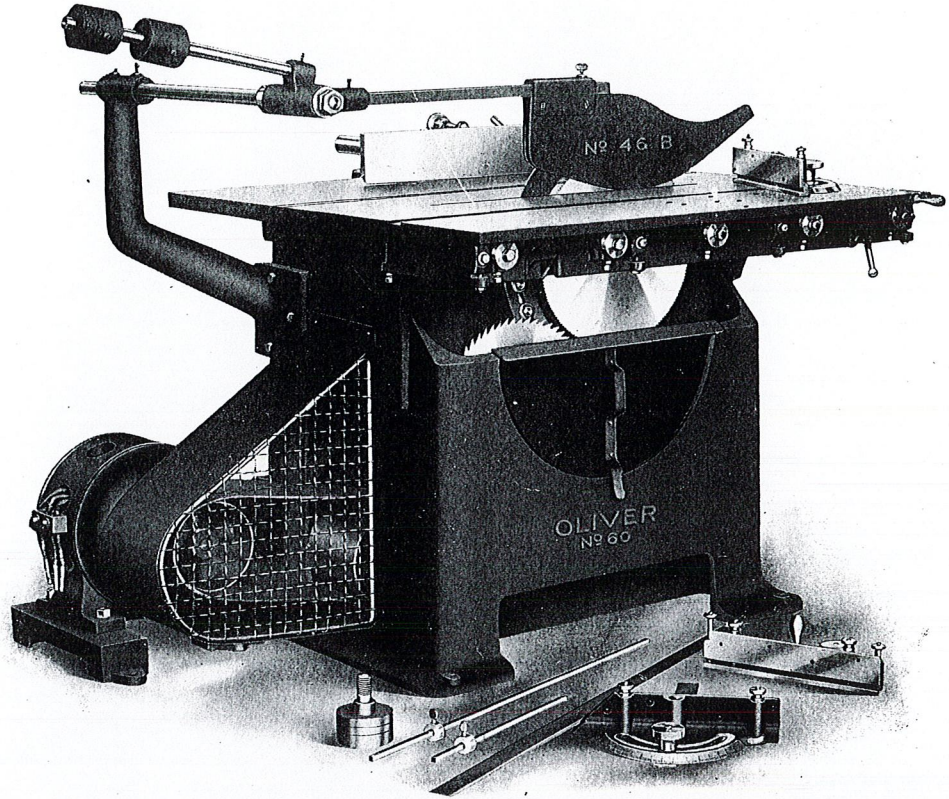


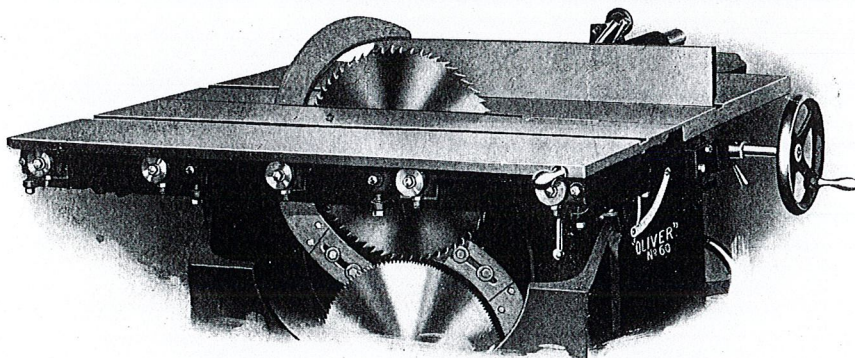


*“Every User
Is a Booster”*

The “Oliver” No. 60 Universal Saw Bench



Showing Motor Drive
Note how completely this machine is guarded



Showing rollers for sliding table and splitter guards

Manufactured by

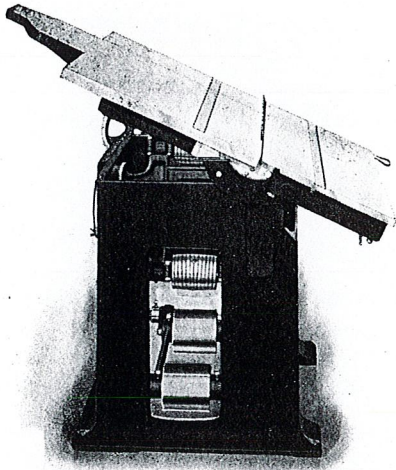
Oliver Machinery Co.

Grand Rapids, Mich., U. S. A.

BRANCH 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. 60 "OLIVER" UNIVERSAL SAW BENCH



Showing idler and part of yoke

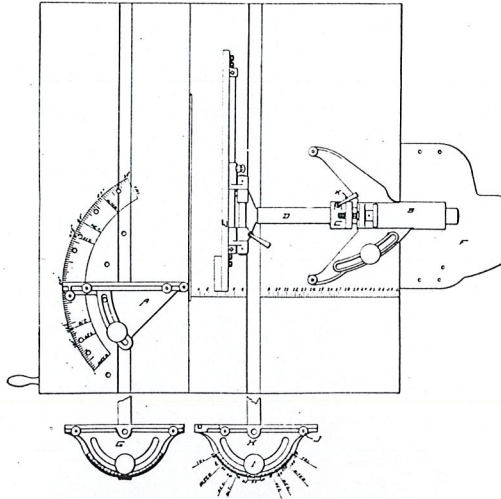
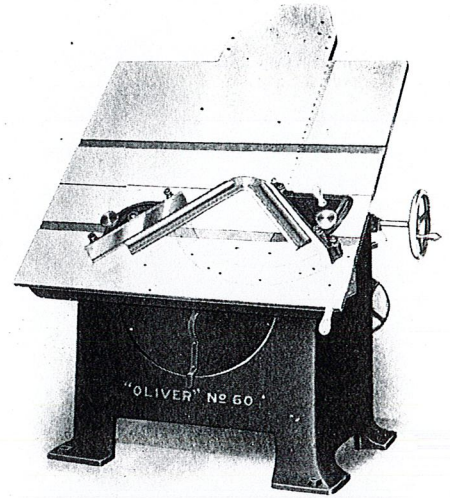
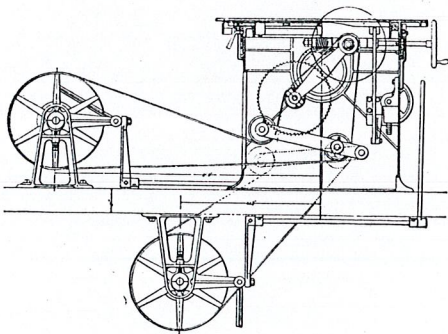


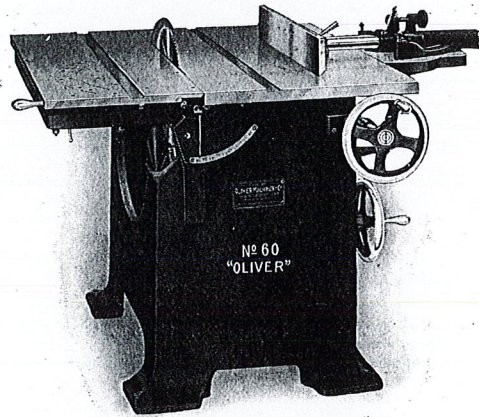
Table graduations and foot gauges in place



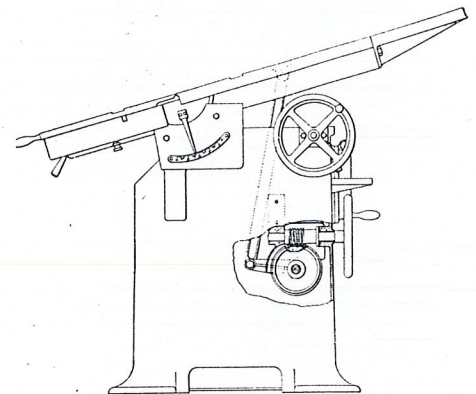
Gauges placed for cutting compound angles



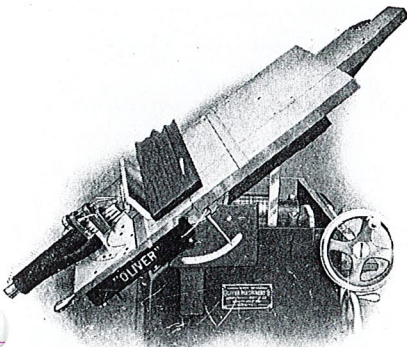
Showing two methods of belt drive



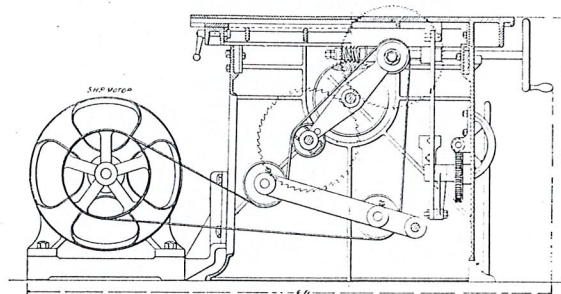
Showing splitter guard behind saw and table arranged for plain ripping



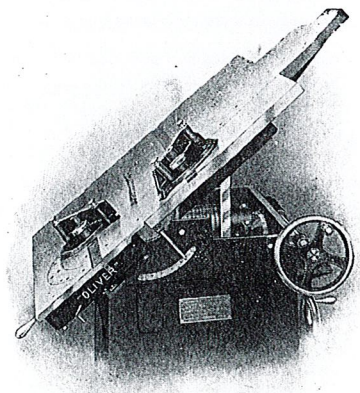
Showing tilting mechanism which is completely enclosed in dust proof case



Showing fence to left of the saw



Motor mounted on bracket bolted to machine



Showing method of tilting the table - Cutting right and left miters at an angle

OLIVER MACHINERY COMPANY  GRAND RAPIDS, MICHIGAN, U.S.A.
NO. 60 'OLIVER' UNIVERSAL SAW BENCH

General Construction

In the construction of this machine we have adopted that refinement characteristic of high class machine tools. Self locking devices, self oiling features, fine micrometer adjustments for the various gauges, machine cut gears, and correct workmanship, serve to give it durability, ease of operation and adjustment, accuracy and efficiency that is not found on the ordinary wood working tools.

Capacity

It has two saw arbors, one carrying a 16-inch rip saw and the other a 16-inch cross cut saw. Either saw operative while the machine is in motion. It will rip to 26 inches wide, cut off 36 inches wide up to 1½-inches thick, and a 16-inch saw will project through the table 4⅞ inches. 20-inch saws can be carried one at a time. Will dado up to 4 inches wide if desired.

Frame

This is made in the cored form, well ribbed and with a strong flange at the base for ample floor support. At the front the casting is curved to give the operator the required foot room. A cast partition divides the inside into two chambers, separating the rotating mechanism from the saws and directing the saw dust from the working parts. Main portion 30 x 40 x 32 inches high.

Table

We supply a metal table 41¼ x 44½ inches composed of a stationary and a rolling section. It is strongly ribbed with a double rib around the outside edge for the dual purpose of preventing warp and acting as a clamping surface for special forms that may be required. An extension bracket 12 x 16½ inches on the stationary side receives and supports the ripping fence to permit ripping stock of extra width. Beginning at the saw line, this section of the table is graduated its entire width into eighths.

Rolling Table

This section 17¼ inches wide is cross ribbed for strength and is mounted on roller bearings that eliminate friction in moving it past the saw. A lateral adjustment is provided to permit drawing the table away from the saw to aid in substituting dado heads and thick grooving saws. Adjustments are provided for retaining the table at the proper bearing on the rollers.

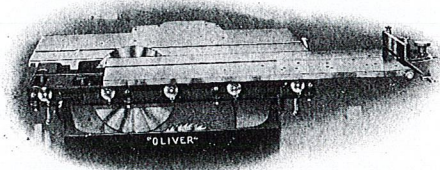


Table Tilting Mechanism

This is operated by hand wheel and worm and gear enclosed in cast iron box and is self locking, holding the top firmly at any angle up to 45 degrees, as indicated on the dial provided. The rocker cap is adjustable for wear.

Saw Arbors

These are two in number, of crucible steel and machine ground. They are fitted into perfect self oiling bearings 1⅞-inch diameter; front bearings 4¼ inches long, rear bearing 3½ inches long. Bearings are made to compensate for wear. Arbors are 1-inch diameter where saw is applied. End thrust is taken up by threaded thrust collars drawing pulley against inside end of rear bearings. The arbor pulleys are 4¼ x 6¼ inches, of the pneumatic type, machined all over and properly balanced. Speed 2435 R. P. M.

Bearings

Genuine bronze adjustable and interchangeable bushings are used for the saw arbor bearings. These can easily be replaced any time without any trouble or machining of any kind.

Saw Arbor Yoke

This supports the two saw arbors. Its front end is held by a disk bearing 19 x ¾-inch face. Its rear end is held in a shoulder bearing of 6½ x 1¾-inch face. End motion is prevented by the worm gear securely bolted to the outer end of the shoulder bearing thus locking the entire yoke to the frame. The yoke is revolved readily when the saws are stationary or in motion and is accomplished by a hand wheel engaging worm and worm gear mechanism encased in a dustproof cover. The revolving mechanism is clamped in any desired position by a lever clamp acting on the worm shaft.

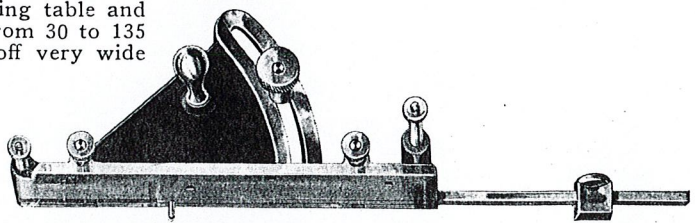
Automatic Idler

This forms one of the vital parts of the machine, and is located to automatically provide a leverage on both the tight and slack side of the belt. The idler pulleys are 6 x 6¼ inches secured to steel shafts which run in babbitted self oiling bearings.

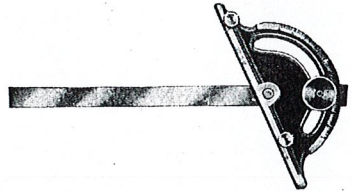
Universal Ripping Fence

This may be used on either side of the saw, or secured at any angle not in line, with the saw, on either the stationary or rolling table. It has a quick adjustment of 12 inches without changing the locating pins to the next set of holes. A micrometer device is supplied which will adjust the fence to and from the saw for fine and extremely accurate adjustment. It may be tilted to an angle of 45 degrees and it has a parallel adjustment whereby it may be set to or from the operator 9 inches. A metal block is provided for attachment to the fence to serve as a stop and give clearance when cross cutting.

Miter Cut-off Gauge This is supplied for use on the rolling table and has capacity for cutting at angles from 30 to 135 degrees. It is used when cutting off very wide stock. It has an auxiliary rod and stop which adjusts in the groove in face of the fence for cutting to various lengths. Two stop rods, one 18 inches and one 36 inches long are supplied and these may be used on the universal gauges.



Universal Gauges These are two in number and operate in the table grooves as shown in accompanying half tones. They are graduated from 30 to 150 degrees and may be set accurately. When the gauges are not used the grooves in the table are fitted with steel strips provided.



Equipment No. 46-B Universal Saw Guard, one 16-inch rip saw, one 16-inch crosscut saw, with steel splitter guards, one universal bevel ripping gauge, one miter cut-off gauge, two universal miter gauges, one No. 135 Circular Segment Gauge, one clearance block, two stop rods, one dado sleeve with three filling collars, two filling strips for table grooves.

Motor Drives These are sometimes preferable to countershaft. We recommend the use of a 5 H. P., constant speed, fully enclosed motor, either attached to the machine by means of a bracket, or placed upon the floor.

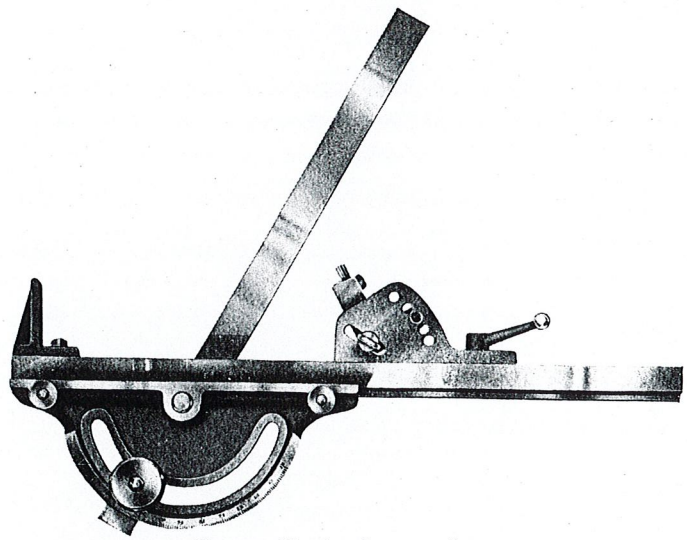
Countershaft This is secured to the floor on which the machine rests or hung below the floor. Hangers are of ring oiling type. The loose pulley has a self oiling bronze sleeve which runs loose both on the shaft and inside the pulley. T & L pulleys 10 inches diameter by 6½-inch face, driving pulley 18 inches diameter by 6½-inch face. Speed 575 R. P. M.

CODE, WEIGHT, ETC.

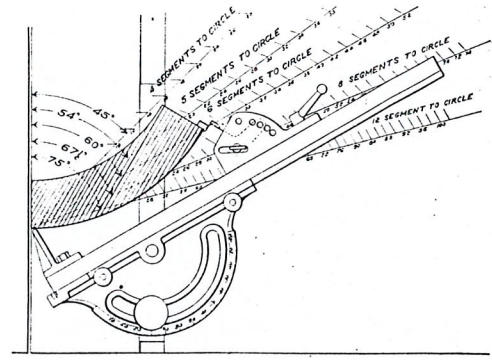
Code	No.	Machine	H. P.	Floor Space	Weight in Pounds		Cubic Feet
					Crated	Boxed	
Dabber	60-A	With Countershaft	5-7½	4' 6" x 8' 0"	2350	2600	75
Dabbing	60-B	Without Countershaft	5-7½	4' 6" x 4' 3"	2050	2400	64
Dabble	60-C	With Motor Bracket, belt and belt guard	5-7½	4' 6" x 5' 6"	2200	2450	65

EXTRAS

Dabmi One Special Dado Head 12 inches diameter to work grooves ⅛-inch to 2 inches wide.



No. 135 Circular Segment Gauge



Gauge complete with miter-gauge, bar and locating points