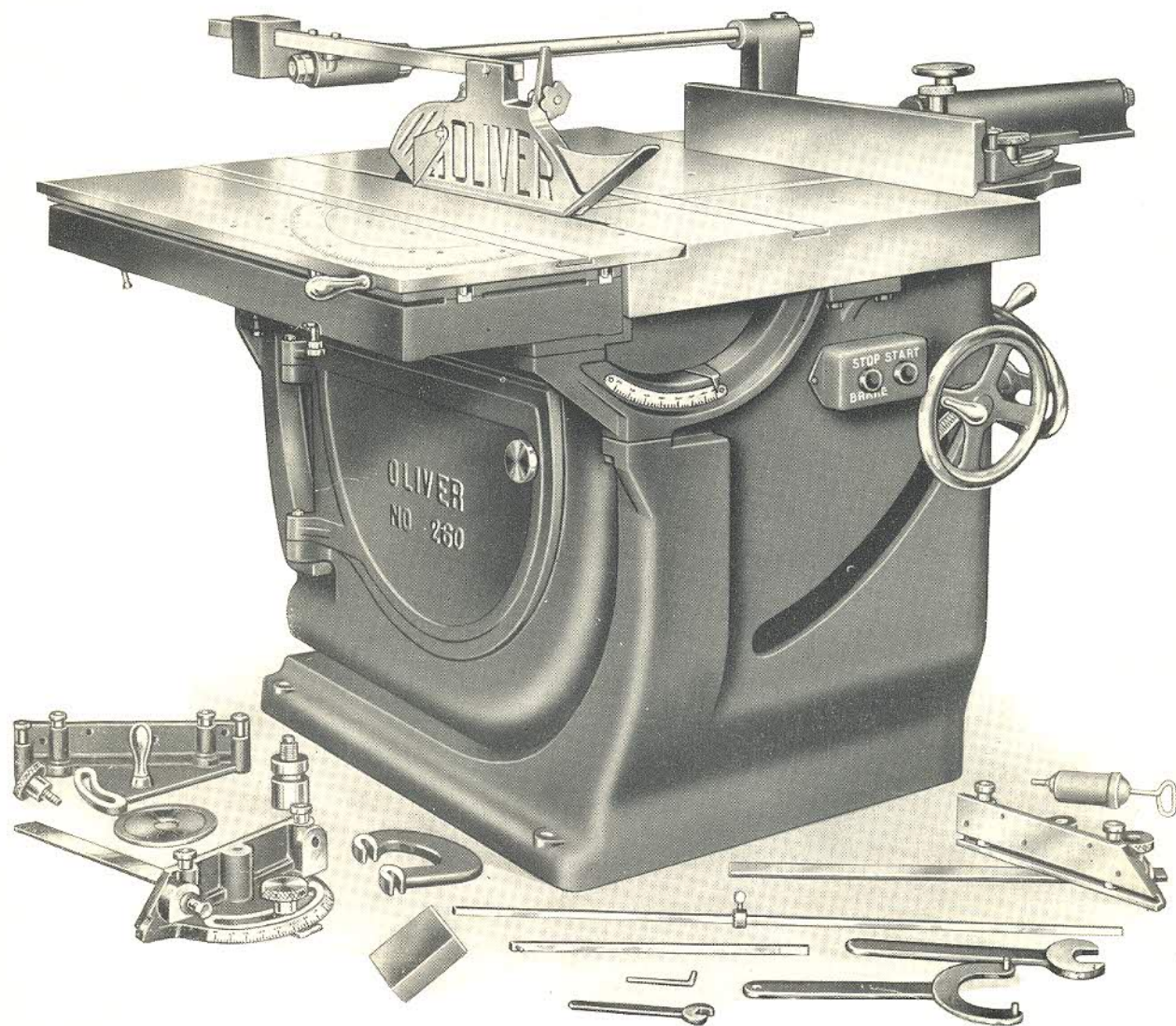




*"Every User
is a Booster"*

"Oliver" No. 260 Double Arbor Universal Tilting Saw Bench

Motor-on-Arbor Type



View from the Front or Operator's End, Showing Machine in Normal Position for Straight Ripping and a Group of Gauges, Attachments and Parts Constituting the Regular Equipment.

Maximum Safety Guards.
Table ALWAYS remains HORIZONTAL.
SAW TILTS up to 45 degrees.
Self-Contained Dust Chute.
Precision Ball Bearings.
Automatic Electrical Saw Brake.

Manufactured by

Oliver Machinery Co.

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

BRANCH SALES OFFICES:

New York, Cleveland, Detroit, Indianapolis, Chicago, St. Louis,
Minneapolis, Denver, Salt Lake City, Seattle, Portland,
San Francisco, Los Angeles.

Design

The "Oliver" No. 260 Double Arbor Universal Saw represents another forward step in direct motor driven woodworking machines, wherein belts, pulleys, idlers, shafts, etc., are entirely eliminated, and a shaftless motor is built-in directly on each of the two ball bearing saw arbors, in a self-contained, compact, unit fashion, assuring greater economy, greater safety, greater convenience and greater ease of operation and maintenance. This machine is very useful in any woodworking shop where both ripping and cross cutting is to be done on the same machine, because without changing saws, either a rip saw or a cross-cut saw, motor-on-arbor type, may be instantly put in operation by merely turning the hand wheel which swings the yoke that carries the two motor-driven saw arbors. This feature makes this machine especially suitable for pattern shops, engineering concerns, and educational institutions.

Capacity

Has two saw arbors, one carrying a 16" diameter rip saw, the other carrying a 16" diameter cross-cut saw; either saw can be brought into operation by merely turning the hand wheel in the front of the machine; will rip 24 $\frac{1}{4}$ " wide with type "F" ripping fence, cut off 36" wide, 16" saw projects through the table 3 $\frac{3}{4}$ ". Two 18" saws can be mounted on the arbors at the same time. 20" saw may be used one at a time, will dado up to 4" wide if desired.

Base

Made of cored form, well ribbed, with strong flange at the base for ample floor support. Main portion 30"x37"x32" high.

Table

41 $\frac{1}{2}$ "x44 $\frac{1}{2}$ ", composed of stationary and a rolling section; strongly ribbed with a

heavy 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"x16 $\frac{1}{2}$ " on the stationary side receives and supports the ripping fence to permit ripping stock of extra width. Rolling section to the left of the saw, 17 $\frac{1}{2}$ " wide rolls on ball bearing ways having vertical adjustment for alignment and wear; and may be moved 4" from the saw, permitting the use of dado heads and for applying saws. Stationary section 24" wide, and beginning at the saw line this table is graduated its entire width in eighth inches.

Saw Tilting Mechanism

Consists of hand wheel, screw and nut device, self-locking, holding the yoke firmly to any angle up to 45 degrees, and with clamp screw for positive locking for long runs. Scale and pointer at the front indicate the exact degree of tilt.

Saw Arbors

Two in number, 1" diameter where the saw is applied, of crucible steel, machined and ground true, operate in ball bearings, lubricated by grease system. Bearings are encased so completely that no dirt can come in contact with them.

Saw Arbor Yoke

This is a one-piece casting supporting the two saw arbors and motors in a built-in unit fashion, its front end is held by a finished disk bearing 25"x1 $\frac{1}{2}$ " face; its rear end is held in a shoulder bearing. 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 by a hand wheel engaging a worm and gear mechanism encased in a dust-proof cover. The revolving mechanism may be locked in any desired position by a lever clamp acting on the worm shaft.

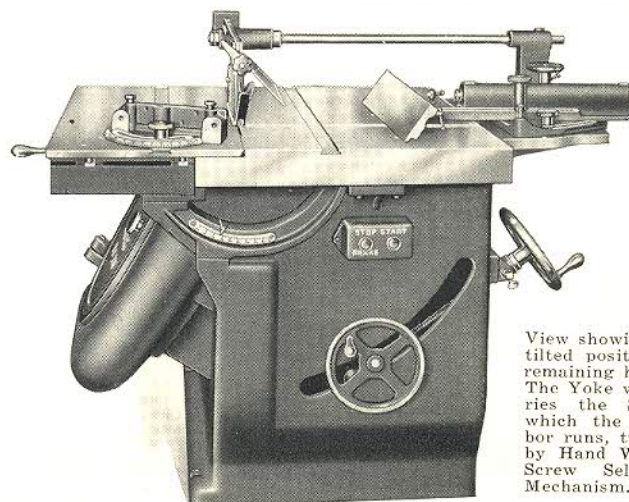
A cast partition divides the inside into two chambers, separating the rotating mechanism from the saws, and directing the sawdust into a built-in dust chute with a cast iron swinging door.

Electric Brake

Both saw arbors have a brake collar for the electric brake unit. Holding the finger on the stop button applies the brake to the rotating arbor.

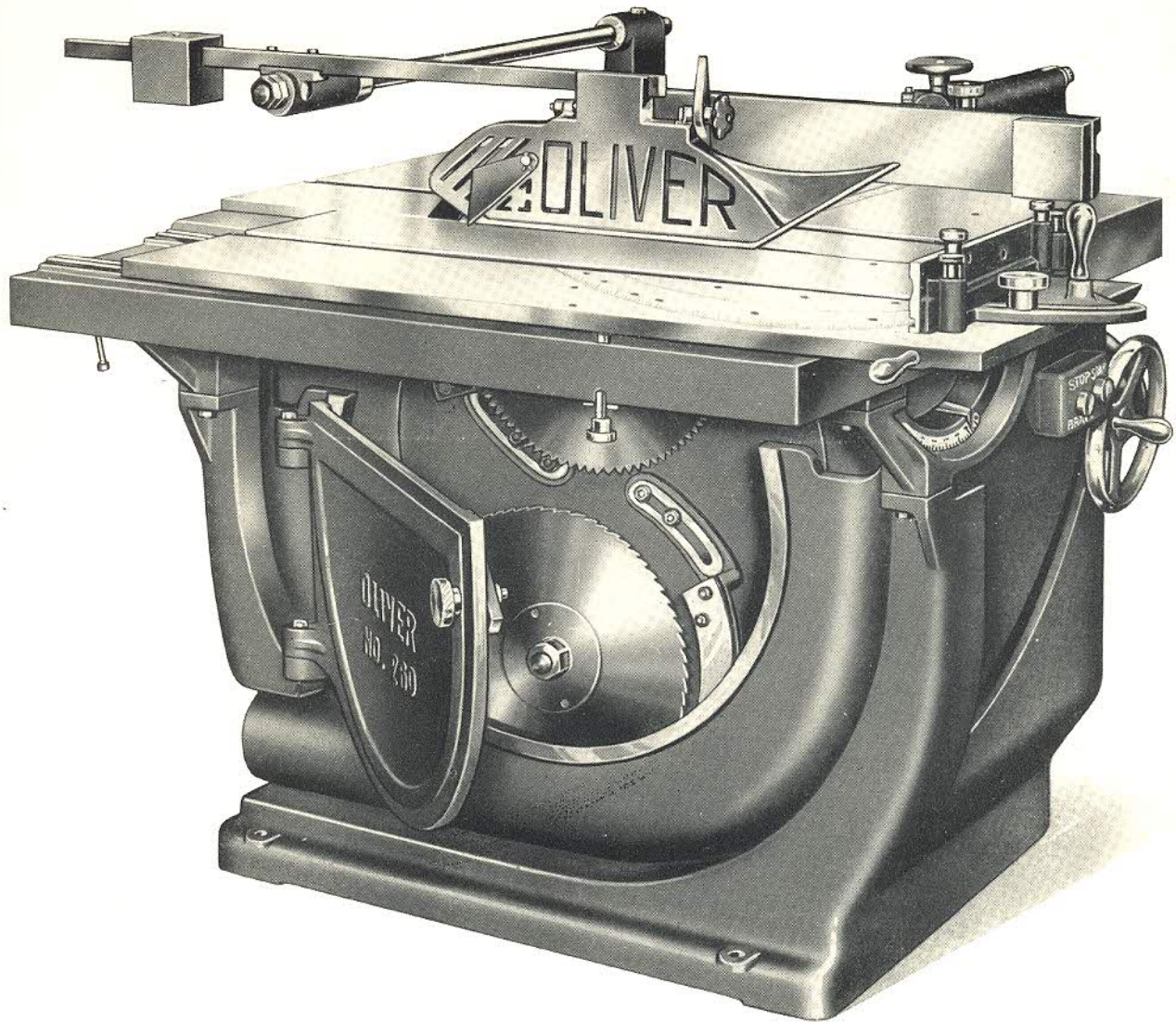
Motor Drive

Two motors are used, each 5 h.p., 2 or 3 ph., 60 cycle, 220 or 440 volts, 3600 r.p.m., one on each saw arbor built-



View showing saw in tilted position, table remaining horizontal. The Yoke which carries the Swing in which the Saw Arbor runs, tilts easily by Hand Wheel and Screw Self-Locking Mechanism.

OLIVER MACHINERY COMPANY  GRAND RAPIDS, MICHIGAN, U.S.A.
NO. 260 "OLIVER" MOTOR-ON-ARBOR UNIVERSAL TILTING SAW BENCH



"Oliver" No. 260 Double Arbor Universal Tilting Saw Bench with the Front Chamber Door Opened Showing Easy Accessibility and the Ball Bearing Universal Rolling Table Pulled Out to Show Capacity of Wide Cross Cutting.

in dust-proof housing with the saw arbor running in ball bearings; all mounted in the motor chambers of the one-piece yoke, and easily accessible from the front of the machine by removing the front bearing caps.

Starter

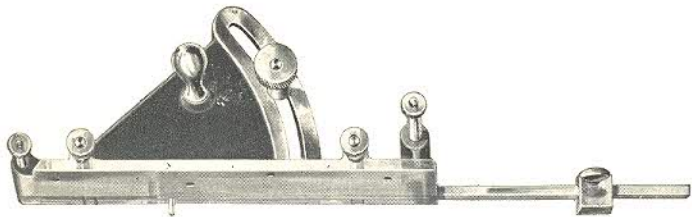
Of the Push Button Magnetic Type, with overload and under-voltage protection, and with push button start and stop station mounted on the machine in a convenient place for the operator; so arranged as to allow only the motor which is uppermost to run,

and the other motor which is down, does not run. As soon as the saw blade is lowered below the level of the table the motor will automatically stop, and the saw which is being raised so as to project through the table cannot be started until the push button station is operated, providing maximum safety. All wiring between motors and starter is included in conduit.

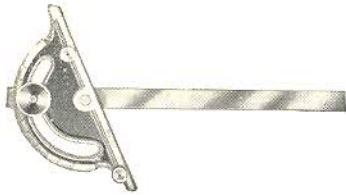
Universal Tilting Ripping Fence — Type F

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. Has quick adjustment of 12" 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 has a parallel adjustment whereby it may be set to or from the operator 9". This fence tilts down to 45° and easily locks at any tilted position. A metal block is provided for attachment to the fence to serve as a stop and give clearance when crosscutting.



Miter Cut-Off Gauge



No. 1 Universal Cross-Cut Gauges

Miter Cut-Off Gauge

This is supplied for use on the rolling table and has capacity for cutting at angles from 30 to 150 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", and one 36" long, are supplied, and these may also be used on the universal gauges.

Universal Cross-Cut Gauges

Two in number, operate in the table grooves one on each side of the saw. They are accurately graduated 60 degrees each side of center and easily clamped at any desirable angle. When the gauges are not used, the grooves in the table are fitted with steel strips which are provided for that purpose. A connecting yoke is furnished to tie these two gauges together when crosscutting long pieces.

Equipment

One G-260 Universal Saw Guard with effective hood and Kick-Back Dogs, with arm

fastened to the table; one 16" rip saw one 16" crosscut saw, two adjustable steel splitter guards, one type "F" ripping fence, one miter cut-off gauge, two universal cross-cut gauges, one tie yoke, one clearance block, two stop rods, one dado sleeve with three fill-in collars, one each 1/2", 5/8", and 1" thick, two filling strips for grooves in table, two 5 h. p. motors and push button built-in magnetic starter, and electric brake.

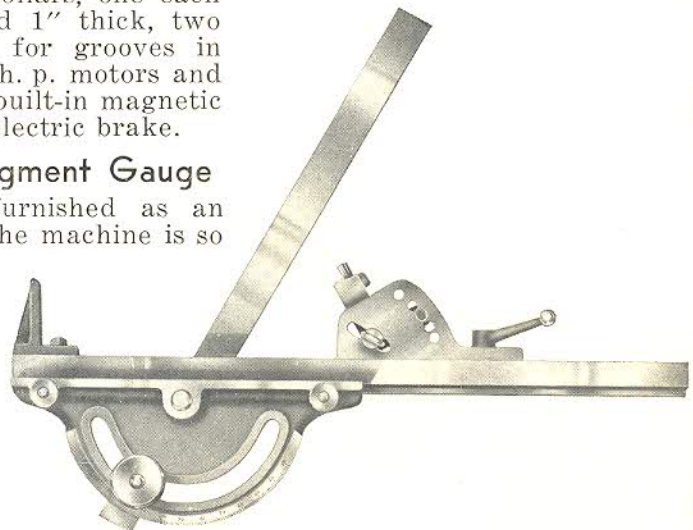
Circular Segment Gauge

May be furnished as an extra when the machine is so

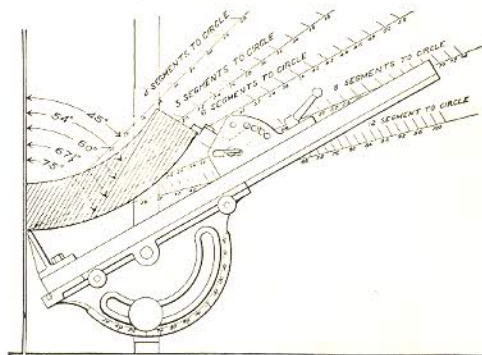
ordered, as the table must be graduated accordingly. By the use of this gauge, one may cut a segment in any circle from 10" to 80" in diameter, using 4, 5, 6, 8 or 12 segments, as may be proper for the size of the circle. Locating points held in a slotted bar are made adjustable to meet the necessary changes. The segments can be placed at points on the ends for locating the outside of the circle which does away with all inaccuracies.

Floor Space

Total space, 4' 6" x 4' 3".



No. 135 Circular Segment Gauge shown mounted on No. 1 Universal Cross-Cut Gauge



CODE, WEIGHT, ETC.

CODE	MACHINE DESCRIPTION	WEIGHT IN POUNDS CRATED	POUNDS BOXED	CUBIC FEET
Dabbo	No. 260-D Universal Motor-Arbor Saw Bench, with motors, starter, and Regular equipment	2400	2800	82
EXTRAS				
Dagger	No. 135 Circular Segment Gauge, including bar, locating points, and table graduations			