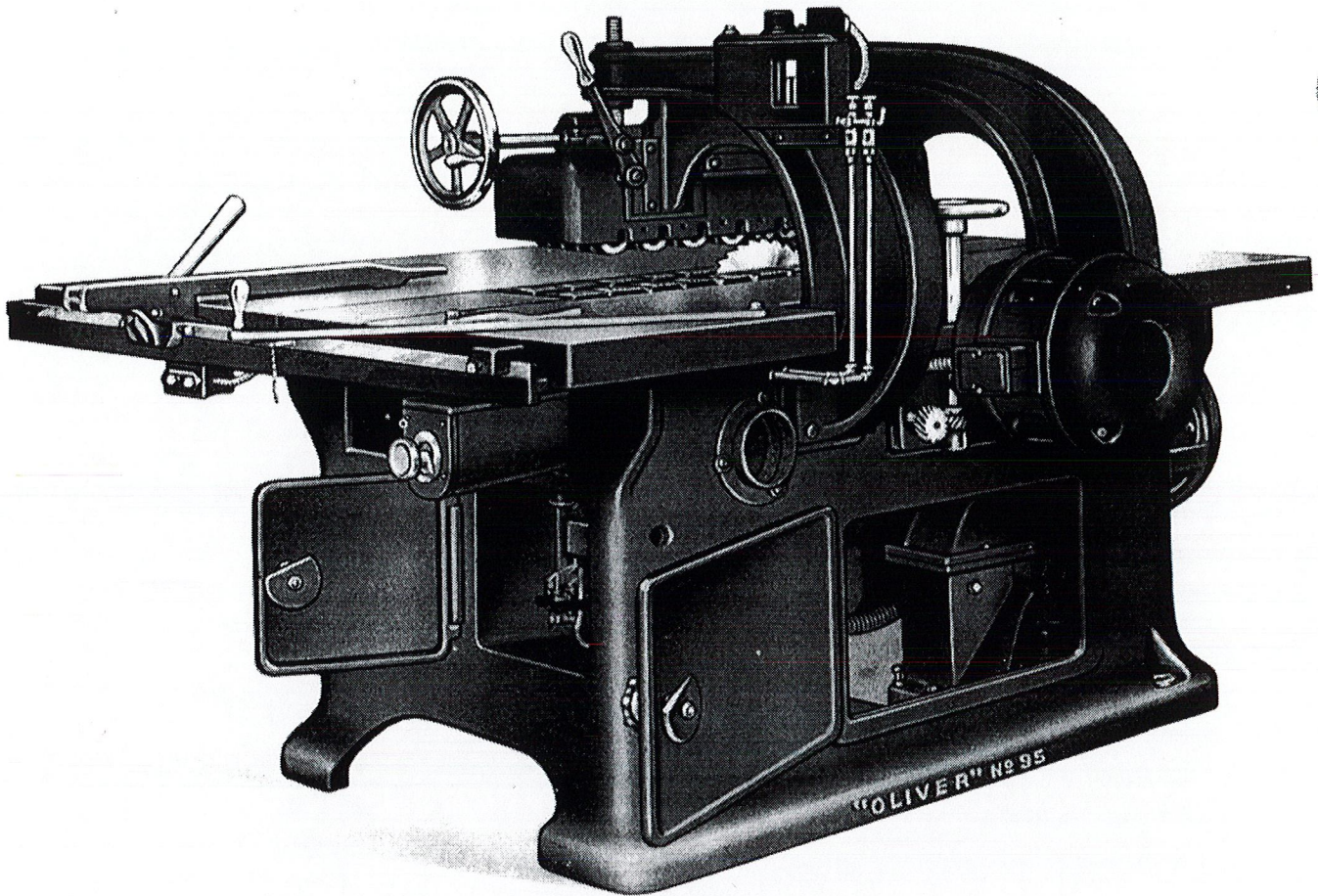
## Oliver Machinery Co.

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. 95 "OLIVER" PERFECT STRAITLINE RIPPER



Front View from the Right Side with Doors Open, Showing Convenient Access to All Parts

### Principle

The advantage of the saw "underneath" the table principle, which forces the stock down against the bottom chain (because of the action of the saw teeth from the top of the stock downward) has now been so well established as an engineering fact, that any attempt to contradict it is mere folly. In the saw underneath principle used in this machine, all power driven revolving and rolling units are carried directly by the massive one-piece base casting. This assures permanent alignment, dependable footing, and eliminates vibration.

### Capacity

The machine is guaranteed to rip any length and any thickness up to

4 inches thick. The distance between the saw and the upright column which supports the pressure bar is 22½ inches. Distance from saw to the left edge of table, 36 inches. Four rates of feed are provided, 40, 60, 80 and 120 feet per minute, assuring the correct feed rate for an almost endless variety of work. 14-inch saw projects above the chain 2½ inches. Saws as large as 18 inches may be used.

### Base

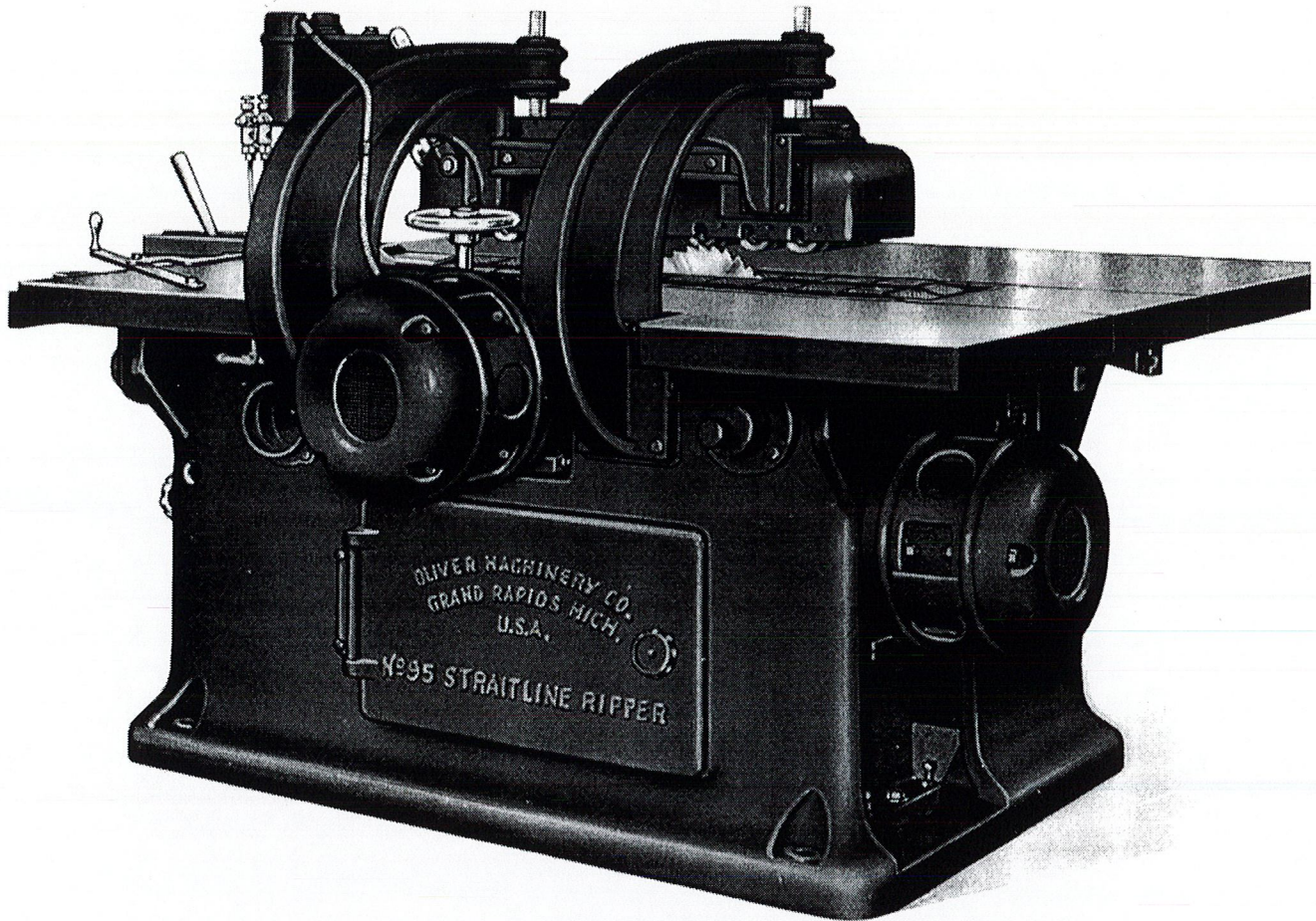
One-piece cored casting, 67 x 41 inches at the floor line. Houses all electrical equipment and encloses all running parts below the table top. Keeps the chain clean from saw dust and shavings, and providing dust-proof compartments for the chain, the saw and the electrical controls.

### Table

Is very large, cross ribbed, extra heavy (1100 lbs), 63 inches wide and 80 inches long, with highly polished ground top, affords a convenient working surface that is impossible to surpass. Table is 36 inches wide to the left of the saw and 27 inches to the right.

### Electrical Equipment

Machine is regularly equipped with 10 h.p., 3600 r.p.m. motor mounted directly on the Ball Bearing saw arbor, and 3 h.p., four speed motor built-in directly with the totally enclosed lubricated feed works. Automatic Push Button Control having low voltage protection and overload relay is mounted in an enclosed compartment in the



Rear View from the Right Side, Showing Four Speed Feed Motor Unit, the Saw Arbor Motor Unit, and the Extra Heavy Pressure Arms

base, and wired completely to the motors ready for use as soon as the line wires are connected through the threaded opening provided for same. Larger motors for extra heavy work can be furnished when so ordered with corresponding adjustment of price.

### Saw Arbor

The saw arbor is  $2\frac{1}{4}$  inches diameter between the bearings, and is 2 inches diameter where the saw is applied. It is made of crucible steel ground and finished perfectly true, running in extra precision ball bearings, with the saw motor mounted directly on the rear end of the arbor, and the entire unit supported by the saw arbor housing which is

carried directly on the base of the machine against finished ways, and adjusted vertically by means of handwheel, spiral gear and raising screws, to provide convenient way for adjusting the height of the saw above the table to suit different diameters of saws that may be used. In practice it is only necessary to raise and lower the pressure unit for varying thicknesses of stock to be ripped, paying no attention to the height of the saw, except for initial setting.

### Saw Collars

Saw collars are  $8\frac{1}{4}$  inches diameter, with special design having outer pressure lip which stiffens the saw blade materially and assures straight line cutting.

### Saw Blade

Opening a door for the saw chamber gives very convenient method for removing the saw from underneath without changing the adjustment of any unit of the machine. The type of saw to be used depends somewhat on the type of work to be performed. Expert recommendations furnished when required.

### Chain Feed

This is composed of 72 links, 4 inches wide,  $3\frac{1}{2}$  inches long, and  $1\frac{1}{2}$  inches thick, each link weighing 3 lbs. 14 ozs. The chain is guided by an ingenious arrangement of multiple grooves in the renewable track and corresponding grooves

in the chain. The chain bed or track is heavy, well ribbed, and crossribbed for rigidity, and provided with convenient vertical adjustment for perfect alignment. Automatic lubrication in the multiple "V" grooves, assuring long life and easy operation. A one-piece sprocket or cam at the rear end of the chain applies power, and at the front end two segment cams with "V" tracks provide a very convenient and positive control over the stock, so that straight or hollow joints can be made at will. Bearing surface of over three times that of any other saw on the market is provided for the chain. It is absolutely impossible for one chain to get out of alignment with the other. The top of the chain is corrugated both ways to give maximum gripping power.

### Pressure Rolls

The pressure unit housing measures approximately 40 inches long. Distance center to center of the outside pressure rolls is 31 inches. There are sixteen pressure rolls mounted on hardened and ground shafts  $\frac{3}{4}$  inch diameter and suspended in pairs. The pressure roll

springs require a force of 75 lbs. to compress  $\frac{3}{4}$ -inch. The pressure bar locks into position after set for height. Special design of these rolls utilizes several times the bearing surface that is used on other type of pressure rolls, assuring long life and dependability.

### Feed Works

Worm and worm gear totally enclosed splash lubricated speed reducing mechanism with bronze worm gear measuring about 18 inches diameter and steel worm carried by steel shaft running in high grade Ball Bearings reduce the speeds of the four-speed motor to give steady dependable drive to the ball bearing shaft that carries the one-piece steel sprocket cam which operates the feed chains. The entire feed works as a unit; can be easily removed from the machine if ever necessary, for convenient check-up.

### Lubrication

Full automatic sight oilers fed from reservoir tank with electrically operated valves, automatically lubricate the chain runways only

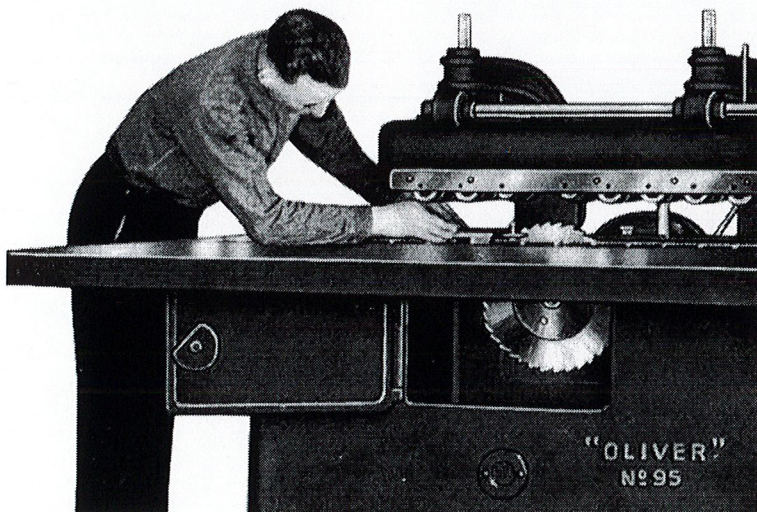
when the chain is operated, and the oil is automatically shut off when the chain is not run, eliminating dependence on the operator's memory for turning the lubricating valves on or off. The saw motor bearings are lubricated from a single station by means of oil cups brought near the rear of the saw arbor. The feed works are lubricated by splash system from the oil tank filled only periodically up to the gauge provided for same. Thus the simplest, yet most effective lubricating system, is provided.

### Equipment

Machine complete with saw and feed motors and controllers, wired ready for use, including one 14-inch diameter saw, necessary operating wrenches, and Jointing Attachment to enable convenient, yet sure way, of jointing the saw on its own arbor while running.

### Floor Space

At floor line, approximately 67x41 inches. Total overall measurement, approximately 75 inches wide, 88 inches long.



### CODE, WEIGHT, ETC.

Machine Description	Weight in Pounds		Cubic Feet
	Crated	Boxed	
No. 95 "OLIVER" Straitline Ripper, with regular equipment	4850	5000	136

Code — Dande

### EXTRAS

Code	Description
Dandi 15 h.p.	Motor-On-Arbor instead of regular 10 h.p.
Dando 20 h.p.	Motor-On-Arbor instead of regular 10 h.p.

