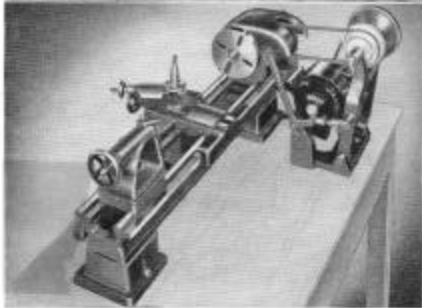


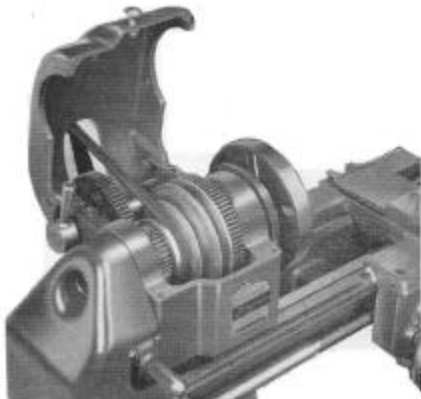


Logan 9-inch BACK GEARED SCREW CUTTING LATHE



COUNTERSHAFT MOUNTING PRESERVES ACCURACY

The countershaft of the No. 400 Logan Lathe is mounted independently. As a result, changes in belt position to obtain varying operating speeds can be made easily and without a belt tension strain on the headstock. Belt tension is released for easy changing of position by simply pushing forward on the belt tension lever.



9" Swing, 18" between centers

The No. 400 Logan Lathe has the same basic features that have made larger Logan Lathes outstanding in their field. The same advanced design, accuracy, ruggedness and all-around dependability built in a 9-inch design. The ball bearing mounted spindle is inherently well adapted to high speed work. The two V-ways and two flat ways of its rugged special alloy bed are precision ground to within .0005" of parallelism. Massive, precision construction throughout insures steadiness on heavy cuts and sustained accuracy. Self lubricating bronze bearings insure extra durability at vital wear points. The No. 400 offers both economy and efficiency in such varied service as precision manufacturing operations, machine shop and tool room work, farm equipment maintenance, and as the basic tool of home work shops.

No. 400, complete as shown, less motor and switch, F.O.B. Chicago.

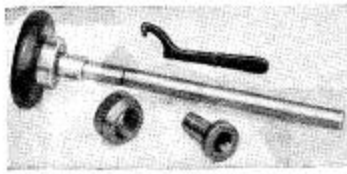
No. AC-115 Drum Reversing Switch, Switch Box and 3-foot rubber covered cable.

PRECISION BUILT HEADSTOCK

The advanced design and rugged, precision construction of the No. 400 Lathe are typified by its headstock construction. The ball bearing spindle mounting, preloaded at the factory, has a range of 30 to 1450 rpm and permits taking full advantage of high speed carbide tipped cutting tools. Front bearing seat of spindle is held to an accuracy of .0002". Total spindle run-out 12 inches from the bearing is less than .001". The wide, precision cut gears are extra heavy semi-steel. The cone step pulley is V-belt driven. This rugged, precision ball bearing headstock is a main factor in the sustained accuracy of the Logan No. 400 Lathe.

LOGAN ENGINEERING CO. • CHICAGO 30, ILL.

SPECIAL ACCESSORIES FOR NO. 400 LATHE



DRAW-IN COLLET CHUCK ATTACHMENTS

For work 1/16" to 1/2" diam. Consists of hollow draw bar, tapered closing sleeve, spindle nose cap and spindle cap wrench. Draw bar extends through headstock spindle of lathe and is threaded at end to draw collet into accurately ground closing sleeve. Spindle nose cap, when unscrewed, withdraws closing sleeve. Uses No. AC-30 collet. Shipping weight 4 lbs. No. AC-251—Draw-in Collet Chuck Attachment.



LEVER TAILSTOCK

Supplies the added advantages of a production tailstock and can be set to operate as a standard tailstock. Lever stroke, 2 3/4". Handwheel spindle travel 2 3/4". Fitted for No. 2 Morse Taper. When ordered with lathe, it is factory fitted to lathe bed and matched to headstock. Shipping weight, 25 lbs.

No. AC-240—Lever Tailstock



CENTER REST

Clamps to inner ways of lathe bed to support long pieces. Adjustable jaws. Top is hinged for easy inserting or removing of shafts. Cast-iron frame, machined cast-iron jaws. Shipping weight—7 lbs.

No. AC-280—Center Rest



FOLLOWER REST

Mounts on carriage and follows cutting tool, supporting thin work. Adjustable machined jaws, cast-iron frame, with screws for attaching. Shipping weight—4 lbs.

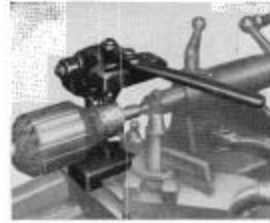
No. AC-285—Follower Rest



ELECTRIC MOTORS

1/3 H.P. Single Phase 1750 RPM Capacitor Motor, 110 V 60 cycle, sleeve bearings, single end shaft. Shipping weight 33 lbs.

No. 1101—Specially constructed for use on No. 400 Lathe.



MICA UNDERCUTTER

Mounts on back of the cross slide, leaving the tool post free to hold the truing tool. Lifting the lever swings the entire upper part of the assembly out of the way to permit truing the armature without removing the undercutter. The high speed saw is rigidly held to assure clean, even, parallel cuts and is adjustable for depth of cut desired. The unit will accommodate armatures up to 5 inches in diameter. Length of saw stroke is 2 inches. Furnished complete with two saws, one .015" thick, the other .020" thick. Use No. 488 and 489 replacement blades.

No. 406—Mica Undercutter, Complete

Collet capacity 1/2" with draw-in collets used in Logan No. AC-251 Draw-in Collet Chuck.

Collet capacity 3/8" with push type collets used in Logan No. AC-201 Hand Wheel Collet Chuck.

SPECIFICATIONS

CAPACITY OF LATHE

Swing over bed and Saddle Wings...9"
Swing over cross slide.....5"

THREADS AND FEEDS

Reversible power longitudinal feed.
Lead Screw diameter and threads per inch.....3/4"-8
Threads—46 selections RH or LH to 216 per inch.
Independent Change Gears—17 furnished (6 on Lathe and 11 extra).
Width of face of change gears...7/16"

BED

Width of bed across ways.....6 1/16"
Bed length.....33 1/4"
Precision ground ways, 2 prismatic "V" ways and 2 flat ways.

HEADSTOCK AND SPINDLE

Spindle mounted on grease-sealed New Departure Ball Bearings preloaded in the headstock at the factory.
Morse Taper with adapter No. 3, No. 2.
Back Gear Shaft bearings—self lubricating bronze bearings.
Size of centers used, Morse Taper No. 2.
Hole thru spindle.....25/32"
Spindle nose diameter and threads per inch.....1 1/2"-8
V-belt cone pulley for "A" cross section.
V-belts 1/2" wide, 11/32" thick.
Number of spindle speeds.....12
Spindle speeds, back gears engaged 30, 58, 70, 104, 131, 244.
Spindle speeds, direct belt driven 179, 334, 420, 620, 780, 1450.

CARRIAGE AND CROSS SLIDE

Cross slide graduated in thousandths, travel.....5 1/2"
Cross feed screw mounted on self-lubricating bronze bearings.
Compound rest swivel—graduated 90° in both directions.
Tool post opening for tool holder shank.....3/8" x 3/4"
Size of cutter bits used.....1/4" sq.

TAILSTOCK

Spindle travel.....2 3/4"
Spindle graduations.....1/16"
Morse Taper center.....No. 2
Tailstock top will set over for taper turning 1/2".

COUNTERSHAFT ASSEMBLY

2 speed "V" Motor Pulley.....2 3/8"-2 3/8"
2 speed "V" countershaft pulley, 6"-6 3/8"
30" x 1/2" "V" belt from motor to countershaft.
44" x 1/2" "V" belt—countershaft to headstock.
3 steps "V" belt cone pulley mounted on countershaft.
Countershaft mounted on self lubricating bronze bearings.
Motor mounted directly on countershaft bracket.
Countershaft mounted on bench independent of lathe.

LATHE EQUIPMENT

1—6" Face Plate
2—60° Centers
17—Change Gears
1—Threading Chart
1—No. 3 - No. 2 Morse Taper adapter
1—Tool Post holder and wrench
1—Tailstock wrench
Parts List and Instruction Book

OVERALL DIMENSIONS

(Including Countershaft Assembly)

Length—38"
Width—28"
Height—15 1/2"

MOTOR

Use 1/3 H.P. 1750 R.P.M. Motor—If lathe is ordered without Motor, specify bore of motor pulley to be furnished with Lathe.

SHIPPING WEIGHT

No. 400 Logan Lathe with countershaft assembly, less motor.....240 lbs.

Standard Logan Lathe ACCESSORIES used on No. 400 Lathe

LA-12-1	Threading Dial
LA-170	Face Plate, 6"
LA-187	60 Deg. Center
LA-344	Face Plate, 8"
AC-30	Split Holding Collet
AC-50	Push-type Collet
AC-101	Chuck Back Plate
AC-104	Chuck Back Plate
AC-201	Hand Wheel Collet Chuck
AC-221	Chuck Back
AC-225	Carriage Stop
AC-226	Double Carriage Stop
AC-234	Micrometer Carriage Stop
AC-300	Drill Pad
431	5"-3-Jaw Universal Chuck, H.D.
436	5"-3-Jaw Universal Chuck, Med. D.
444	6"-4-Jaw Independent Chuck
447	Arbor for 451 Chuck
448	Arbor for 452, 455 Chucks
451	Drill Chuck, 0-1/2"
452	Drill Chuck, 3/16-3/4"
453	Headstock Chuck, 1/2-5/8"
454	Headstock Chuck, 3/16-3/4"
455	Center Rest Chuck, 1/4-3/4"
459	Jacobs Commutator Kit
521	Tailstock Turret
549	Lathe Tool Set
550	L. H. Tool Holder
551	R. H. Tool Holder
552	Straight Tool Holder
553	Threading Tool Holder
554	R. H. Cut-off Tool Holder
555	Knurling Tool
556	Boring Tool Holder
557	Straight Cut-off Tool Holder
558	Carbide Tipped Formed Bits
560	HSS Blank Bits
561	HSS Formed Bits
563	Thread Cutter
564	Extra Cut-off Blade
565	Extra Knurls
570 A	Boring Bar, 1/4"
570 B	Boring Bar, 3/16"
570 C	Boring Bar, 1/4"
570 D	Boring Bar, 5/16"
570 E	Boring Bar, 3/8"
575 A	Countersink, 1/16"
575 B	Countersink, 3/32"
575 C	Countersink, 1/8"
580 A	Lathe Dog, 3/8"
580 B	Lathe Dog, 1/2"
580 C	Lathe Dog, 3/4"
580 D	Lathe Dog, 1 1/4"
585	Clamp Lathe Dog
595	Anti-friction Center