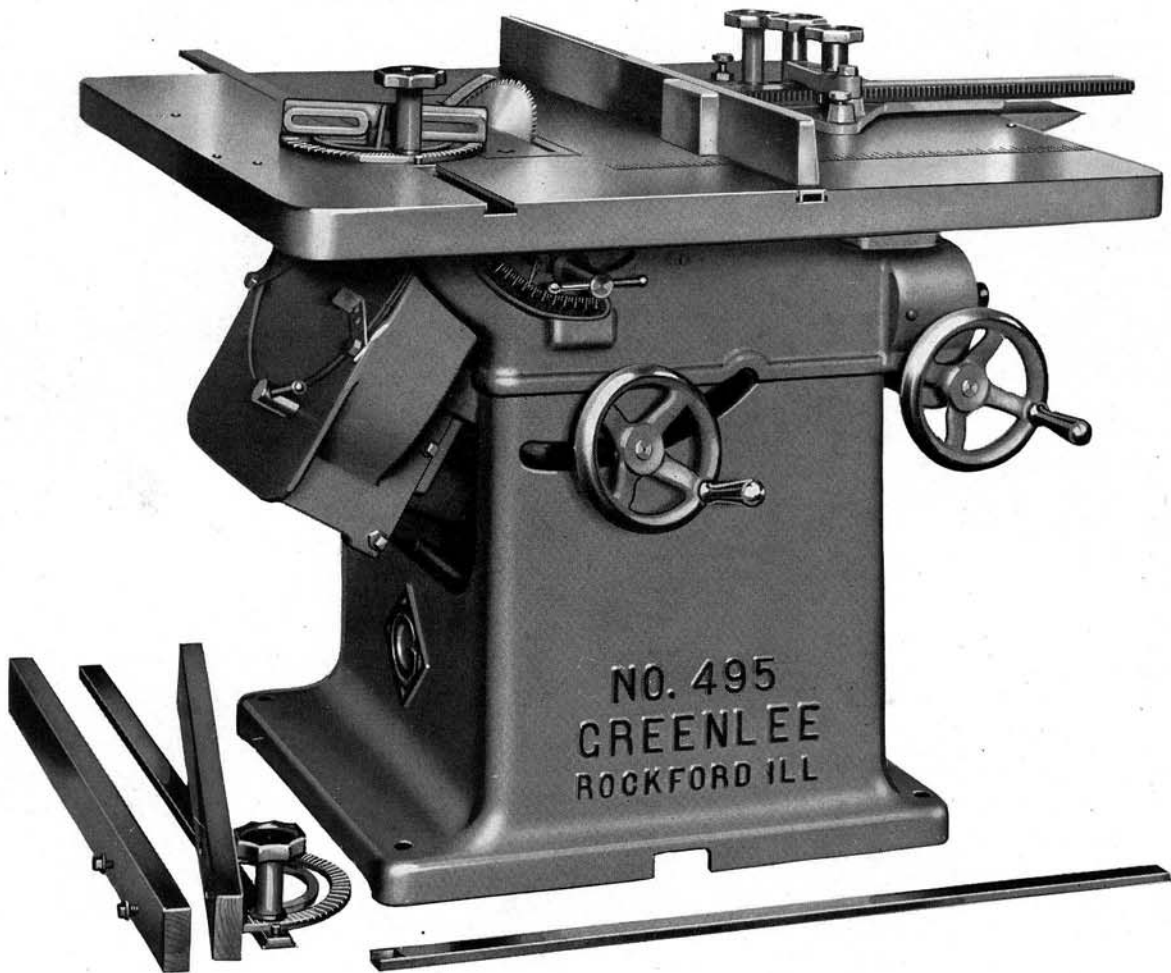


Greenlee

No. 495 TILTING-ARBOR VARIETY SAWS



{ **Greenlee** }
BROS. & CO. 
ROCKFORD, ILLINOIS, U.S.A.

Greenlee

No. 495 TILTING-ARBOR ELECTRIC VARIETY SAWS

THE GREENLEE No. 495 types of Tilting-Arbor Saw Benches are built with two styles of tables, as shown in the illustrations. The standard No. 495 has a one-piece, fixed table, suitable for general variety sawing, while the No. 495-S machine has a roller-mounted, sliding table section to the left of the saw blade to make for greater efficiency on long runs of cutting-off, dadoing, etc.

Both machines will handle ripping, cross-cutting, dadoing, mitering, etc., rapidly and accurately. Of great importance is the fact that the table is always horizontal and always at the same height. This is made possible because of the tilting arbor which has vertical adjustment and on which is mounted the built-in, 3600 R.P.M. motor.

In addition to permitting the arbor to be of the tilting type, the built-in motor eliminates all belts, reduces the required floor space, saves power, and provides a constant saw speed. The entire machine is correctly designed and accurately constructed, possessing every desirable feature for miscellaneous work in any class of shop.

Frame The frame consists of a sturdy base to which is firmly bolted the top section supporting the arbor carriage cradle, giving unusual rigidity. An important feature is the built-in telescopic saw dust pipe, terminating in a stationary outlet at the rear and providing for easy connection to the exhaust system, without the use of flexible joints. This is a very convenient arrangement and saves money, as the pipe can be passed through the floor at

the base of the machine or arranged to go straight up to the ceiling beside the saw for direct connection to the shavings removal system.

The base is designed for perfect stability, at the same time being enough smaller than the table to give ample foot room for the operator, regardless of the position in which he is working. This is important for safety and convenience.



No. 495 with Front-Mounted, Double-Faced Square Ripping Gauge.

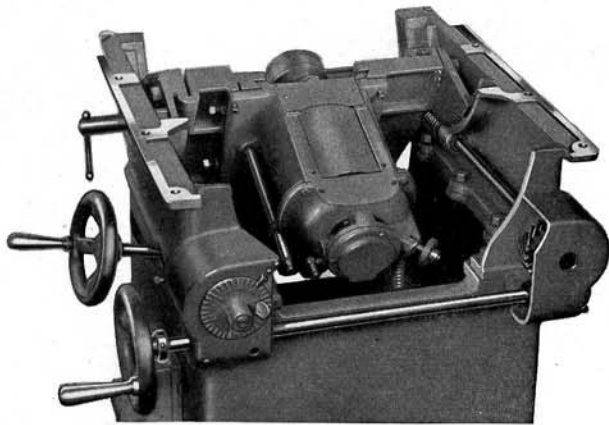
Arbor Carriage Cradle

The arbor carriage cradle is made with a segment at each end, and these are mounted in circular taper-grooved ways with provision for taking up wear. Both segments have a portion of a worm gear cut on the lower surface, and these mesh with two worms mounted on shafts which are connected through covered spiral gears. This connected adjustment, which is controlled by

a conveniently located handwheel at the front of the machine, eliminates all tendency toward twisting or springing and provides quick and easy tilting of the carriage to 45 degrees for bevel sawing. A positive lock is provided to hold the setting after the adjustment is made.

Arbor Carriage

The arbor carriage is mounted in adjustable gibbed ways on the cradle and has vertical adjustment of 3" by means of spiral gears, an Acme-thread screw and a handwheel at the front. This adjustment can be quickly and accurately made, and a positive lock holds the setting. The entire construction of carriage and cradle affords a rigid mounting for the arbor, this being essential for accuracy and speed.



Upper part of No. 495 with table removed. Note the arrangement for tilting the arbor, the graduated dial for accurate setting, and the convenient arbor lock for use in changing saw blades.

The Dial Micrometer

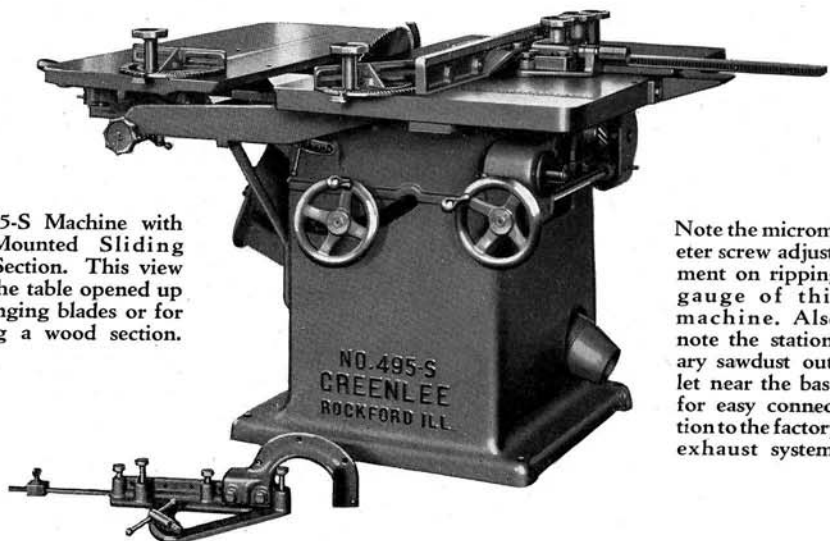
In order to secure absolute accuracy in tilting the saw arbor to the proper angle, a dial micrometer is provided, which is graduated to $\frac{1}{12}$ of a degree. This is a convenience in cutting such angles as $22\frac{1}{2}$ degrees, as it permits setting the arbor to the required fraction of a degree without the usual time-consuming, cut-and-try methods or guess work.

Saw Arbor

The saw arbor runs in selected, precision ball bearings in the carriage, which are lubricated by high-pressure grease gun. The arbor is regularly reduced to $1\frac{1}{4}$ inches for the blade and is fitted with two $\frac{1}{2}$ -inch filling collars, but other arbor diameters and lengths can be provided. Dado head extension sleeves and detachable ends can be furnished as required. The detachable arbor ends can be of any practical diameter or length and are applied the same as shaper spindle tops. The saw runs in a cast-iron hood having a detachable cover for removing the saw blade. A spring plunger lock is provided for the arbor for maximum convenience in removing saw blades or cutter heads.

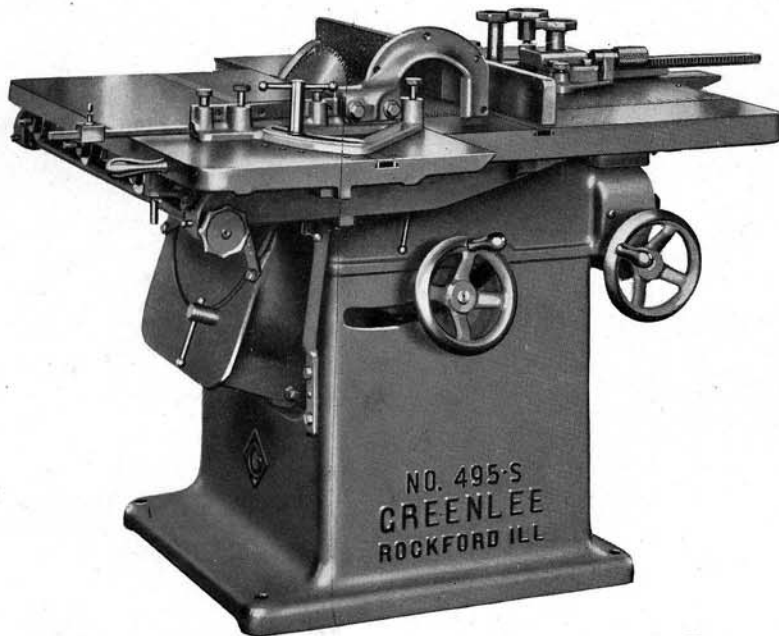
Table The table of the standard No. 495 is 44 inches wide, 40 inches deep and $34\frac{1}{2}$ inches high. The gauge extension increases the total width to 50 inches. It is rigidly constructed, finely finished and is always mounted in a stationary position. The top is graduated for ripping width, it can have plain or T-slots for the cut-off gauges, and is fitted with a removable well hole plate which entirely surrounds the saw slot. The standard well hole plate is of cast-iron, but a hardwood plate can be used and is regularly furnished on machines for automobile body work. Extension brackets, 16 inches long, attached to the side of the table to rip 36 inches in width with a plain side-mounted ripping gauge can be furnished at extra cost, and extensions can also be applied to the front of the stationary table to increase the range of cross cutting.

The No. 495-S machine has a 47-inch wide table, or 53 inches if the gauge extension is included. The roller-mounted sliding section to the left of the saw is 20 inches wide and has sufficient travel to cut $1'' \times 32''$ wide stock with a 14-inch saw blade. Rack and pinion adjustment is provided for opening up the table at the saw line to put on heads or to insert a wood section for use with dado heads. The sliding table rides on six 3-inch diameter rollers, which are mounted on dust-proof roller bearings. This arrangement provides for easy movement and accurate cutting. With its complement of gauges, this type of table fits the machine for fast and accurate work in any class of shop.



No. 495-S Machine with Roller-Mounted Sliding Table Section. This view shows the table opened up for changing blades or for inserting a wood section.

Note the micrometer screw adjustment on ripping gauge of this machine. Also note the stationary sawdust outlet near the base for easy connection to the factory exhaust system.



No. 495-S with Roller-Mounted Table Section. The Universal Cut-off and Miter Gauge is shown on the table.

Gauges The ripping gauge is regularly of the plain side-mounted type with an accurately fitted guide, and rack and pinion adjustment. It can be furnished as a bevel ripping gauge when required, and screw micrometer adjustment for width can be provided. Some prefer the double-faced, front-mounted gauge shown in one of the photographs. This can be used on either side of the saw on the stationary-table machine, and it provides for adjustment over practically the entire width of table.

The slide cut-off gauges are regularly carried in T-slots machined in the table, although plain slots can be provided when wanted. The gauges are 2 inches high, 10 inches long and swivel to 80 degrees each way. A 30-inch removable hardwood extension is furnished for each.

A universal cut-off and miter gauge is part of the equipment of the No. 495-S machine, as shown in the photograph above. It is 2 inches high at the low part, 6½ inches high at the saw, 15 inches long, and has two different-length stop rods. It is drilled to permit attaching a wood

facing, through which the saw or head cuts its own slot after necessary adjustments are made. This provides full support for stock being worked, regardless of its height.

Electrical Equipment The built-in, totally-enclosed, dust-proof, fan-cooled motor, mounted on the saw arbor, is a 5-H.P., 3600 R.P.M., alternating type for 220 or 440-volt, 2 or 3-phase, 60-cycle current. Convenient push-button control is at the front of the machine. Protective relays are included, and all wiring is enclosed within the frame. Motors for other current specifications can be furnished on special order.

Specifications

Range The range is for a 16-inch saw blade with a maximum projection of 4¾ inches with the arbor horizontal, but a 14-inch blade is standard and provides a projection of 3¾ inches. With a 14-inch saw next to the fixed collar of the regular arbor, 2¼-inch thick stock can be cut with the arbor tilted to 45 degrees. The ripping width is 27 inches to the right and 13½ inches to the left of the saw with the front-mounted, double-faced gauge, or 24 inches to the right and 12 inches to the left with the plain side-mounted gauge. Extension brackets to increase the ripping width with the side-mounted gauges can be furnished when required for extra wide stock.

Equipment The equipment regularly consists of one plain side-mounted ripping gauge, two swivel cut-off gauges, two filling strips, one clearance block, a well hole plate, a saw splitter, a safety saw guard, two ½-inch saw arbor collars, built-in piping, and one 14-inch cut-off saw blade. In addition to this, the No. 495-S is equipped with the universal cut-off and miter gauge, having two stop rods. The other styles of ripping gauges will be furnished when specified.

	495	495-S
Table size.....	44"x 40"	47"x 40"
Table size including 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 where saw goes on (Unless otherwise specified).....	1¼"	1¼"
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.....	1400	1550
Weight in pounds boxed for export.....	1825	2000
Measure in cu. ft. boxed for export.....	56	65
Floor space (including 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, Mortising, Tenoning, Boring and Sawing
Tools for Mortising, Boring and Routing*