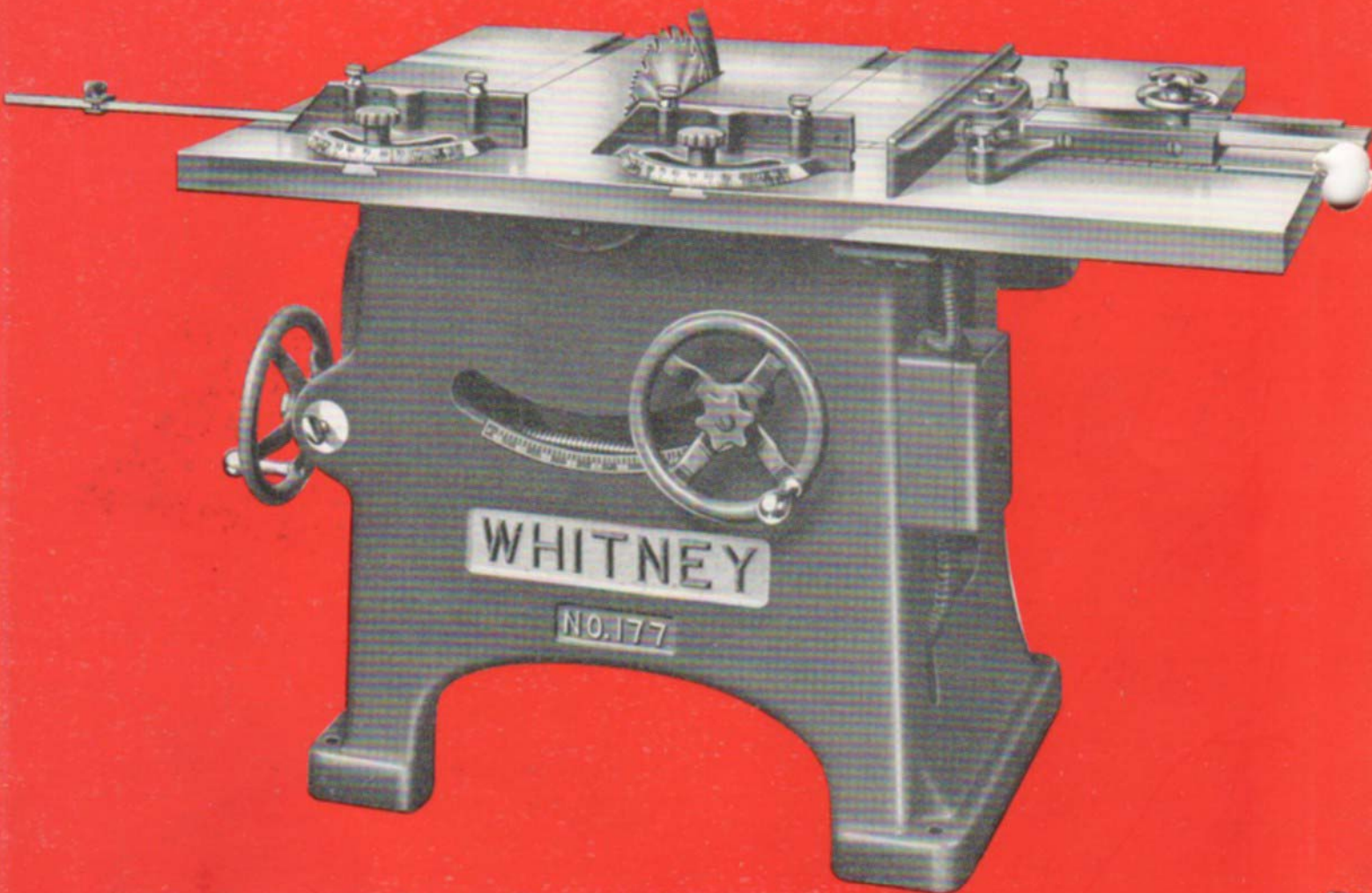


WHITNEY

No. 177

Variety
SAW BENCH

BAXTER D. WHITNEY & SON, INC.
WINCHENDON, MASSACHUSETTS, U. S. A.



W **HITNEY NO. 177 VARIETY SAW**

TILTING ARBOR • DIRECT MOTOR DRIVEN

The Whitney No. 177 Tilting Arbor Variety Saw is designed and built for all-around accurate variety sawing at higher rates of production than usually expected from a Saw of this type.

The No. 177 saves the operator's time thru extra convenience, quicker set-ups and ease of operation.

SWING YOKE

The swing yoke which supports the saw arbor and headblock is designed for strength and balance and is accurately machined to standard gages. It is cradled in gibbed bearings on either side of the saw arbor for minimizing wear and for permanent alignment of the saw arbor.

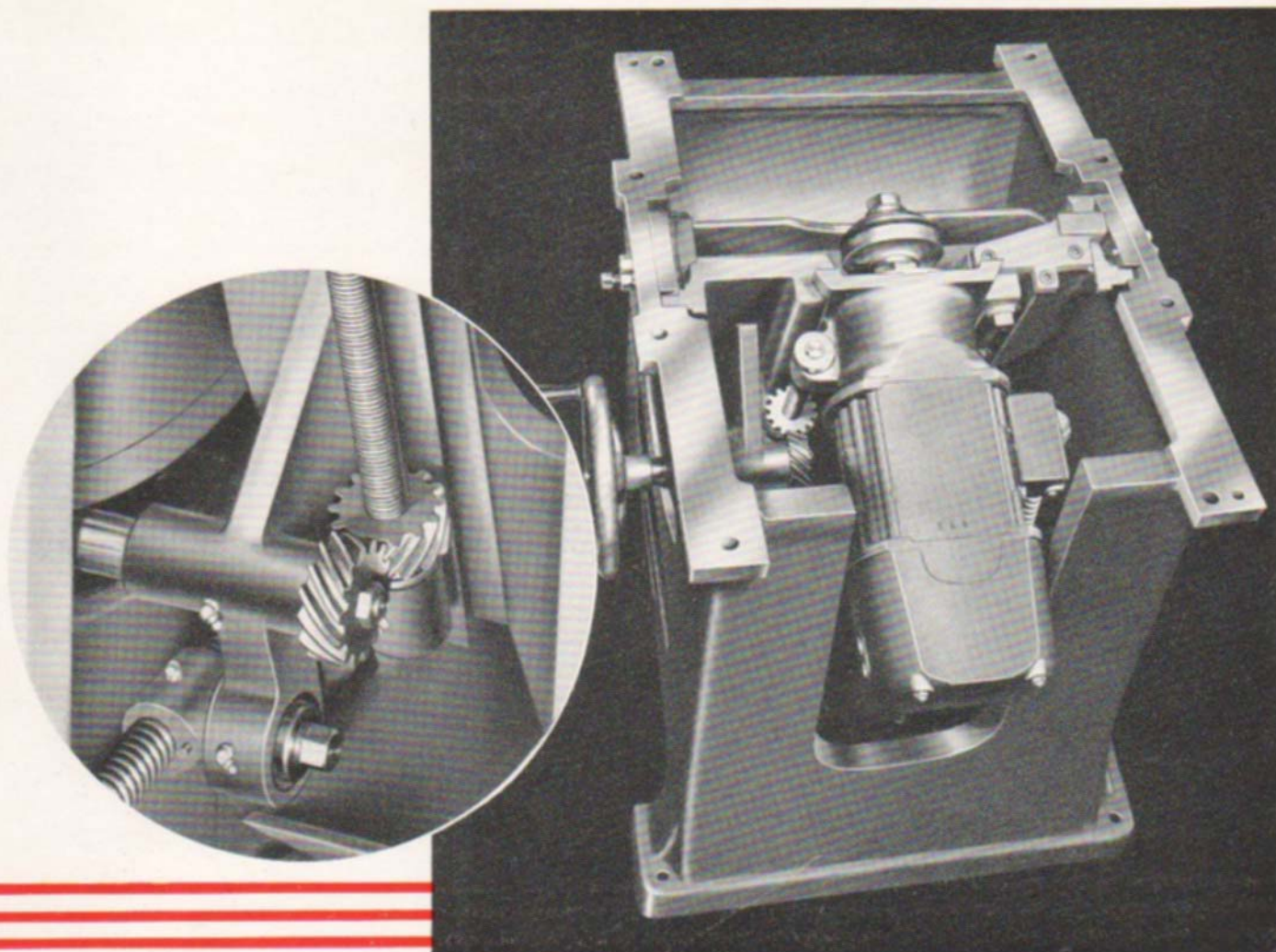
The yoke is tilted for bevel sawing by means of an accurately machined screw equipped with ball thrust bearing and operated by a 10-inch handwheel at the side of the machine. A pointer indicates the exact angle at which the saw is tilted. A convenient locking device maintains the angle.

BASE

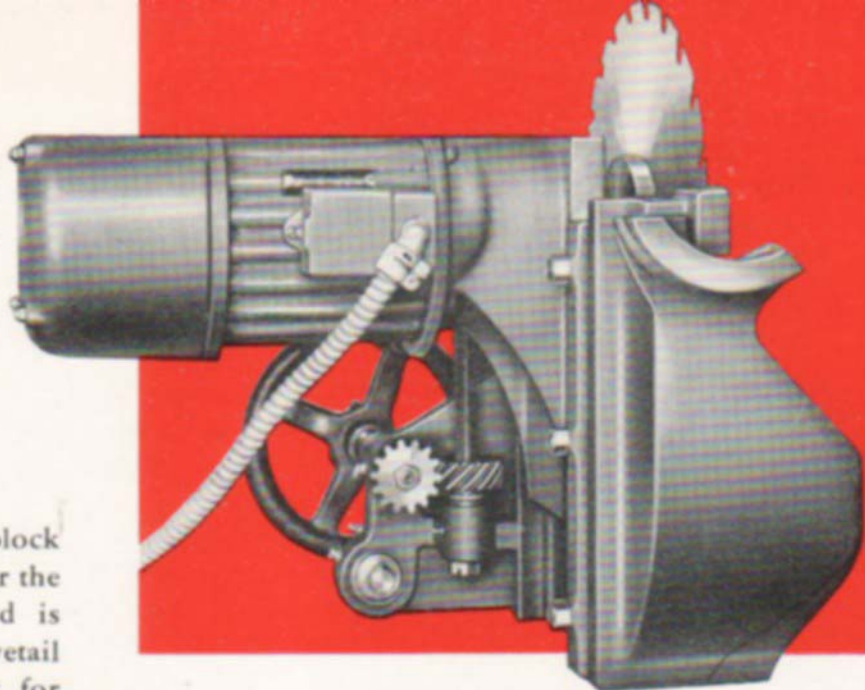
Pedestal type, heavy duty, cast in one piece for rigidity. The twin segment bearings which cradle the swing yoke and arbor are machined directly in the base for maintaining accuracy and alignment and for ease of operating tilt mechanism. The base is arched at the front for the operator's convenience.

Top View of No. 177 Saw, table removed, showing construction of base and twin mounting supports for swing yoke.

Insert shows elevating screw, spiral gears and ball thrust bearing, also part of tilting mechanism screw.



HEADBLOCK — Showing mounting of heavy duty, 5 HP motor and support of headblock in swing yoke, also elevating screw mechanism.



HEADBLOCK

The saw arbor housing or headblock furnishes a substantial support for the arbor assembly and motor and is raised and lowered in a long dovetail slide which has an adjustment for taking up wear. The elevating screw is accurately machined and equipped with cut spiral gears and thrust ball bearing mounted in dust-proof housing. It is operated by 10-inch handwheel at the front of the machine. A locking device on the wheel assures permanent positioning of the saw.

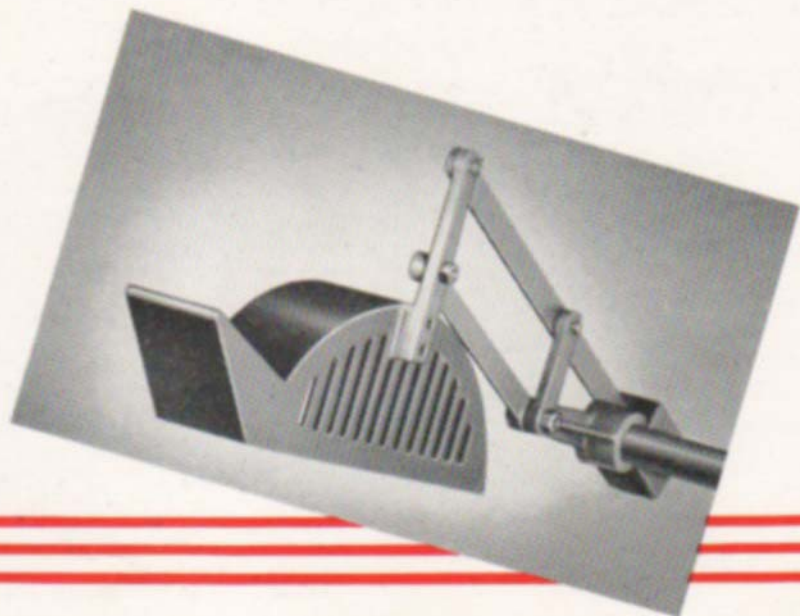
SAW ARBOR

The saw arbor is made from a special alloy steel, accurately machined, heat treated and ground to close tolerances. It is equipped with large size, heavy-duty, high-speed ball bearings. The arbor is subjected to rigid inspection and a severe running test for accuracy and to detect any vibration.

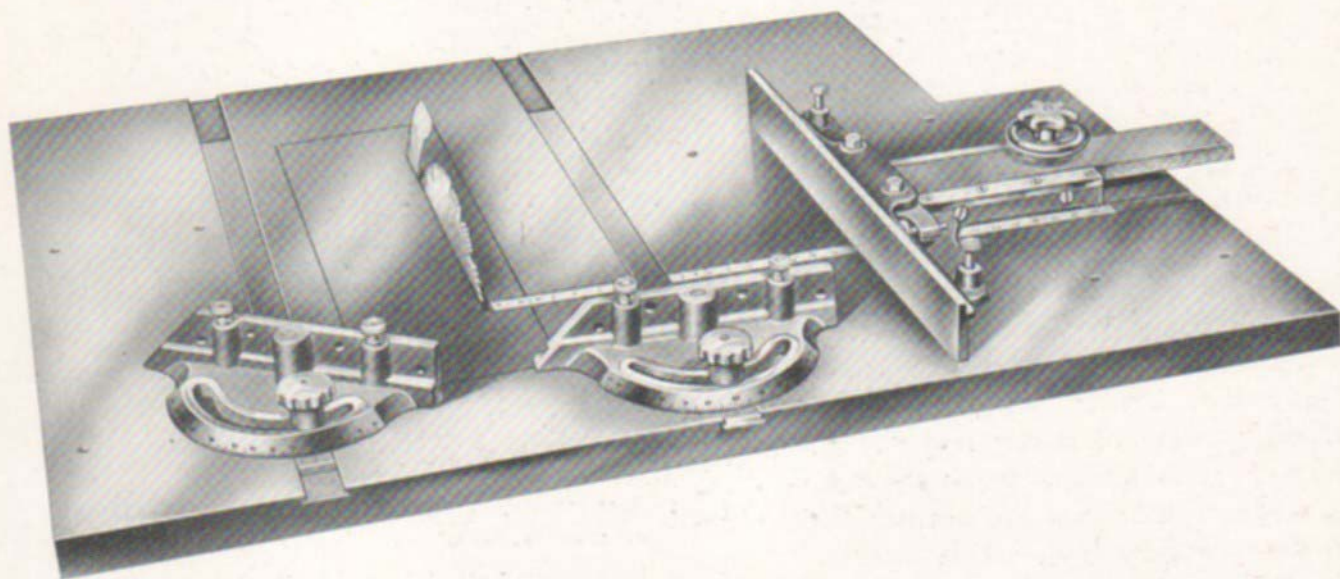
MOTOR

5 HP, 3600 RPM, totally enclosed, fan-cooled motor mounted directly on the saw arbor. Specially designed with high momentary overload capacity. Magnetic control switch with overload and under-voltage protection and push button control. The start and stop buttons are conveniently located under the table.

Cage type saw guard can be furnished. Saw guard is counter-balanced for easy operation and mounted at the edge of the table at the rear.



SAW TABLE TOP — Showing easy reading, easy operating gages, removable throat plate for quick access to saw, graduated scale built into table to right of saw, and holes in table for five positions of rip gage.



TABLE

The table is heavily ribbed and accurately machined top and bottom. Bolted and dowelled to the base on continuous supports assuring permanent alignment and a true surface for the life of the machine. A removable center plate permits the use of a wooden throat if desired and increases the accessibility of the saw arbor.

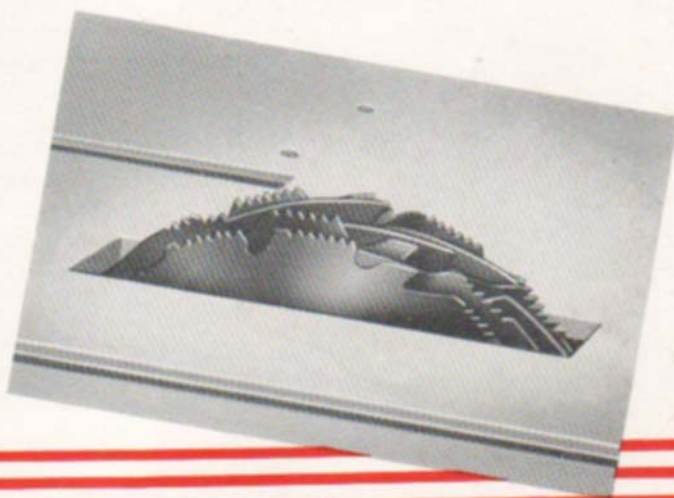
GAGES

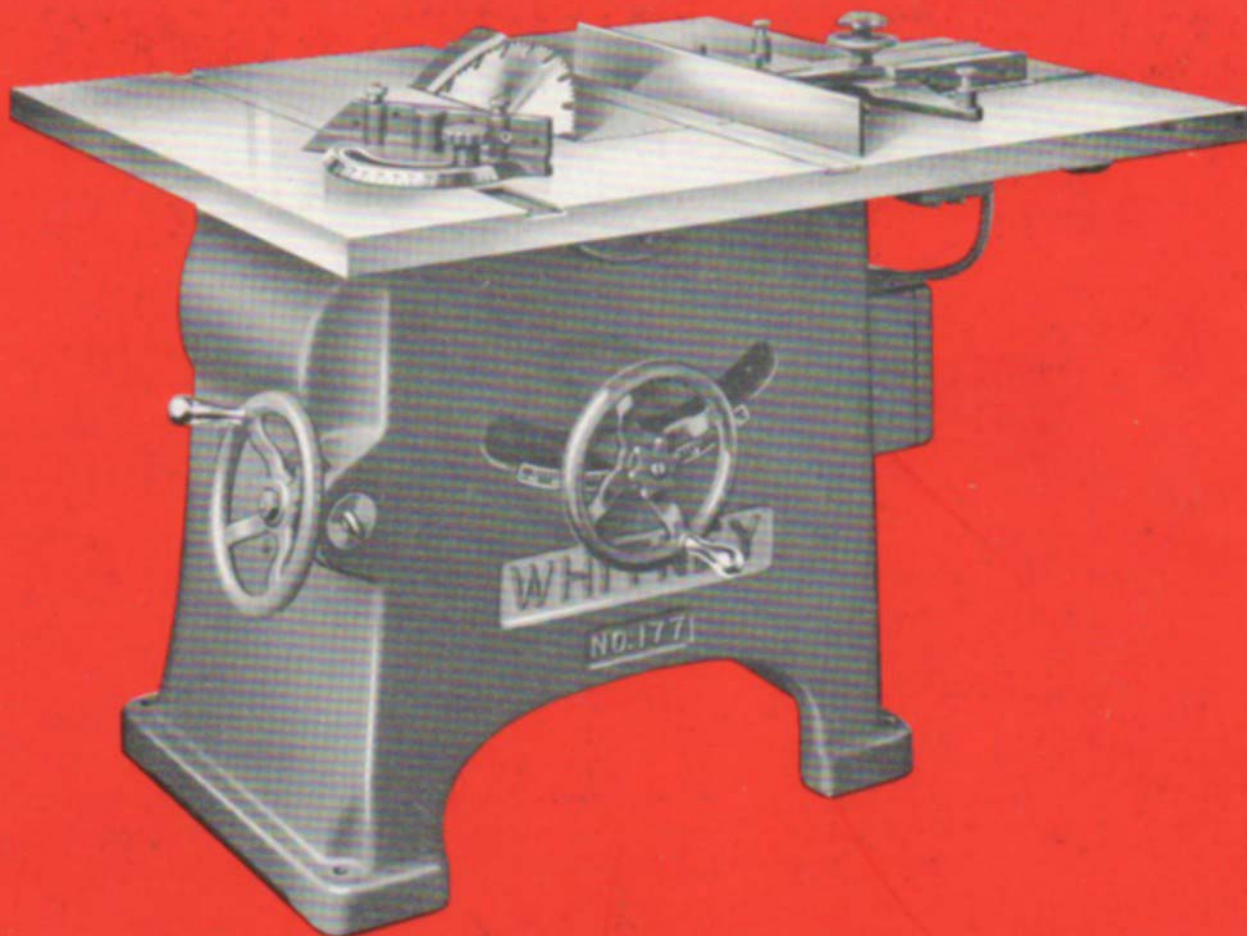
Two Universal Cut-off Gages are furnished having 120 degree angular adjustment, the angle of the saw cut being read directly in degrees on graduated scales on the gages. They slide smoothly in T-slots carefully machined in the table. One gage is equipped with extension stop rod.

The plain Rip Gage furnished, has a fine adjustment to and from the saw obtained by means of an adjusting wheel operating a rack and pinion, and is equipped with a locking device. The gage is located by two taper

pins fitting into tapered holes in the table. Five positions of the gage permit a wide range of adjustment. The gage may be used on either side of the saw. A graduated scale set into the table, to the right of the saw, facilitates accurate ripping of stock up to the full $29\frac{1}{2}$ inch capacity.

Section of table showing $2\frac{1}{2}$ " wide dado head mounted on saw arbor and table fitted with special throat plate.





Specifications

• • • • • WHITNEY NO. 177 VARIETY SAW

TABLE Plain, 53½" wide by 40" deep. Height from floor, 34". Center of saw to front of table, 19"; 19" from left edge.

SAW 16" Saw cuts stock up to 4" thick. Saws, 10" to 16" diameter can be used. Saw tilts up to 45 degrees. Accurately rips up to 29½" wide.

SAW ARBOR Has 1½" dia. Detachable End with saw collars. Other Ends can be furnished for dado heads up to 2½" wide. Specify diameter and length of End required.

MOTOR 5 H.P. 3600 RPM., 220, 440 or 550 volts, 60 cycle, 2 or 3 phase. Totally enclosed, fan-cooled. Magnetic starting switch with overload and under-voltage protection. Push button control.

FLOOR SPACE 53½" by 40". **SAWDUST CONDUCTOR** Stationary, 6" dia., 7½" from floor.

EQUIPMENT 16" Planer Saw. Steel Saw Splitter. 2 Universal Cut-off Gages. Plain Rip Gage with rack and pinion adjustment. 1 - 1½" dia. Detachable End. Set of Saw Collars. Set of wrenches.

SPECIAL EQUIPMENT 1 - 1½" dia. Detachable End, for 2½" wide Dado Head. Saw guard, metal cage type. Tilting Rip Gage that may be tilted to any angle with the table up to 45 degrees.

BAXTER D. WHITNEY & SON, Inc.
WINCHENDON, MASSACHUSETTS, U. S. A.