WALLACE

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No. 1 RADIAL SAW

WITH No. 3333 SHOP TABLE AND No. 3360 ROLLER EXTENSIONS

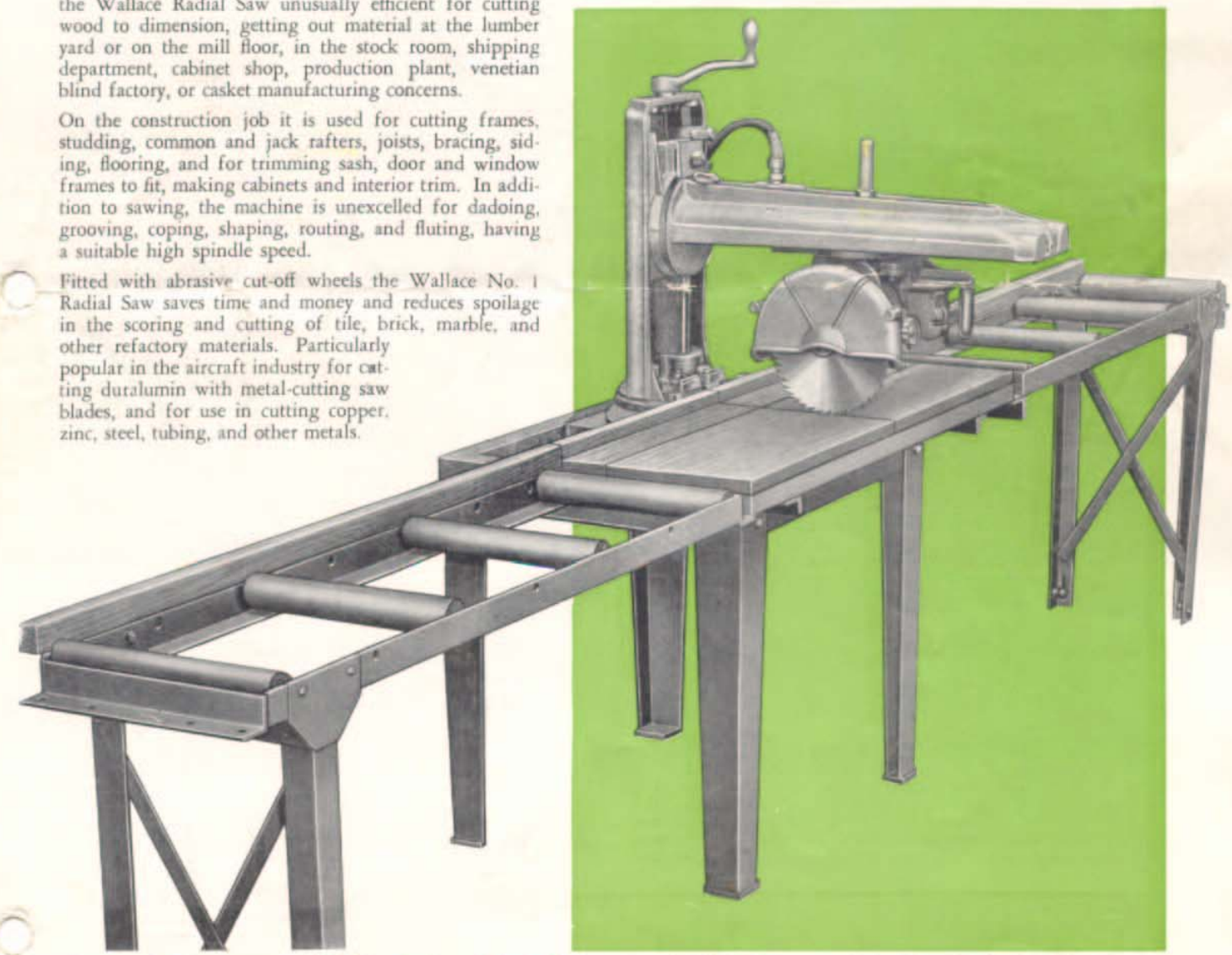
On the construction job, in the mill, lumber yard, production shop, cabinet shop, shipping department,—everywhere that speed, accuracy and power are major factors in profitable production, the Wallace No. 1 Radial Saw is leading the way to new money-making economies. An accurate, versatile, and powerful straightline cut-off saw, this high-speed machine is particularly effective for cutting long and heavy stock since it operates on the "move the saw instead of the material" principle. Easily portable, it can be taken any place where the desired work is to be performed.

WITH the Wallace No. 1 Radial Saw the stock is laid flat on the table, against the fence, while the saw is pulled or pushed through the stock in cross-cutting or angle-cutting operations. For square or bevel ripping the blade is locked into position the desired distance from the fence with the motor unit turned at right angles to the ordinary cross-cutting position. This makes the Radial Saw a space-saver in crowded shops, as it can be placed flat against the wall regardless of whether it is being used for cross-cutting jobs or ripping operations.

Its construction and lightning-fast adjustments make the Wallace Radial Saw unusually efficient for cutting wood to dimension, getting out material at the lumber yard or on the mill floor, in the stock room, shipping department, cabinet shop, production plant, venetian blind factory, or casket manufacturing concerns.

On the construction job it is used for cutting frames, studding, common and jack rafters, joists, bracing, siding, flooring, and for trimming sash, door and window frames to fit, making cabinets and interior trim. In addition to sawing, the machine is unexcelled for dadoing, grooving, coping, shaping, routing, and fluting, having a suitable high spindle speed.

Fitted with abrasive cut-off wheels the Wallace No. 1 Radial Saw saves time and money and reduces spoilage in the scoring and cutting of tile, brick, marble, and other refactory materials. Particularly popular in the aircraft industry for cutting duralumin with metal-cutting saw blades, and for use in cutting copper, zinc, steel, tubing, and other metals.



J. D. WALLACE AND COMPANY

134-158 S. CALIFORNIA AVE. CHICAGO, ILLINOIS

CAPACITY —

The Wallace No. 1 Radial Saw with 8" blade cuts material 2½" thick,—rips up to 24" wide. Saw travels 19½" for crosscut work. The 1½ and 2 H.P. models with 10" blades easily handle material 3½" thick. Eleven inch blades give 4" cutting depth. Spindle takes dados up to 1" wide and special arbor is available for dado and gang saws up to 1½" in width.

MOTORS —

The Wallace No. 1 Radial Saw is powered with General Electric motors of the following ratings:

1 H.P., 1-phase, A.C. and D.C., Universal type.
1½ H.P., 1-phase, A.C. and D.C., Universal type.
1 H.P., 1-phase, A.C., capacitor type.
2 H.P., 1-phase, A.C., capacitor type.
1 H.P., 3-phase, A.C., squirrel-cage type.
2 H.P., 3-phase, A.C., squirrel-cage type.

SWITCH —

A heavy double pole 30 ampere toggle switch is totally enclosed in a metal box, which protects it from injury, dust and accidental starting. The switch box, mounted on the radial arm of the machine, contains a padlock holder and a socket for plugging in an electric light.

GEARED MOTOR DRIVE —

The saw spindle of the No. 1 Radial Saw is driven at a speed of 4900 r.p.m. thru gears from the motor,— an efficient drive transmitting every ounce of power to the saw teeth. This construction brings the spindle close to the edge of the motor housing, making possible a cut of 2½" with 8" diameter saw blades, up to 4" with 11" diameter saw blades. The high spindle speed insures fast, smooth sawing work — also clean routing and shaping work. J. D. Wallace & Company originated and developed this drive and have been manufacturing it for over twenty-three years.

GEARS —

Both gear and pinion in this drive are made of chrome molybdenum heat-treated alloy steel, with accurately cut spiral teeth. This steel is selected for its proven ability to withstand abrasive wear and shock loads, and running in a bath of oil, the gears are wear-proof and silent for the life of the machine.

BEARINGS —

Large precision type ball bearings are used on both the motor and spindle of this machine. Spindle bearings and front motor bearings are lubricated by an oil splash system in the gear chamber. Rear motor bearings in the capacitor and three-phase machines are sealed with grease and require no attention for the lifetime of the machine. Universal motors fitted with suitable oil cup — see instruction leaflet.

OIL SEAL —

Oil is kept in the oil chamber, off the work, and out of the motor, by two oil seals exclusively used on Wallace machines. They are constructed to retain the oil permanently under all load and temperature conditions without necessity of adjustment by the operator.

SAW SPINDLE —

The spindle is made of chrome-nickel alloy steel, hardened and ground to close limits. It is ⅝" in diameter at the saw end — ample in size to carry the heaviest dado and cope heads that can be used on the machine.

BLADES —

Eight inch diameter blades are standard equipment on the 1 H.P. models, cutting 2½" in depth. Ten inch saws are standard on the 1½ and 2 H.P. models, cutting 3½" in depth. Larger blades, cutting proportionately thicker material, may be used with due respect to the limitations of available power. Blades are accurately fitted, ground, tensioned, and balanced to run without vibration. Expansion slots in these blades reduce saw noise and positively prevent burning and cracks.

VERTICAL COLUMN —

This column is mounted on an accurately machined ring base 10" in diameter. The central screw affords 8" vertical adjustment of the saw blade, all locations being indicated by an accurately divided scale. Column rotates 360° right or left for angle cutting, and is locked at 0°, 22½°, 30°, 45°, 60°, and 90° with spring lock pin and wrench. All other angles are indicated with an accurately divided degree scale and indicator.

RADIAL ARM —

The Radial Arm rotates 360° on an accurately machined turntable 10" in diameter, which slides up and down on heavy steel rods in the vertical column. It is quickly and easily set at any angle for bevel cutting and compound angles, and is locked at 0°, 22½°, 30°, 45°, 60°, and 90° (both right and left hand) with a spring lock pin and wrench. All other angles are indicated with an accurately divided degree scale and indicator.

MOTOR UNIT ADJUSTMENT—

The geared motor drive unit is mounted on a 6" diameter turn-table sliding on two heavy steel rods in the radial arm. Rotating 360°, it can be locked in any position on the turntable with a wrench on the top pull handle. An automatic lock pin locates the drive unit at 0° and 90° in either direction for cross-cutting and ripping respectively. For ripping, a lock screw holds the carriage at any desired position on the rods — the width of rip is accurately indicated on the stainless steel scale mounted on the radial arm. Two handles are provided to pull the saw through the work, one above and the other below the radial arm.

GUARDS —

Standard guards are provided to cover top parts of saws and dados up to 9" in diameter and 1" wide on 1 H.P. models, and up to 11" in diameter and 1" wide on 1½ and 2 H.P. models. These guards are mounted on the spindle nose, are separable for easy saw removal, and adjustable to eliminate saw dust throwing on all types of cutting.

CONSTRUCTION —

All rotating parts are balanced to eliminate vibration. All machine fits are held to close limits. Best materials obtainable are used. All materials and machine work are rigorously inspected.

STANDARD EQUIPMENT —

The Wallace No. 1 Radial Saw is furnished with ring base for fastening either to the owner's bench or to one of the shop tables or portable tables as described on the opposite page. Equipment includes built-in motor drive unit, switch, one combination tooth saw blade (8" diameter on 1 H.P. models; 10" diameter on 1½ and 2 H.P. models), suitable guard, and wrenches for adjusting and locking blades and columns. Single-phase machines are fitted with 10 foot of heavy rubber covered cord with ground connection and armored plug; three-phase machines have BX 3-conductor steel armored cables.

EXTRA EQUIPMENT

Shop table, roller extensions, skid table, angulator, electric light, dado cutters, router bits, adapters, etc., are available for this machine at extra prices. Some of these are shown and listed on the adjoining page — others are illustrated and described on separate leaflets, available upon request. Stock accessories are listed and priced in separate Supply Bulletin.

SPECIFICATIONS —

Depth of Cut with 8" Blade	2½"
Depth of Cut with 10" Blade	3½"
Depth of Cut with 11" Blade	4"
Maximum Saw Travel	19½"
Ripping Capacity with Standard Tables	24"
Diameter of Saw Arbor at Blade	⅝"
Maximum Width of Dado Cutters	1½"
Vertical Adjustment of Saw	8"
Speed of Saw Blade, R.P.M.	4900
Height of Tables recommended	32½"

TABLE OF WEIGHTS

	Code Word	Net Weight	Domestic Shipment	Foreign Shipment
No. 1 Radial Saw	WOMAC	222 lbs.	265 lbs.	340 lbs. 8 cu. ft.
No. 3370 Skid Table	WOSKI	60 lbs.	85 lbs.	125 lbs. 6 cu. ft.
No. 3333 Shop Table	WOSHO	130 lbs.	165 lbs.	200 lbs. 6 cu. ft.
No. 3360 Extensions	WOEXT	75 lbs.	110 lbs.	175 lbs. 6 cut. ft.

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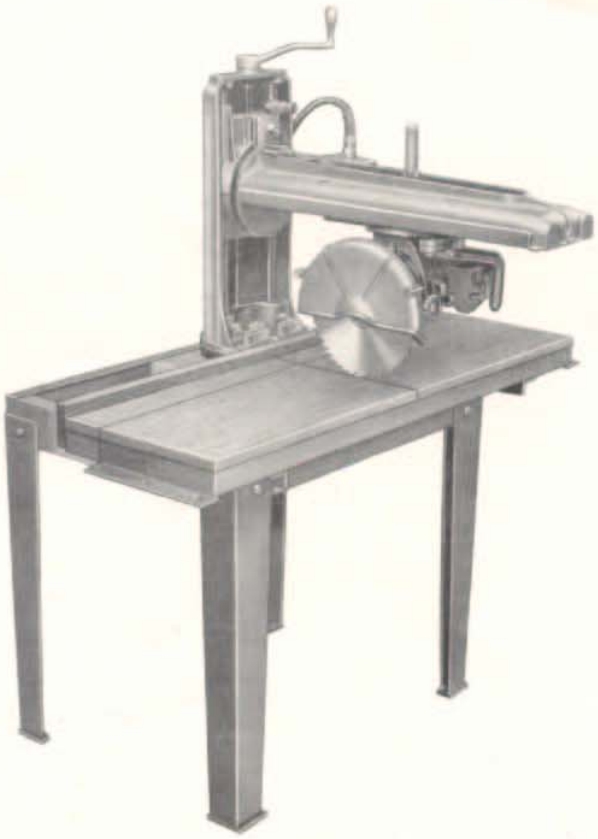


No. 3333 SHOP TABLE—

The illustration above shows the No. 3333 Shop Table for the Wallace No. 1 Radial Saw designed to facilitate not only sawing operations but also the many special jobs for which the Radial Saw is unexcelled.

The No. 3333 Shop Table is constructed with a welded channel section frame of pressed steel, to which four steel angle legs are bolted. Cast iron feet on the legs have slots for receiving bolts to fasten the stand to the shop floor.

Floor space required is 31" wide by 25" deep. The working surface of the shop table is 32½" from the floor and overhangs the frame, being 46" long and 14½" wide. The working surface is a five-ply birch-faced panel, fitted with adjusting screws for levelling it off with the radial arm.

The shop table includes a reversible fence block which is held in position with wooden wedges. The illustration shows the fence in the backward position; for pull cuts the fence block is reversed so that the saw blade in its rear-most position is entirely behind the fence. This fence block is also removable for the insertion of special fixtures or the standard No. 3330 Universal Worktable, described on a separate leaflet.

No. 3360 ROLLER EXTENSIONS—

The illustration on the front page of this folder shows two No. 3360 Roller Extensions fastened to the No. 3333 Shop Table — one on each side.

These extensions are of welded angle-iron construction fitted with four rollers, each 14" long and 2" in diameter. The rollers operate on ball bearings. Each roller extension unit is 48" long, and successive units may be placed end to end to provide an extension table of any desired length.

At the end of each roller extension is a steel leg with adjustable feet to compensate for any irregularity of the floor. Each extension includes a fence made of selected birch which is alignable with the fence on the No. 3333 Shop Table.

No. 3330 UNIVERSAL WORKTABLE—

The Wallace No. 3330 Universal Worktable is another exclusive Wallace accessory for the No. 1 Radial Saw. A worktable of universal application on shaping, routing, rabbetting, grooving, jointing, and an unlimited variety of other milling operations. This device is fully described in separate bulletin No. 3330.

No. 4660 ANGULATOR—

The Wallace No. 4660 Angulator, an exclusive Wallace accessory for the Wallace No. 1 Radial Saw, permits the cutting of any two different angles on a production basis. The Angulator includes a device whereby builders may use a standard carpenter's square to quickly set up the Radial Saw to the various angles used in framing a roof of any pitch.

Rafters are cut complete with only one handling, and without marking them off. A complete description of this device is found on separate bulletin No. 3370.

ELECTRIC LIGHT FIXTURE —

The No. 3457 Adjustable Electric Light Fixture available for the No. 1 Radial Saw includes a flexible arm 18" long, metal shade reflector, 110 or 220 volt lamp, cord and separable plug for connection to the switch box, and a bracket for attaching the fixture to the machine. It is adjustable to illuminate the work under all conditions. It is more than a convenience,— it is a positive and valuable help to the safe and efficient operation of the machine.

SAW BLADES —

Saw blades of all types in diameters from 8" to 11" are available for use with the No. 1 Radial Saw. These blades are made of first quality steel, properly tensioned for true-running at high speed. Complete specifications and prices of these saw blades are found in the separate Supply Bulletin.

DADO HEADS —

Dado heads 6" in diameter by ⅜" wide for cutting up to 1½" deep, and 7½" diameter by 15/16" wide for cutting up to 2¼" deep, are listed and described in the separate Supply Bulletin. Extra cutters are available to increase the width of these dado heads within the capacity of the spindle.

COPE HEADS —

Three types of steel cope heads are available for the attachment of standard and special cope head knives in great variety, fitting the Wallace No. 1 Radial Saw for shaping and moulding operations. The high spindle speed of the Radial Saw insures a smooth, clean cut. Full details of these heads are found in the separate Supply Bulletin and the No. 3330 Bulletin.

ROUTER ADAPTER —

A minimum spindle speed of 4900 R.P.M. makes the Wallace No. 1 Radial Saw ideally suited for many routing operations. Adapters and routing bits are illustrated and described in the separate Supply Bulletin and the No. 3330 Bulletin.

ABRASIVE CUT-OFF WHEELS —

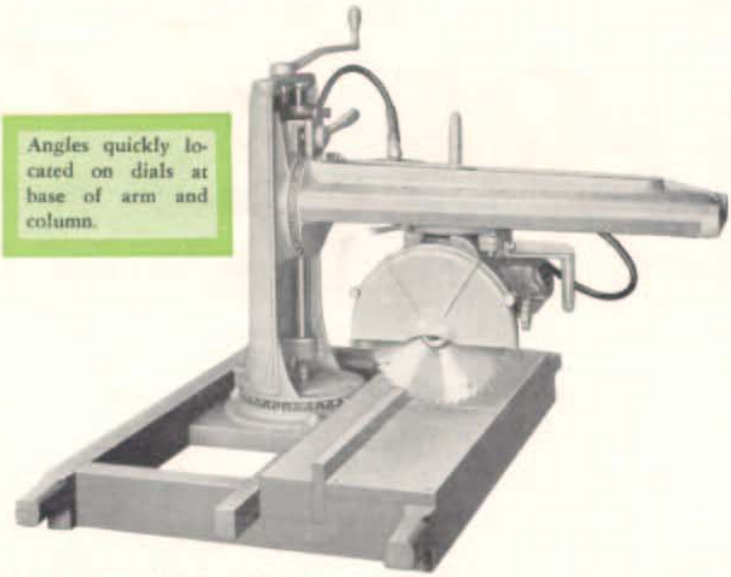
The No. 1 Radial Saw is perfectly adapted for cutting and scoring tile, brick, steel, copper, duralumin, and other refractory materials. Wheels for this service are known as silicon-carbide cut-off wheels. The No. 1 Radial Saw takes wheels 8" to 10" in diameter, 3/32" to ⅛" thick, with ⅞" holes. A special type of wheel is required for each different type of material. We stock a representative supply of wheels as listed in the separate Supply Bulletin. Other wheels are stocked in great variety by leading wheel manufacturers. We solicit your inquiries for the solution of your particular cutting problems.

No. 3370 SKID TABLE—

The No. 3370 Skid Table illustrated on the reverse side of this sheet is a husky, convenient, and inexpensive portable carrier for the No. 1 Radial Saw. Made of selected birch, it is 25" wide and 48" long. It is framed around a heavy steel channel to which the machine is bolted. The table portion, on which the stock is laid, is 10" wide by 33" long. This table is fitted with a reversible fence block which permits the insertion of special fixtures, longer worktables, and the No. 3330 Universal Worktable.

The Skid Table is recommended for contractor's field service. It is light in weight, and with the machine mounted on it can easily be carried by two men.

Quick, Easy Adjustments . . . .



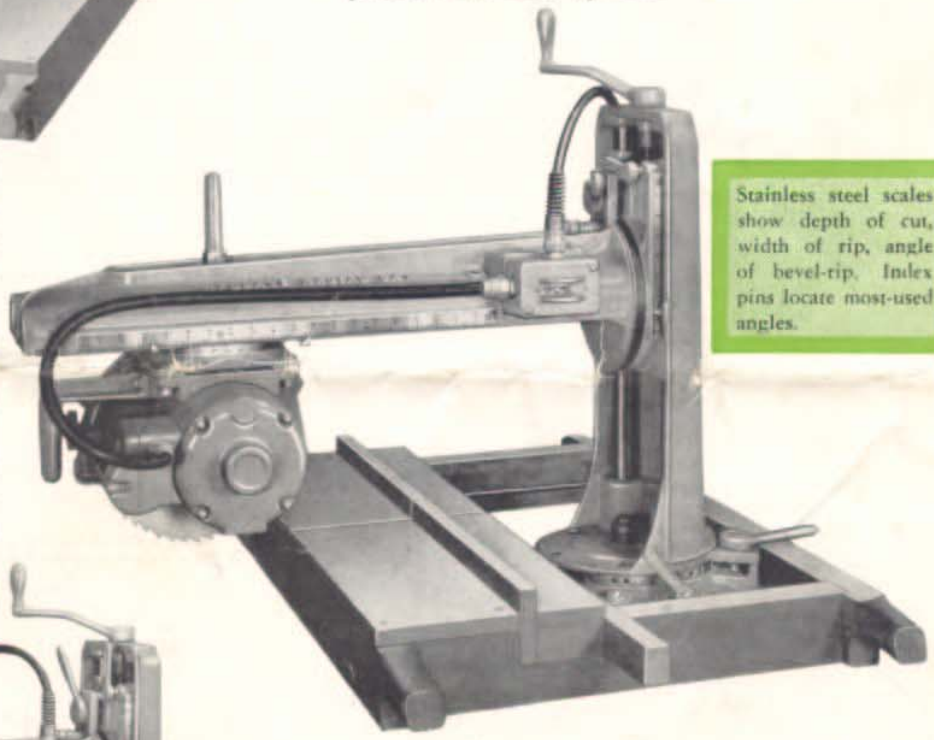
Angles quickly located on dials at base of arm and column.

Graduated Dials and Clearly Marked Scales Give You 100% Control At All Times

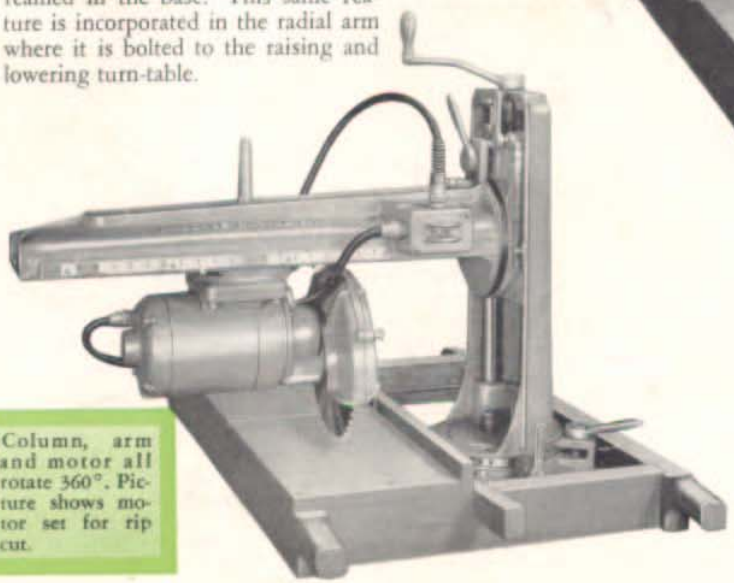
Quick, positive adjustments,—these are features which have made the Wallace No. 1 Radial Saw the "most-used" machine with thousands of customers. In the illustration at the left can be seen the accurately graduated dials at the bases of the column and radial arm for making every kind of mitre and compound mitre cut. Lock stud and wrench, above the arm and to right of column, securely holds these adjustments in any desired position. Radial arm is bolted on swiveling stud to the raising and lowering turn-table which is mounted on ground rods in column, and actuated by large wrench at top. Note wrench on motor drive unit, just under the radial arm, which locks motor firmly in any position when doing rip work.

The picture to the right shows the convenient, easy-to-read scales on the column to show the depth of cut, and on the radial arm to show the width of rip. On the direct-connected motor unit, just under the radial arm, is an accurately-etched degree scale with pointers to show the angle on bevel-rip cuts.

For simple mitre cuts, the column rotates on a ball thrust bearing at the base. Most-used angles, 0°, 22½°, 30°, 45°, 60°, right or left, are located quickly by the lock stop pin which centers in holes accurately reamed in the base. This same feature is incorporated in the radial arm where it is bolted to the raising and lowering turn-table.



Stainless steel scales show depth of cut, width of rip, angle of bevel-rip. Index pins locate most-used angles.



Column, arm and motor all rotate 360°. Picture shows motor set for rip cut.

The motor drive unit of the Wallace No. 1 Radial Saw is mounted on the ground rods in the radial arm by means of a turn-table, permitting the motor to be rotated 90° right or left so that the blade is parallel to the fence for ripping work. Lock stop pin locates these positions accurately, and wrench under radial arm locks motor securely at any desired distance from fence. Width of rip is gauged by long scale on radial arm which has two sets of readings. When blade is set close to fence for ripping from right side of machine, the right hand pointer and lower set of readings is used. When ripping from left side, with blade away from fence, use left hand pointer and upper readings.

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