



NO OBSOLESCENCE TOLERATED HERE

MONARCH

MODEL "C"

16" ENGINE LATHE

CODE WORD "BASE"

Specifications

Swing over bed	18½"
Swing over cross slide	11"
Takes between centers, tailstock flush	30"
Length between centers	30", 54", 78", 102" and 126"
Takes between centers, tailstock overhung	35"
Base length shipping weight, without motor	5800 lbs.
Weight each additional two feet	360 lbs.
Hole through spindle	1⅞"
Spindle bearings, tapered roller	Precision
Center Morse taper	No. 4
Standard Camlock spindle nose	6"—D-1
Leadscrew, diameter and threads per inch	1½"—4 thd.
Range of threads per inch, quick-change	2 to 120
Range of feeds per revolution, quick-change	.0028" to .168"
Thread and feed changes, regular quick-change	60
Tailstock, spindle diameter	2 7/8"
Tailstock, spindle traverse and set-over	5½"—1"
Steady rest opening, regular	5"
Maximum capacity oversize steady rest	6" to 12"
Carriage length	25"
Carriage bridge width	8"
Compound rest top slide travel	3¾"
Size of lathe tool	5/8" x 1⅜"
Motor, size recommended	7½ H. P.
Motor, constant speed recommended	1800 R.P.M.
Motor, frame size recommended	NEMA 284

When equipped with relieving attachment see Bulletin No. 15 covering slower speeds.

Distance, spindle center to floor	42¼"
Width of bed	16¾"
Depth of bed	13"
Maximum collet capacity, bar type	1⅞"
Maximum collet capacity, Sjogren handwheel type	1⅜"
Maximum collet capacity, Cushman spindle nose type	1¾"
Thread cutting range:	2, 2¼, 2⅜, 2½, 2¾, 2 7/8, 3, 3¼, 3½, 3¾, 4, 4½, 4¾, 5, 5½, 5¾, 6, 6½, 7, 7½, 8, 9, 9½, 10, 11, 11½, 12, 13, 14, 15, 16, 18, 19, 20, 22, 23, 24, 26, 28, 30, 32, 36, 38, 40, 44, 46, 48, 52, 56, 60, 64, 72, 76, 80, 88, 92, 96, 104, 112 and 120.

NOTE—We can furnish, instead of the above, a range of threads from 1 to 60.

Metric transposing thread range: 1/8 MM to 13 MM pitch.

Metric gear box thread range: 1/2 MM to 30 MM pitch.

Standard spindle speed range: 17, 23, 28, 37, 45, 59, 74, 98, 121, 158, 200, 264, 319, 420, 532 and 700 R. P. M.

Higher available speed ranges: 19 to 800, 21 to 900, 24 to 1000.

Lower available speed ranges with 1200 R. P. M. motor (frame size 324): 12 to 487, 14 to 600.

Taper attachment turns 4" taper per foot—18" length at one setting.

Floor space (30" between centers): length 98", width 53".

Boxed size (30" center distance): Length 108", width 56", height 59", cubic displacement 206 cu. ft.

Regular Equipment Consists Of—Face plate, dog plate, steady rest, compound rest, centers, thread chasing dial, chasing stop and wrenches.

THIS MONARCH 16" ENGINE LATHE HAS

Hardened and ground alloy-steel helical gears in headstock—silent smooth transmission of power—no gear tooth marks on work.

Hardened spindle with Standard 6", type D-1, Camlock spindle nose.

Tapered roller bearings in headstock.

Headstock has combined pump and splash lubrication. Clean filtered oil to spindle bearings. Visual oil gauges.

Hardened gears, shafts and studs in end gear train, gear box and apron. Gear box and end gear train gears have tooth contours ground or shaved.

Hardened and ground cross-feed and compound rest screws.

Tailstock with hardened and ground spindle.

Multiple ground splined shafts throughout.

Flame-Hardened and ground bed ways.

Filtered and metered automatic force-feed lubrication to carriage on bed and to bottom slide on carriage and apron.

Hardened alloy-steel feed rack.

Anti-friction bearings in gear box, apron and all other points of advantage.

Large diameter cross-feed and compound micrometer dials, graduated in thousandths, to read in diameter.

Chromium plated handles and handwheels.

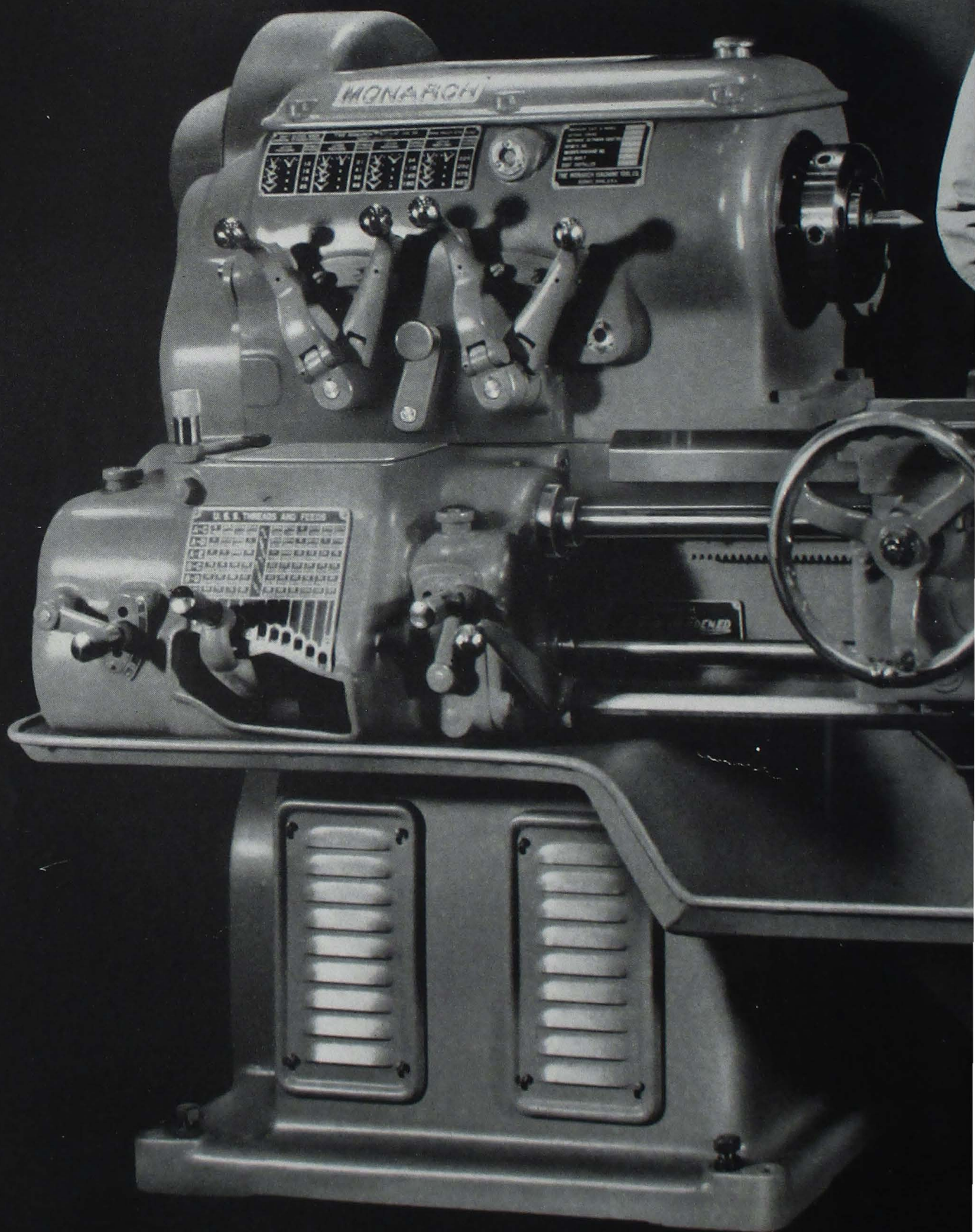
Leveling screws in legs.

Motor in leg—multiple "V" belt drive.

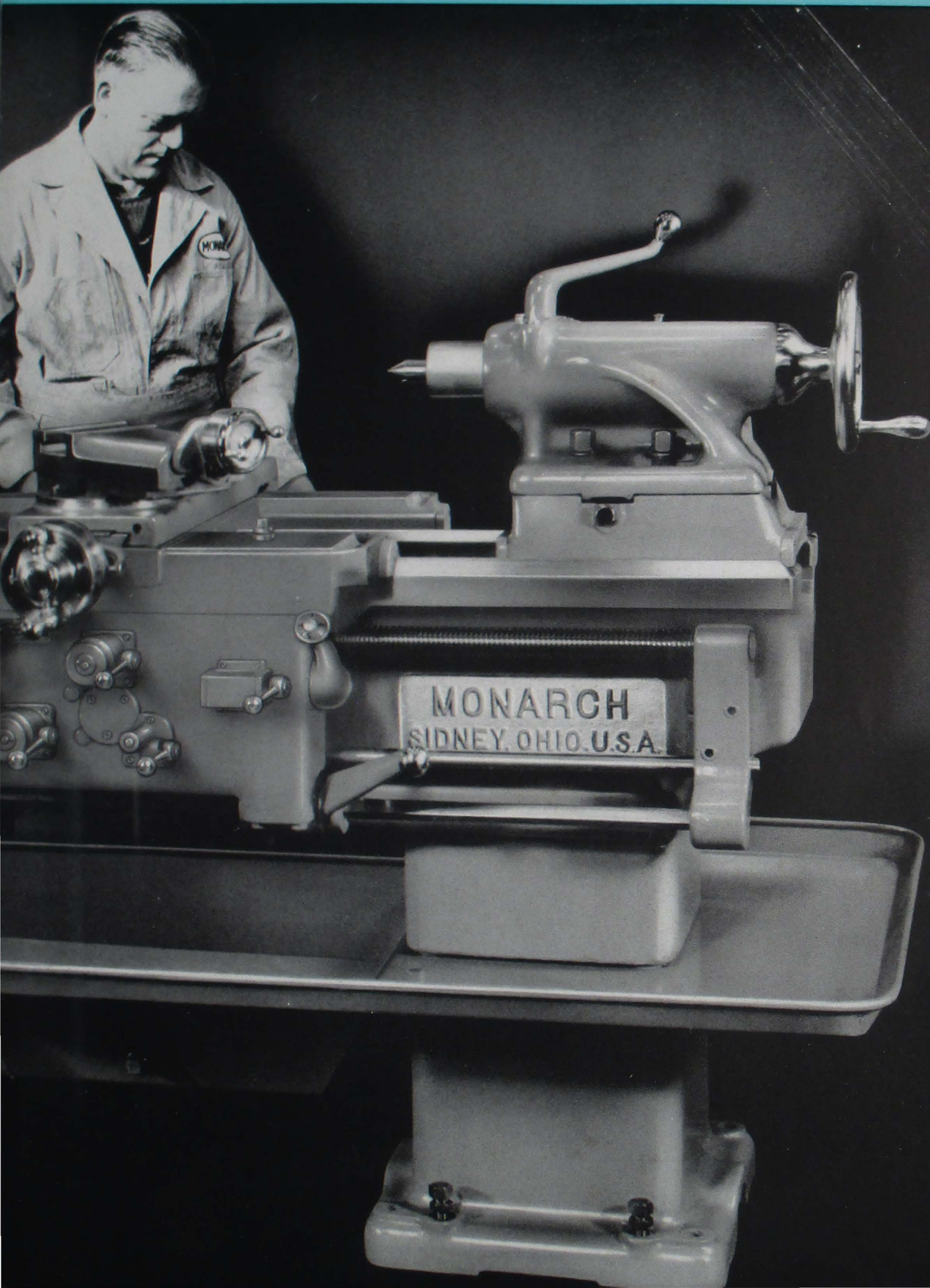
THE MONARCH MACHINE TOOL COMPANY, SIDNEY, OHIO

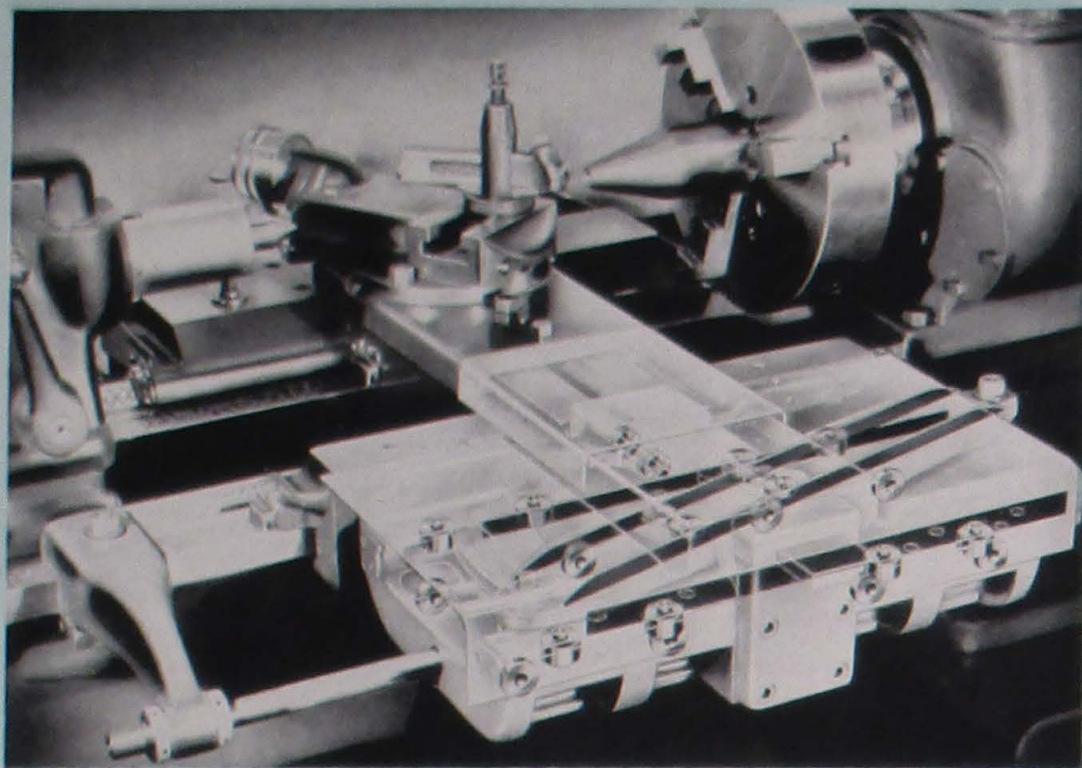
BRANCH OFFICES AND SELLING AGENCIES IN ALL INDUSTRIAL CENTERS THROUGHOUT THE WORLD

MONARCH M



DEL "C" 16" ENGINE LATHE





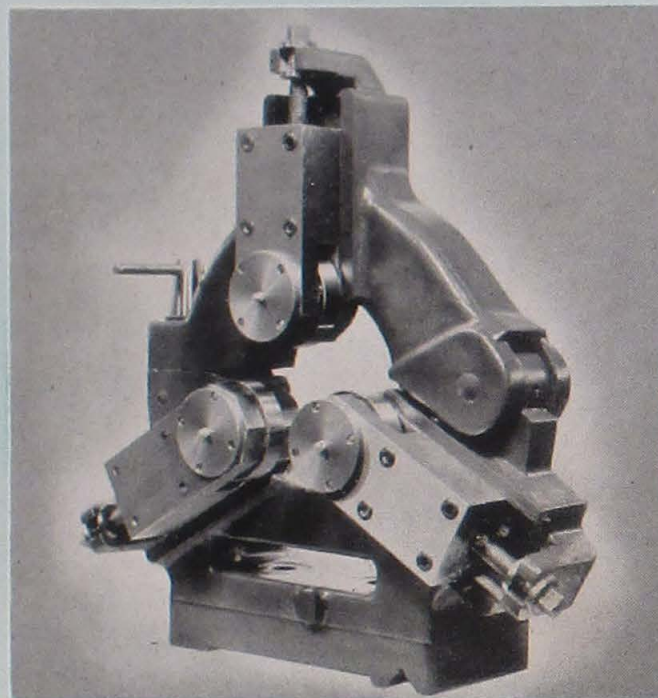
ANTI-FRICTION BEARING TAPER ATTACHMENT—for turning or boring accurate and smooth tapers under all conditions. Saves time and improves quality of tapers.

MONARCH ACCESSORIES CUT TURNING COSTS

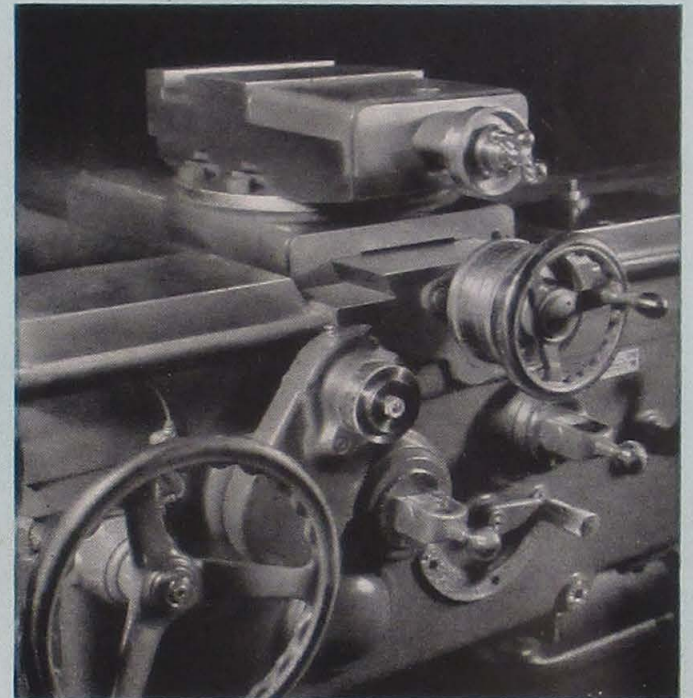
These illustrated accessories are a few of the many available for MONARCH lathes. Each helps to reduce costs by both saving operator's time and increasing production. Complete accessory bulletins will be supplied on request.



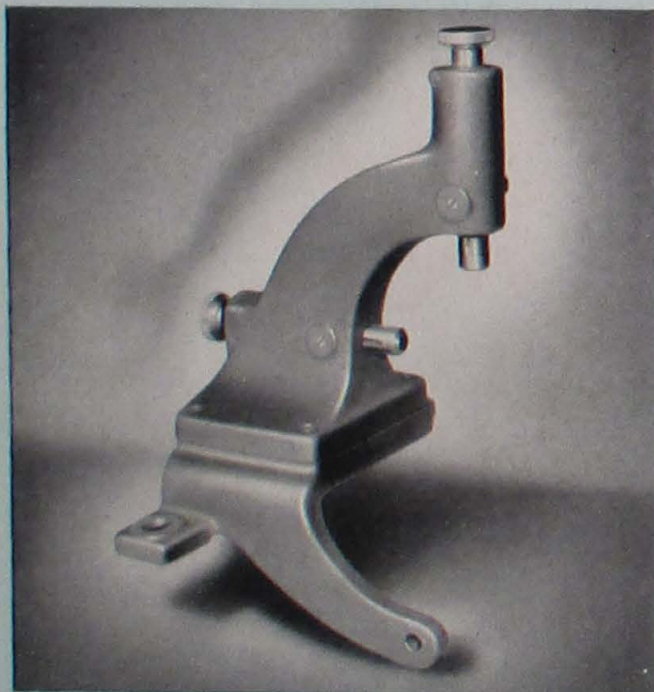
TOOL CABINET—provides ample storage space for accessories used with the lathe.



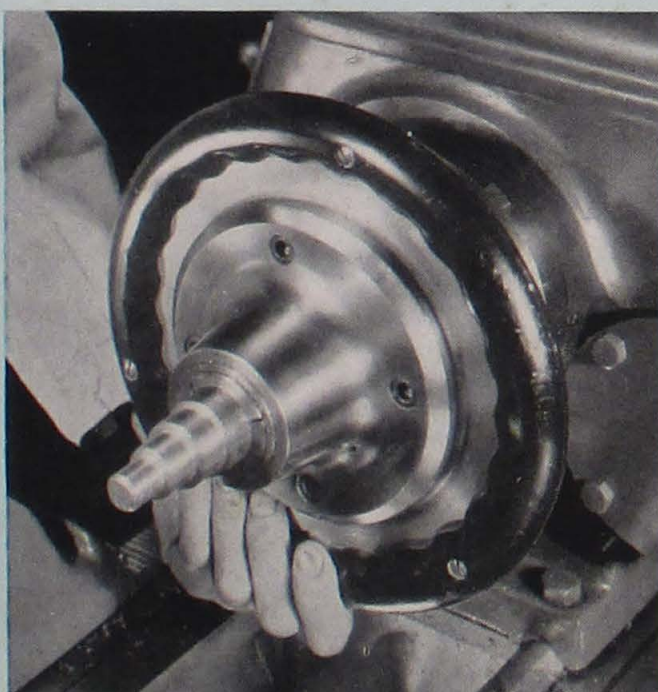
3-JAW HEAVY DUTY STEADY REST—available in capacities from $\frac{1}{2}$ " minimum to 12" maximum on lathes from 12" to 20" inclusive.



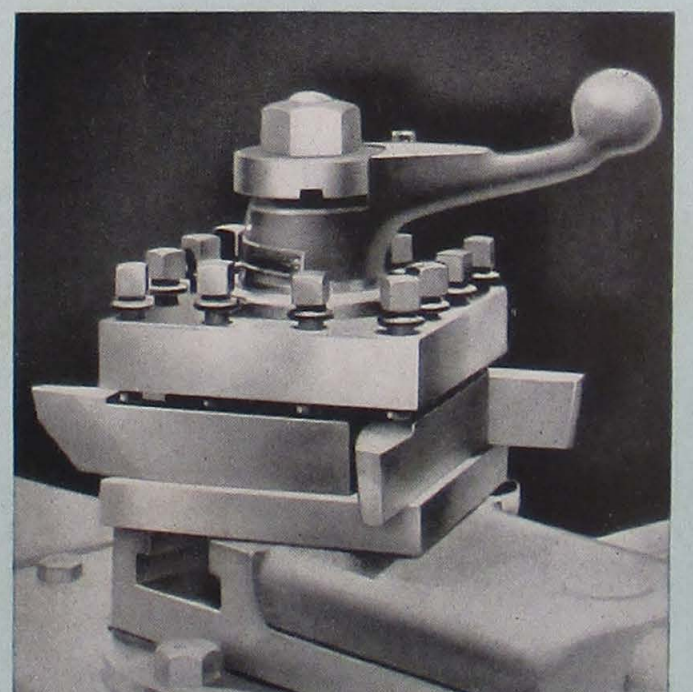
LENGTH READING DIAL—saves time by permitting the operator to read the length of cut directly on the dial, also lessens spoiled work.



FOLLOW RESTS—can be furnished with plain or roller bearing jaws in a size for most requirements. Easily and quickly mounted.



SJOGREN COLLET CHUCK—fits directly on the Camlock spindle nose, reduces overhang and insures extreme accuracy of chuck body alignment. Several types of collet attachments are available.



STYLE "O" TURRET—mounts on the compound rest like standard tool post. Turret indexes to twelve positions and is one of several styles applicable to Monarch lathes.