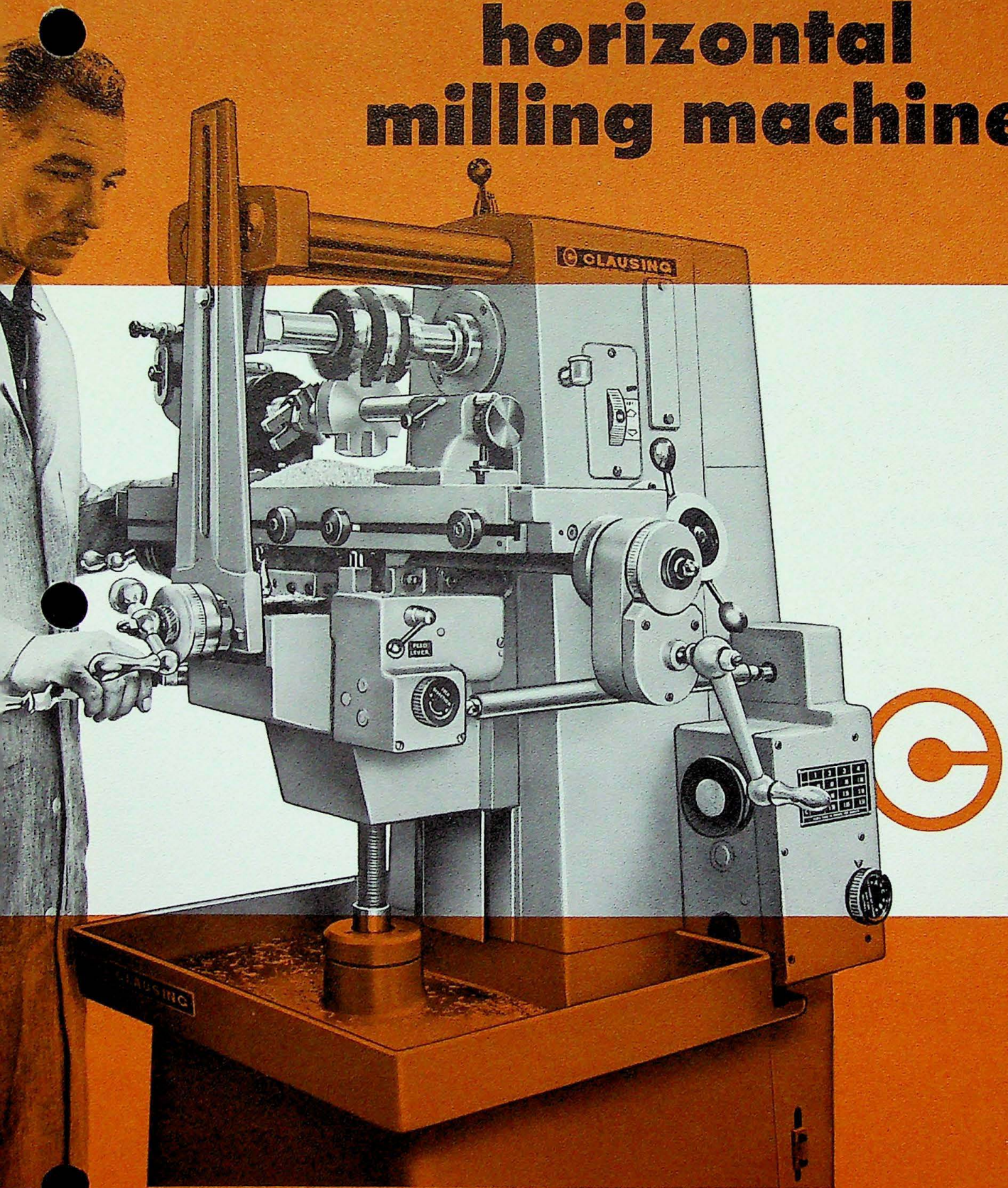


CLAUSING

horizontal milling machine



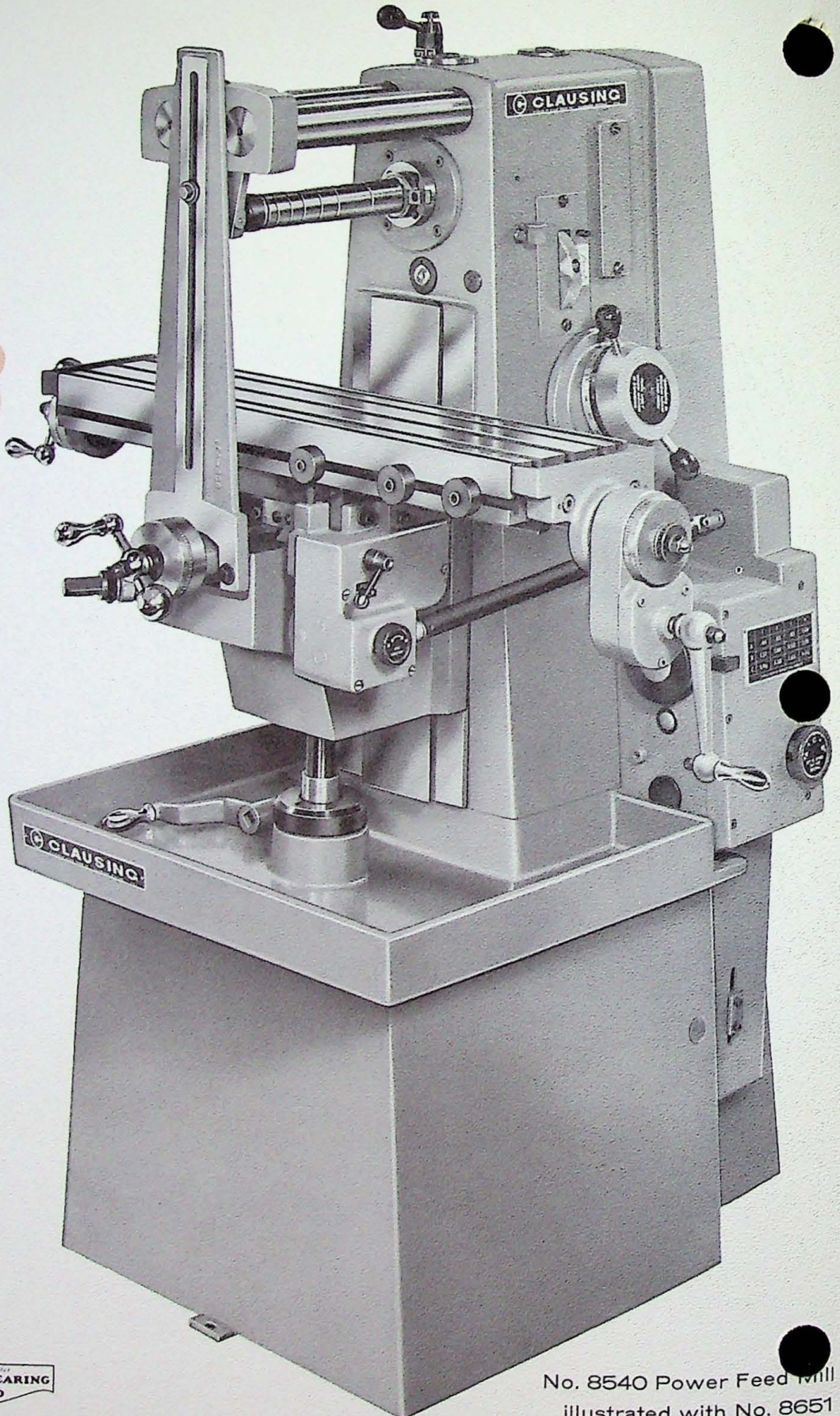
SEE
YOUR CLAUSING
DEALER . . .

CLAUSING HORIZONTAL MILLING MACHINE

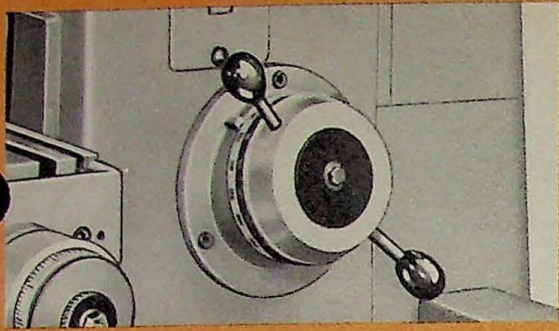
*infinitely
variable drive*



*dial speeds
to 2000 rpm*



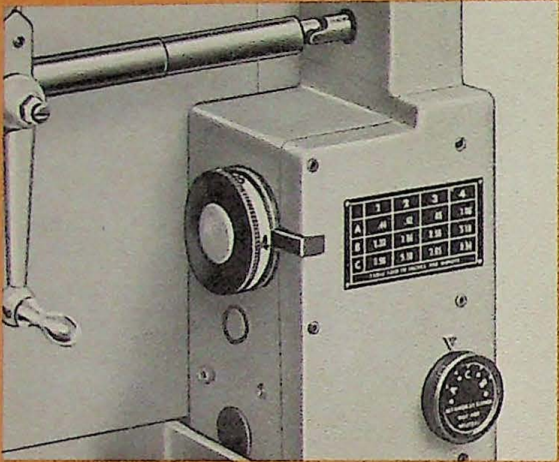
No. 8540 Power Feed Mill
illustrated with No. 8651
overarm brace and No. 8644 arbor.



INFINITELY VARIABLE SPEEDS TO 2000 RPM

— HYDRA-DIAL CONTROL

Optimum speed for cutter and work is *dialed* instantly while machine is running — low range from 52 to 280 is gear driven, high range, 360 to 2000 is belt driven. Speeds are changed hydraulically — motor is 1½ hp.

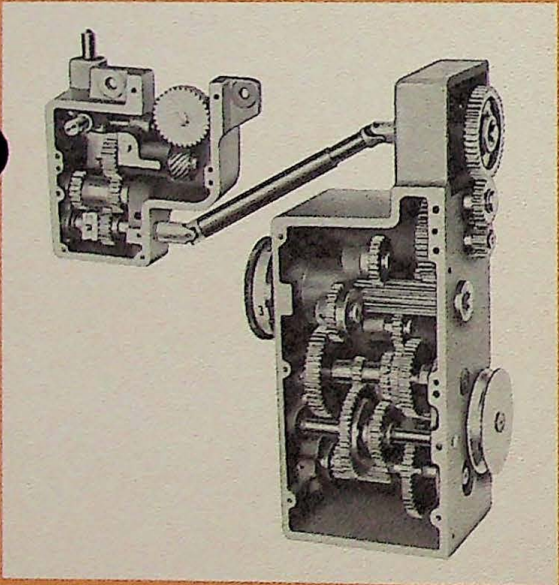


12 GEAR-DRIVEN POWER FEEDS — FAST DIAL SELECTION

Twelve longitudinal feeds — .44 to 9.54 ipm — provide the correct feed for milling an unusually wide range of materials.

Reverse feed gear box, with feed engagement lever and direction control, is located at the saddle for convenient operation.

Two adjustable stops actuate the kick-out mechanism, disengaging power feed automatically. Positive safety stops are also provided.



TWO-SPEED MANUAL FEED

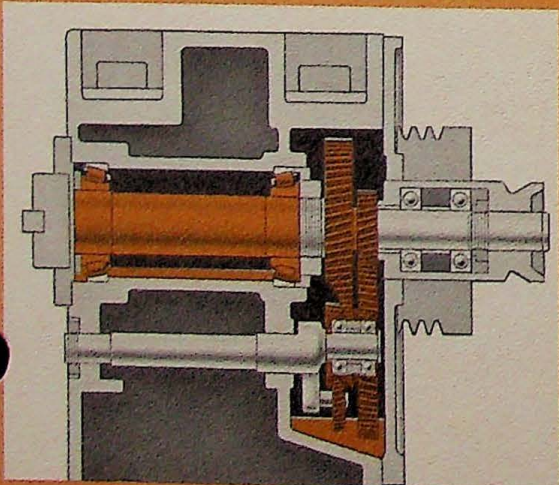
Hand feeds, standard or 4 to 1 rapid traverse, are available thru crank actuated mechanism at right end of table. Ball crank at left end is standard feed.

HEAVY DUTY GEAR BOX

Maximum efficiency on production milling is assured by the design of the power feed mechanism.

Note the rugged, geared transmission to deliver full power for heavy loads.

The twelve feeds are dial-selected, direction and engaging controls are at the table. Power feed has automatic kick-out, and safety overload clutch.

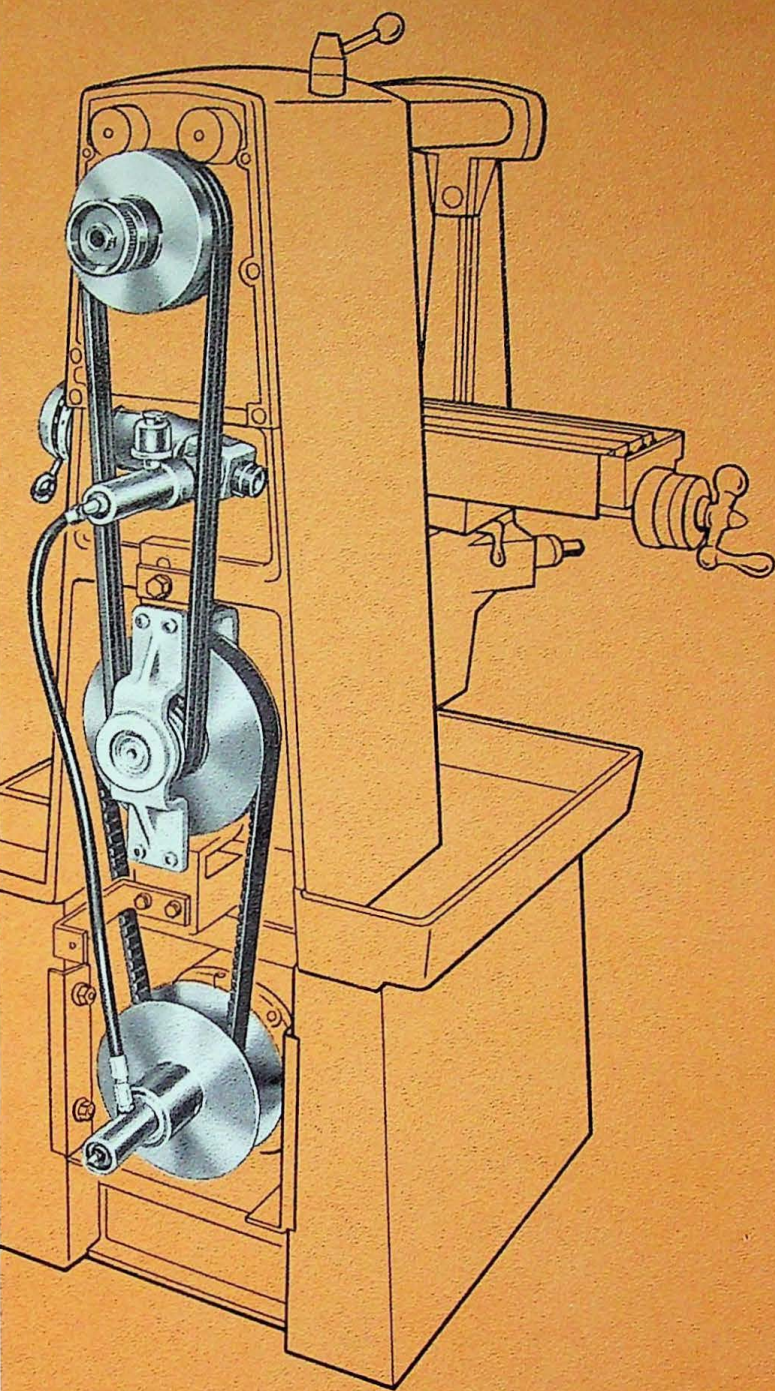


No. 30 A.S.A. SPINDLE — TIMKEN BEARINGS — HELICAL BACK GEARS — OIL BATH LUBRICATION

Two 3½" diameter Timken tapered roller bearings support the alloy steel precision ground spindle.

Helical gearing assures full power and smooth operation. Back gears and spindle drive pulley turn on lubricated-for-life ball bearings.

Spindle bearings, gears and shafts travel in a bath of oil for long service life.



**POSITIVE POWER
VARIABLE SPEED DRIVE
— 1½ HP MOTOR**

The Clausing is engineered for top efficiency at all speeds and loads.

The variable speed countershaft turns on lubricated-for-life ball bearings. Pulleys are machined and balanced. Three modified-wedge belts power the spindle.

After motor is installed, each machine must meet rigid performance tests.

BOX-TYPE COLUMN — Basic to Clausing's rigidity and accuracy is the thick-walled, multi-braced, one-piece column that houses the spindle and supports the knee and table.

Knee and saddle are heavy, precision machined castings. Have wide dovetail ways, full-length gibs with positive locks.

Knee lift screw turns on ball thrust bearing, elevating mechanism is ball bearing equipped.

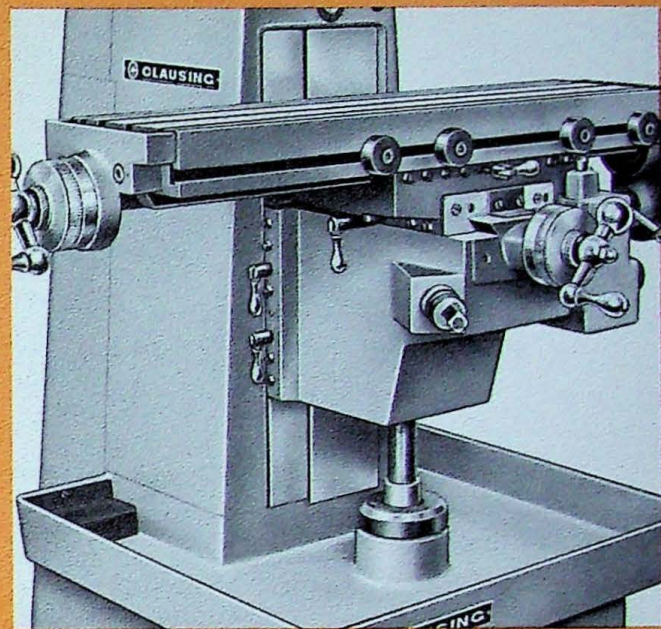


TABLE — has 26½" x 6¾" ground working surface, three 9/16" T-slots, coolant trays, dovetail ways, full-length gibs on the saddle, positive lock.

PRECISION FEED SCREWS — ground to gage tolerance . . . 3⅜" micrometer graduated satin-chrome dials . . . and ball bearings assure high sensitivity and accuracy.

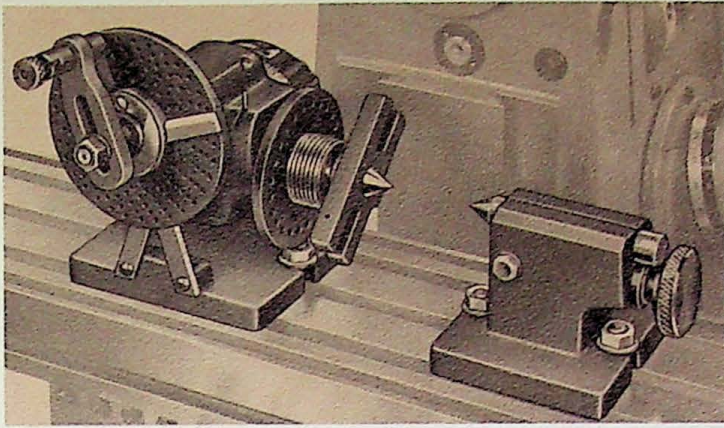
DUAL OVERARM — 2-inch stress-proof steel, with long bearing surfaces in column and coordinate-type locks — maintains rigid alignment of arbor.

BASE — 3/16" thick steel plate, with cast iron top — a solid foundation.

VERIFIED ACCURACY

1. Spindle taper within .0005" TIR.
2. Table surface parallel to spindle within .0005" in 5".
3. Knee travel within .0005" in 6".

These are typical of the many tight-tolerance standards detailed in the inspection report supplied with each Clausing milling machine.



6 1/2" UNIVERSAL DIVIDING HEAD

Has three plates for indexing thru 40 to 1 ratio all numbers to 50, and even numbers to 100 (except 96). Headstock swivels 110° vertically, has 1 3/4"-8 threaded spindle, No. 9 B & S taper, 7/8" bore. Furnished with quick-indexing dog holder with 24-hole index plate, keys, T-bolts, two 60° centers. Wear take-up provided. Max. length of work, 14"; swing, 6 1/2".

No. 8647 6 1/2" UNIVERSAL DIVIDING HEAD. 36 lb.

No. 8648 CLAMP DOG for square, rectangular, hexagonal or round work. Capacity, 1/4" to 1 1/2". 2 lb.

BURNERD GRIPTRU UNIVERSAL CHUCKS

Have micrometer adjusting mechanism that permits *chucking concentric within .0002" total indicator reading* at scroll chuck speed. 3-pinion construction. Two sets of solid jaws furnished.

No.	Size	Jaws	Thread	Lb.
7038	6"	3	1 3/4"-8	21
7039	6"	6	1 3/4"-8	25

BURNERD 3-JAW UNIVERSAL CHUCKS

3-pinion construction. Nos. 7035 and 7036 furnished with two sets of solid jaws. No. 7037 has master jaws with reversible hard tops.

No.	Size	Jaws	Thread	Lb.
7035	5"	Solid	1 3/4"-8	16
7060	6"	Solid	1 3/4"-8	22
7061	6"	2-Piece	1 3/4"-8	21

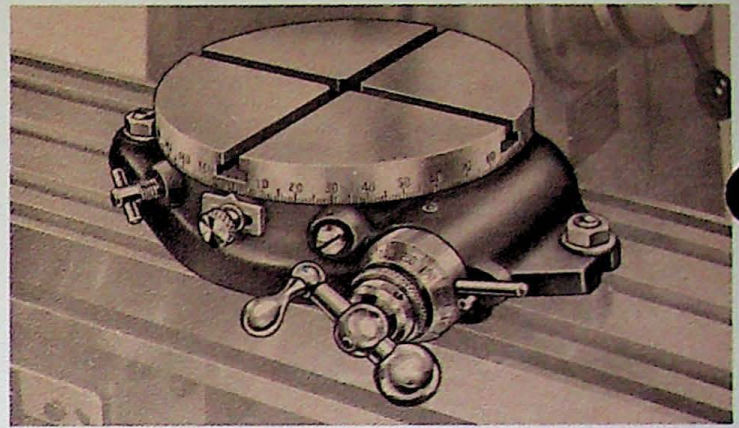
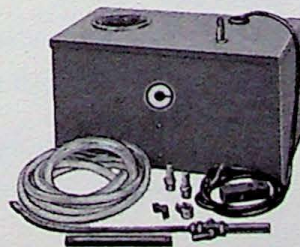
BURNERD 4-JAW INDEPENDENT CHUCK

No.	Size	Thread	Lb.
7040	6"	1 3/4"-8	14

COOLANT SYSTEM

No. 8646 COOLANT SYSTEM.

Has recirculating sump-type pump with screen trap, flexible nozzle with regulator valve, 6' flexible plastic hose, 6' three-wire cord and plug, clamps, fittings. Motor is 110 volt, 60 cycle, 1-phase. Motor is enclosed in tank. Tank capacity, 5-gallons. 18 lb.



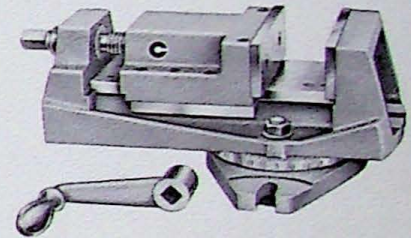
7" ROTARY TABLE

Precision built for accurate, angular indexing and spacing operations. Has ground table, conveniently located crank with eccentric throw out for free table movement, lock, T-slots for 5/16" bolts. Table graduated 0° to 90° in each quadrant. Friction clutch feed dial graduated 240 minutes. Table and dial graduations easily synchronized. Provision for take-up.

No. 8649 7" ROTARY TABLE. 10 1/2" x 10" x 2 3/4". 25 lb.

PRECISION VISE

Built to .001" tolerance



For accurate work setup . . . close-tolerance operations. Jaw plates are hardened and ground steel . . . 4" wide, 1 3/4" high, open 3". Sliding jaw travels on hardened and ground steel plate. Swivel base graduated 0° to 90° both directions. Crank is forged steel.

No. 8636 VISE with graduated swivel base. 11 1/4" x 7 1/16" x 4 9/16". 30 lb.

No. 8637 VISE, less swivel base. 11 1/4" x 7 1/16" x 3 1/2". 25 lb.



CUTTER ARBORS

Furnished with eight spacers.

No. 8642 ARBOR. For cutters with 7/8" hole. 8 lb.

No. 8643 ARBOR. For cutters with 1" hole. 8 lb.

No. 8644 ARBOR. For cutters with 1 1/4" hole. 8 lb.

OVERARM BRACE

Holds overarm, cutter arbor and knee in rigid alignment — improves work finish on heavy cuts.

No. 8651 OVERARM BRACE. 10 lb.



CLAUSING

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