



Type G-89

Tilting Arbor Variety Saw

With Direct Motor Drive

THE new G-89 Direct Motor Driven Tilting Arbor Variety Saw has been designed for use in automobile body plants, furniture factories, cabinet shops and general woodworking plants. The tilting of the arbor not only widens the range of the machine but also affords greater ease of operation which results in increased production.

The rotor of the high speed motor is mounted directly on the tilting arbor, and there are no gears or belts to cause loss of

power. The motor is of the *totally enclosed, fan cooled, dust proof* type, which assures continuous service without danger of short-circuits caused by dust or dirt. This is an exclusive feature of the G-89 Saw.

It is built on a sturdy one-piece frame with clean cut sides devoid of projecting parts. Skillful design and careful workmanship make the G-89 Saw an extremely accurate machine for all sawing operations requiring straight or bevel cuts.

Distinctive Features

The Frame . . . is a one-piece casting which flares out at the bottom to form a rigid foundation on the floor and give strength and stability. The base is open near the floor to enable the operator to stand close to the table. The sides are plain without projecting parts except the necessary hand wheels for adjustments.

The Table . . . is heavily ribbed and carefully machined to assure accuracy. The cut-off gauges slide past the saw in machined T slots which run parallel to the saw on either side. A cast iron throat plate is provided with a slot for the saw. Provision is made for replacing the throat or center plate with a wooden plate for using dado heads.

The Cut-Off Gauges . . . have an angular adjustment of 120° for angular and bevel sawing as well as for cutting miters. Each gauge is graduated to show the angle of cut in degrees, and by using this feature in conjunction with the tilting saw any desired compound angle may be cut. Provision is made for facing the gauges with wooden plates. A cast iron yoke is furnished that the two gauges might be connected for very accurate cut-off or dado work.

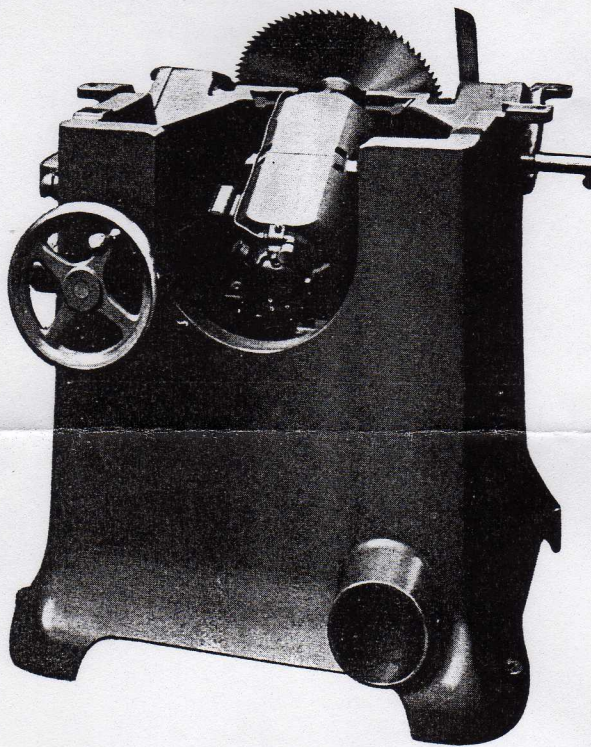
The Rip Gauge is of the box type, adjustable on a rail placed in front of the table. It can be used on either side of the saw.

The Saw Arbor is made from special alloy steel, accurately ground to size. It is mounted in deep groove, selected, precision ball bearings of extra large size to withstand the heavy cuts and

abuse of high production. The arbor is fitted with a detachable end for the saw which is interchangeable with a longer end for use with dado heads. The ball bearings are lubricated by grease.

The Swinging Frame . . . carrying the saw arbor and motor unit is mounted on accurately machined segment gibs located and dowelled in place. These gibs are located one on each side of the frame forming a firm support which tilts easily and retains a perfectly aligned saw. The tilting is accomplished by means of a handwheel at the right hand side of the machine, operating a screw which is mounted on ball thrust bearings. A pointer in full view of the operator indicates the degree of tilt on a graduated scale.

The Vertical Adjustment . . . of the motor and arbor is accomplished by a hoist screw operated by a handwheel through spiral gears. This screw is provided with a ball thrust bearing. The complete unit is adjusted vertically in gibbed dovetailed ways.



The totally enclosed, fan-cooled, dust proof motor is mounted on a frame that swings on accurately machined segment gibs . . . The dust outlet is cast integral with the base.

The Motor . . . is of 5 H. P., 3600 R. P. M. for 2 or 3 phase alternating current. It is of the *totally enclosed, fan cooled, dust proof* type, and has the rotor mounted directly on the saw arbor. The control is through a push button operated magnetic switch provided with overload and under-voltage protection. The push button station is conveniently located within easy reach of the operator and in full view. The start button is placed slightly below the surface to prevent accidental starting.

SPECIFICATIONS

REGULAR EQUIPMENT

TABLE · 40" deep by 44" wide. 34½" high. Center of saw from front edge of table 20", from left edge 17". Floor space 44"x40".

SPINDLE · Tilts 45° to right. Mounted on large deep groove ball bearings.

SAW · 16" diameter, combination rip and cut-off. Projects 4½" above table. Saws up to 18" diameter may be used, but we do not recommend saws larger than 16" at this high speed. Stock 26" can be ripped. Rip gauge may be used on either side of saw.

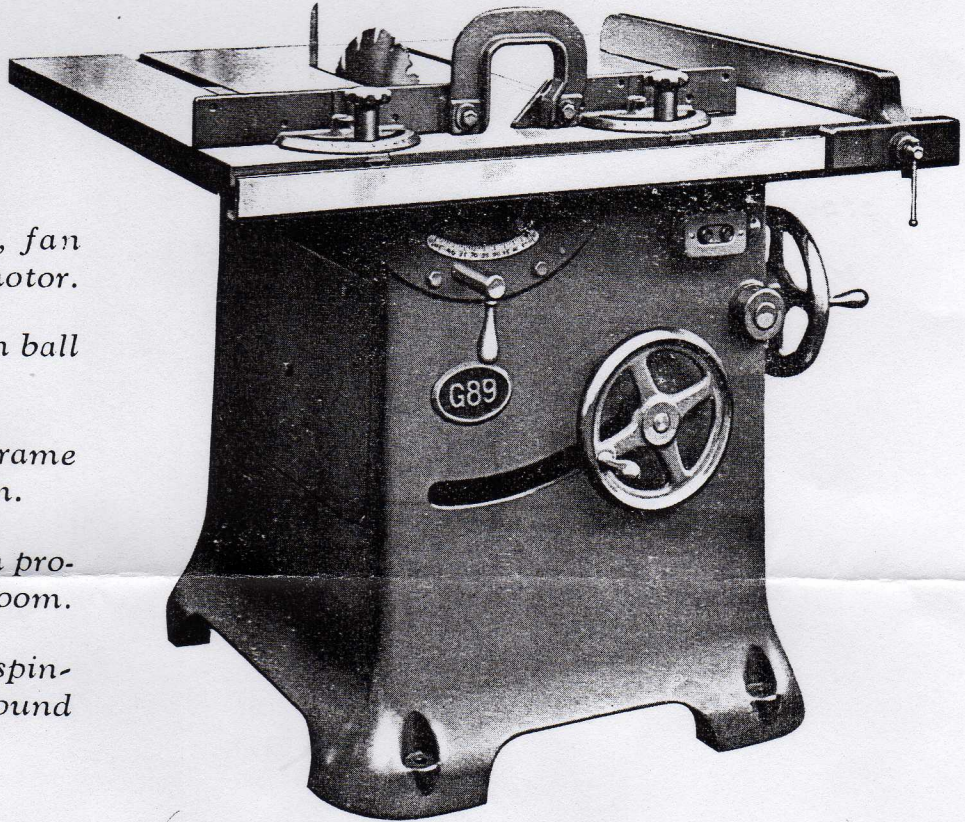
MOTOR DRIVE · 5 H.P., 3600 R.P.M., totally enclosed, fan cooled, dust proof motor for 2 or 3 phase alternating current. Push button operated magnetic switch with overload and under-voltage protection.

EQUIPMENT · 1—16" combination rip and cut-off saw.
2—graduated swivel cut-off gauges.
1—double faced box rip gauge.
1—1½" detachable end for saw.
1—1½" detachable end for dado heads up to 3" wide.

CODE:

EXTRA EQUIPMENT

- CUHOF** Roller table, same size as regular table. Movable section 16½" wide, adjustable to take dado heads up to 3" wide. Rolls on ball bearing rollers. When the roller table is furnished, a plain or tilting micrometer rip fence is used which is furnished on special order.
- CUHUG** Plain Universal micrometer rip fence, quick adjusting type.
- CUIBV** Tilting Universal micrometer rip fence, quick adjusting type.
- CUICW** Allowance for plain box type rip gauge.
- CUIHB** Allowance for furnishing 3 H.P., 3600 R.P.M. motor in place of the regular 5 H.P. size.



Totally enclosed, fan cooled, dust-proof motor.

Extra large precision ball bearings.

One-piece sturdy frame flaring at bottom.

Base open at bottom providing ample foot room.

Special alloy steel spindle, accurately ground to size.

A well balanced, compact unit . . . conveniently placed handwheels for adjustment of saw in vertical and tilting positions . . . ample foot room on all sides.

YATES-AMERICAN MACHINE COMPANY

General Offices: BELOIT, WISCONSIN, U. S. A.

YATES-AMERICAN MACHINE COMPANY

Beloit, Wisconsin, U. S. A.

TYPE G-89 TILTING ARBOR VARIETY SAW

Code	Type	Floor Space	Weight	Price
AMARG	DMD	40" x 44"	1600 lbs.	\$600.00

REGULAR EQUIPMENT

FRAME One-piece casting flared at the bottom.

TABLE 40" deep by 44" wide. 34½" high. Center of saw from front edge of table 20", from left edge 17". Floor space 44" x 40".

SPINDLE Tilts 45° to right. Mounted on large deep groove ball bearings.

SAW 16" diameter, combination rip and cut-off. Projects 4-1/8" above table. Saws up to 18" diameter may be used, but we do not recommend saws larger than 16" at this high speed. Stock 26" can be ripped. Rip gauge may be used on either side of saw.

MOTOR 5 H.P., 3600 R.P.M., totally enclosed, fan cooled,

DRIVE dust-proof motor for 2 or 3 phase alternating current. Push button operated magnetic switch with overload and under-voltage protection.

EQUIPMENT 1-16" combination rip and cut-off saw.
 2 - graduated swivel cut-off gauges. 1 - double faced box rip gauge. 1 - 1-1/8" detachable end for saw. 1 - 1-1/8" detachable end for dado heads up to 3" wide.

Code

EXTRA EQUIPMENT CHARGE AND ALLOWANCES

(Prices apply only when ordered
with machine: Do not use for
supply purposes.)

CUHOF	Roller table, same size as regular table. Movable section 16 $\frac{1}{2}$ " wide, adjustable to take dado heads up to 3" wide. Rolls on ball bearing rollers. When the roller table is furnished, a plain or tilting micrometer rip fence is used which is furnished on special order	\$150.00
CUHUG	Plain Universal micrometer rip fence, quick adjusting type	50.00
CUIBV	Tilting Universal micrometer rip fence, quick adjusting type	75.00
CUICW	Allowance for omitting plain box type rip gauge	25.00
CUIHB	Allowance for furnishing 3 H.P., 3600 R.P.M. motor in place of 5 H.P.	20.00