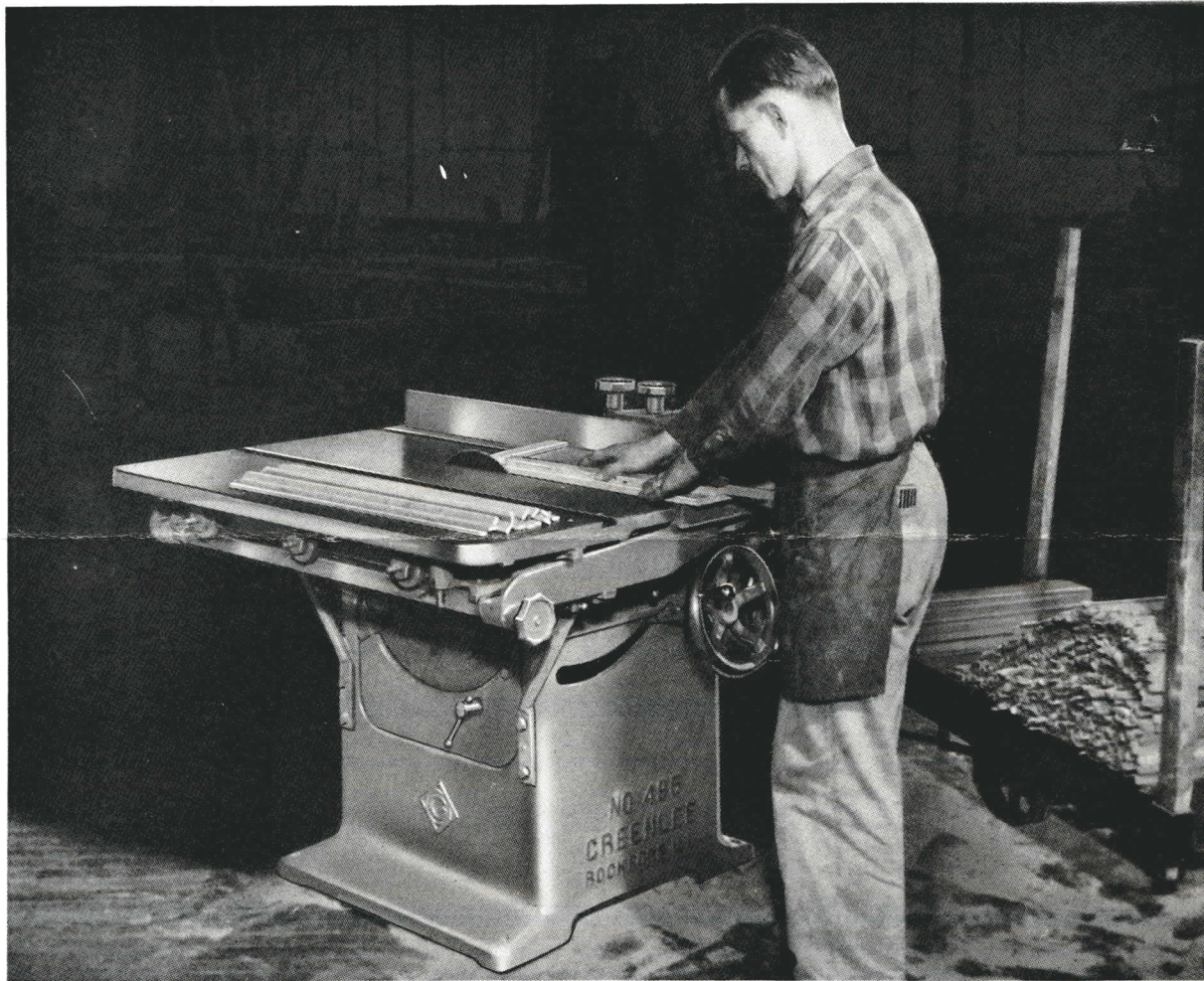


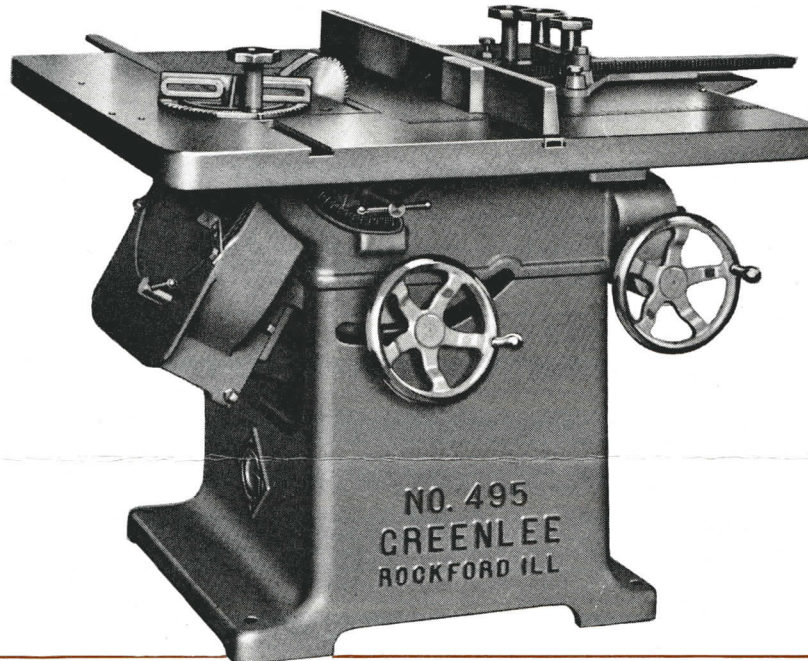


NO. 495 ★

**TILTING-ARBOR
VARIETY SAW**



GREENLEE BROS. & CO., ROCKFORD, ILLINOIS, U. S. A.



GREENLEE NO. 495 TILTING-ARBOR VARIETY SAW

Greenlee No. 495 Tilting-Arbor Variety Saws are correctly designed, precisely constructed machines possessing ideal features which recommend them for use in any class of shop. The tilting-arbor arrangement permits the table to remain in a horizontal position at all times and at the same convenient height for greatest operating efficiency. Since the built-in motor tilts, raises, and lowers with the blade as a unit, all belts and gearing are eliminated... the direct-drive providing maximum motor efficiency at a constant, reliable saw speed. This arrangement also permits a more rigid table mounting, allowing it to be bolted directly to the heavy saw base.

Greenlee Tilting-Arbor Saws are built with two styles of saw tables. The standard No. 495 has a one-piece fixed table suitable for general variety sawing. The No. 495-S has a roller-mounted, movable table section to the left of the saw blade which assures greater efficiency when cutting-off, dadoing, etc.

FRAME CONSTRUCTION

The frame consists of a heavy cast-iron base to which is bolted the top section supporting the arbor cradle. Its unusual sturdiness and rigidity insure smooth, efficient operation. The base design provides perfect stability, yet allows the operator ample foot room regardless of the position in which he is work-

ing... an especially advantageous feature from the standpoint of safety and efficiency.

A built-in, telescopic sawdust pipe, terminating in a stationary outlet at the rear of the machine base, provides a convenient connection to the exhaust system. This handy arrangement reduces installation cost by eliminating the need for flexible joints. The piping can be passed easily through the floor at the base of the saw, or arranged to go straight up for direct connection to an overhead exhaust system.

ARBOR CARRIAGE CRADLE

The arbor carriage cradle is mounted in the top section of the base on two heavy circular segments, one on each side, which are fitted into corresponding taper-grooved ways. Provisions are included for taking up the taper-grooved ways to compensate for wear, insuring an accurately aligned cradle at all times. Both circular segments have teeth accurately machined in their lower surfaces to engage two worm gears mounted on shafts and connected through enclosed spiral-cut gears. Movement of the cradle is controlled through a convenient handwheel located at the front of the machine... a quick and accurate means of tilting the carriage to any angle up to 45 degrees for bevel sawing.

Since both sides of the cradle are positively engaged by the tilting mechanism, any tendency toward twisting or springing is eliminated. Once the desired adjustment is made, a positive lock holds the carriage rigidly in place.

ARBOR CARRIAGE

Mounted on adjustable gibbed ways on the cradle, the arbor carriage adjusts vertically over a range of $3\frac{3}{4}$ " by means of spiral-cut gears, an Acme-thread screw, and a handwheel conveniently located at the front of the machine. Adjustments are easily and quickly made and rigidly held during operation by a positive lock. The rugged construction of carriage and cradle provide the firm mounting so essential for maintaining accuracy in the high-speed arbor.

MICROMETER DIAL

Absolute accuracy in setting the tilting arbor is assured through the use of a micrometer dial located at the right-hand side of the machine. Each calibration on the dial represents $\frac{1}{12}$ of a degree. Precise fractional settings are rapidly and easily made without the usual cut-and-try methods.

SAW ARBOR

To assure continued accuracy and long life, the arbors are equipped with precision ball bearings. The arbor and bearings are subjected to an exacting test-run, during which the arbor is finely balanced to eliminate vibration. Lubrication of the arbor bearings in the machine is accomplished through the use of a high-pressure grease gun.

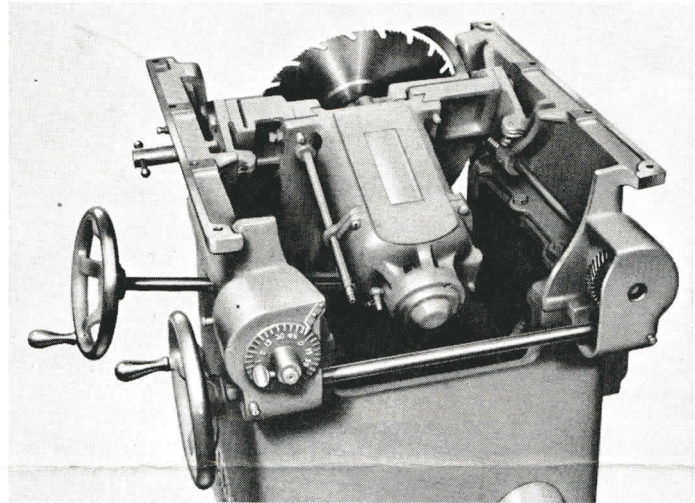
The arbor is regularly reduced to $1\frac{1}{4}$ " diameter for the blade, with a 2" space between the nut and fixed collar for wide heads. Other arbor diameters can be furnished upon request. Special length arbors for 3" and 4" wide heads are also available. Arbor screw extension sleeves or extended detachable arbor ends for dado heads can be furnished. The arbor ends can be of any practical diameter or length, and are applied in the same manner as Greenlee detachable shaper spindle tops.

The saw blade runs in a cast-iron hood which is furnished with a removable cover for convenient access to the saw blade. An arbor locking wrench is provided for changing blades and heads.

TABLE

The table on the No. 495 Variety Saw is a one-piece, gray-iron casting, rigidly reinforced with heavy ribs and flanges to prevent warping, and accurately machined to form a flat, true surface. It is 44" wide (50" with gauge extension), 40" deep, and $34\frac{1}{2}$ " high. The top is graduated for accurately measuring ripping widths. Plain or T-shaped slots can be furnished for the cut-off gauges. A removable cast-iron well-hole plate entirely surrounds the saw blade, and is readily replaced by one made of wood when desirable.

Extension brackets for ripping widths up to 36" or 42", using the side-mounted ripping gauge, can be



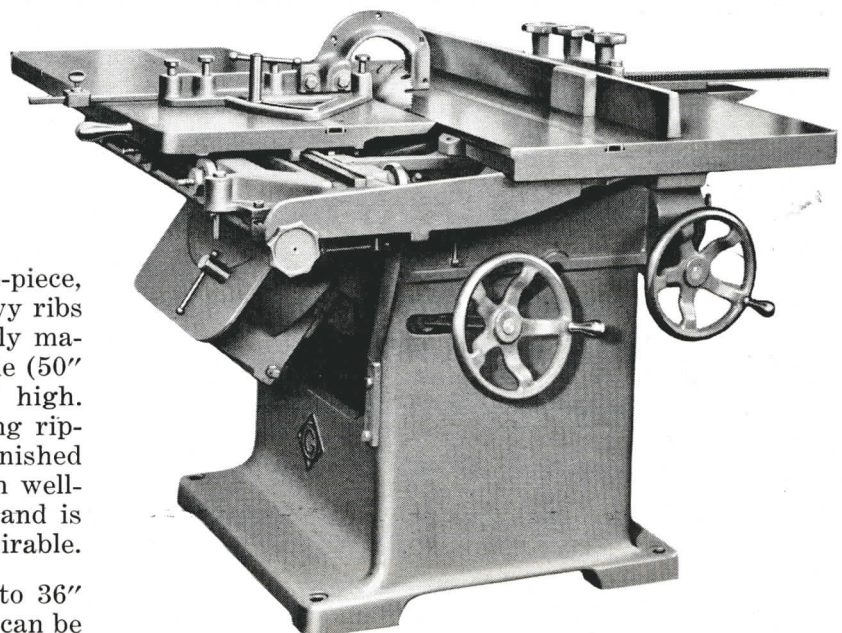
View showing saw arbor with built-in motor, and the cradle-tilting mechanism. Note the micrometer dial, which has $\frac{1}{12}$ degree graduations for accurate arbor tilting.

furnished at extra cost. Front and rear table extensions are available for increased cross-cutting range.

The No. 495-S model has a 47" wide table (53" with gauge extension). A 20" wide movable section to the left of the saw blade has sufficient travel to cut 1" x 32" wide stock with a 14" saw. This section rolls easily on six 3" diameter rollers equipped with dust-proof, grease-lubricated roller bearings. A rack and pinion arrangement opens the table to $5\frac{1}{2}$ " to put on heads or to insert a wood section for dadoing.

This type of table, with its complement of gauges, is ideal for fast, accurate work in any shop.

The No. 495-S machine is equipped with a roller-mounted table section as shown below. A locking pin holds this section in position for use as a fixed-table saw.





The double-faced, front-mounted ripping gauge shown above is optional on the 495, and recommended where set-ups require frequent changing from one side of the blade to the other.

GAUGES

Side-mounted ripping gauges with rack and pinion adjustment are regularly furnished. They can be provided with micrometer screw adjustment for precision ripping when specified, and can also be furnished to handle bevel ripping operations.

A double-faced, front-mounted ripping gauge can be substituted for the side-mounted gauge, and is recommended where frequent changes are made for right or left-hand sawing.

T-slots are regularly provided for the cut-off gauges, although plain slots can be furnished upon request. Cut-off gauges are 2" high, 10" long, and swivel to 80° either way. A 30" removable hardwood extension is furnished with each gauge.

The 495-S machine includes a yoke-type universal cut-off and miter gauge. It is 2" high at the lowest part, 6½" high at the saw, 15" long, and furnished

with 18" and 36" stop rods. It is drilled for attaching a wood facing through which the saw or head can cut the slot required for maximum support.

ELECTRICAL EQUIPMENT

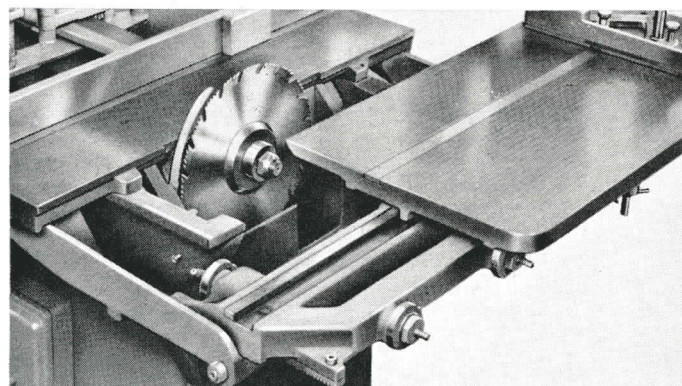
The motors on these saws are 5-H.P., 3600 R.P.M., alternating type for 220 or 440-volt, 2 or 3-phase, 50 or 60-cycle current. They are built directly on the saw arbor, and are totally enclosed, dust-proof, and fan-cooled. Convenient pushbutton control is at the front of the machine. Overload relays are included, and all wiring, enclosed in armored cable, is placed inside the machine frame for maximum protection. Motors for other voltage specifications can be furnished.

SPECIFICATIONS

A 14" saw blade is standard, providing a projection of 3¾" with the arbor in a horizontal position. A 16" saw blade can be used if desired, and will project 4¾". With the 14" blade placed next to the fixed collar of the arbor, stock up to 2" can be cut with the arbor tilted to 45 degrees. The ripping width is 27" to the right and 13½" to the left of the saw when using the front-mounted double-faced gauge, or, 24" to the right and 12" to the left with the plain side-mounted gauge. Extension brackets for use with the side-mounted gauge can be furnished when required for ripping extra-wide stock.

Regular equipment consists of one plain side-mounted ripping gauge or the double-faced front-mounted gauge, two swivel cut-off gauges, two table filling strips, clearance block, well-hole plate, saw splitter, safety guard, two ½" saw arbor collars, built-in piping, and a 14" cut-off blade. The No. 495-S, in addition to the above, is also equipped with a yoke-type universal cut-off and miter gauge with 18" and 36" stop rods.

The 495-S sliding table section can be opened to 5-1/2" from the saw line to change saws and dado heads or to insert a wood section for dadoing.



DESCRIPTION	NO. 495	NO. 495-S
Table size.....	44" x 40"	47" x 40"
Table size with gauge extension.....	50" x 40"	53" x 40"
Table height.....	34½"	34½"
Distance from saw line to left edge of table.....	17"	20"
Tilting adjustment for arbor.....	45°	45°
Diameter of arbor at saw position.....	1¼"	1¼"
(Unless otherwise specified)		
Maximum saw projection with 14" blade.....	3¾"	3¾"
Maximum saw size.....	16"	16"
Diameter of outlet pipe.....	4"	4"
H.P. of built-in motor.....	5	5
R.P.M. of motor.....	3600	3600
Net weight in pounds.....	1650	1800
Weight in pounds boxed for export.....	2150	2300
Measure boxed for export (cu. ft.).....	58	65
Floor space required (includes table travel on 495-S).....	50" x 40"	53" x 74"
Code (with regular equipment).....	GEHYN	GELEM

GREENLEE BROS. & CO., ROCKFORD, ILLINOIS, U.S.A.

Machinery for Planing, Shaping, Tenoning, Mortising, Boring and Sawing

Tools for Mortising, Boring and Routing