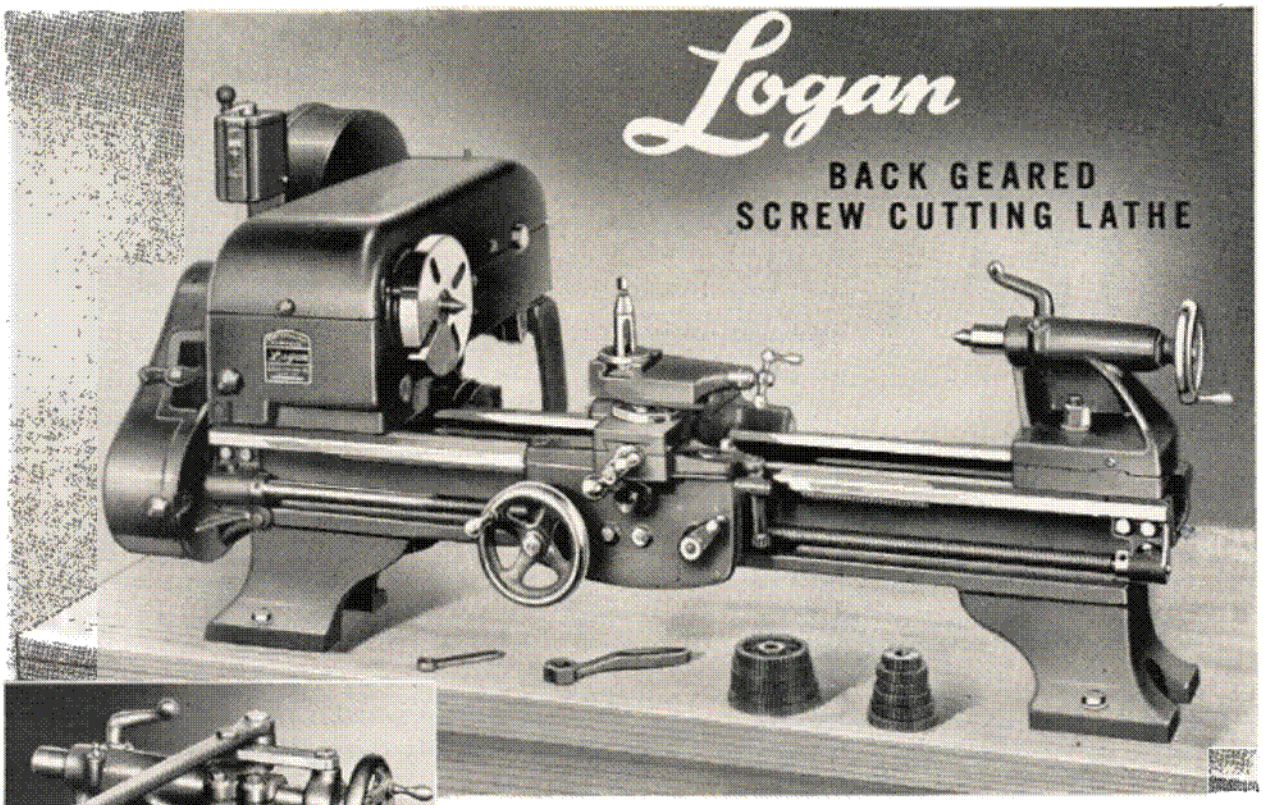
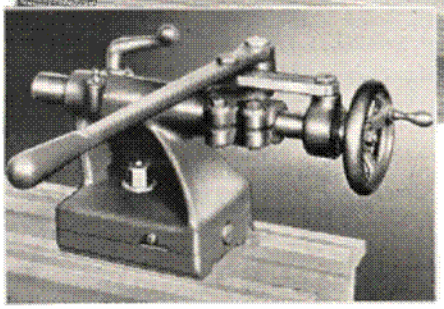
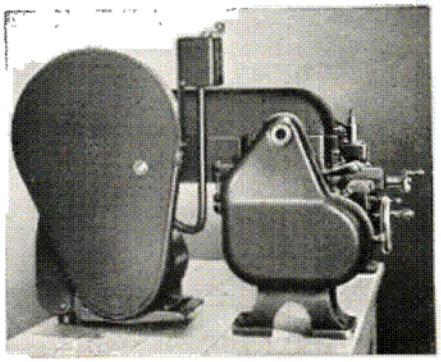




AC-241 LEVER TAILSTOCK ASSEMBLY

Will be furnished with the bench lathe in place of the regular tailstock when specified. Lever stroke, 2¾". Hand wheel spindle travel, 2⅜". Fitted for No. 2 Morse Taper Shank.



END VIEW, SHOWING COUNTERSHAFT ASSEMBLY

When cone pulley guard is raised, belt tension is automatically released for quick belt change.

10" Swing; 24" Between Centers
10" Swing; 31" Between Centers

No. 210 Complete As Shown, Less Motor, F.O.B. Chicago.

No. 210-1 Complete with No. AC-241 Lever Tailstock Assembly Replacing Regular Tailstock, Less Motor, F.O.B. Chicago.

No. 211 (Same as No. 210, but 31" between centers.)

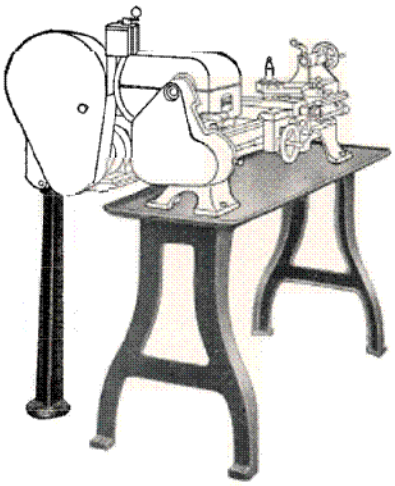
The Nos. 210, 210-1 and 211 Logan Back Geared Screw Cutting Lathes are fine production tools developed for the machine shop requiring a high speed lathe of sustained accuracy. Advanced design, sound engineering, expert workmanship and rigid inspection all contribute to their excellent performance. Specifications include such superior features as pre-loaded, grease-sealed precision ball bearing spindle mountings, patented countershaft assemblies with three point suspension and rubber mountings; precision ground ways—2 prismatic V-ways and 2 flat ways. The same features are also available in the Logan No. 200 and 201 floor model lathes.

COUNTERSHAFT ASSEMBLY

The patented countershaft assembly used in these machines is carried on a three point suspension and is completely insulated by rubber at all points of contact to prevent vibration being transmitted to the lathe.

All pulleys and belts are completely guarded yet readily accessible. The entire unit is designed to appear as a streamlined part of the lathe.

LOGAN ENGINEERING CO. • CHICAGO 30, ILL.



PAN, LEGS AND PEDESTAL

EASILY CONVERTED INTO FLOOR MODEL

The Logan No. 210 Bench Model Lathe is quickly and easily converted into a floor model by simply mounting the lathe on the legs, pan and countershaft pedestal as shown in the illustration at left.

No. 415 Set . . . legs chip pan, 1" deep, and pedestal leg. For lathes 24" between centers.

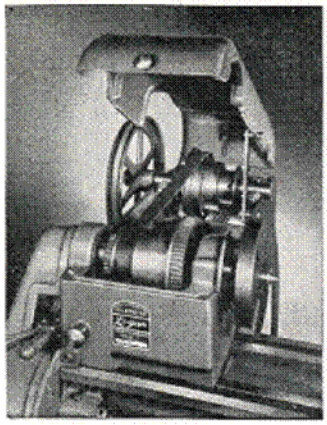
No. 418 Set . . . legs, drip pan 1½" deep, and pedestal leg. For lathes 24" between centers.

No. 417 Set . . . same as No. 418, except built for lathes 31" between centers.

BALL BEARING HEADSTOCK

When the cone pulley guard is raised as shown at right, belt tension is automatically released for quick belt change.

The ball bearing spindle mounting is advanced design that is more expensive and produces finer results. New Departure grease sealed, pre-loaded bearings give greater accuracy, less friction, less wear and require no adjustment or lubrication.



HEADSTOCK AND COUNTERSHAFT WITH GUARD RAISED

Collet capacity ⅝" with push type collets used in Logan No. AC-210 Production Collet Chuck or No. AC-201 Speed Collet Chuck.

Collet capacity ½" with draw-in collets used in Logan AC-165 Production Collet Chuck or Logan No. AC-151 Draw in Collet Chuck.

NOTE: Push type collets give greater capacity, have greater holding power and close concentrically on the work without pulling it away from the stop.

SPECIFICATIONS

CAPACITY OF LATHE

Swing over bed and saddle wings . . . 10½"
Swing over saddle cross slide . . . . . 6⅛"
Distance between centers . . . . . 24"

THREADS AND FEEDS

Reversible power longitudinal feed
Reversible power cross feed
Lead Screw diameter and threads per in. . . . . ¾"-8
Threads—46 selections RH or LH . . . . . 4-216 per in.
Independent change gears—17 furnished (6 on Lathe and 11 extra)
Width of face of change gears . . . . . $\frac{7}{16}$"

BED

Width of bed across ways . . . . . $6\frac{15}{16}$"
Bed Length (No. 210 and 210-1) . . . 43⅛"
Bed length (No. 211) . . . . . 50"
Precision ground ways: 2 prismatic "V" ways and 2 flat ways.

HEADSTOCK AND SPINDLE

Front bearing—double row ball bearing.
Rear bearing—single row ball bearing.
Note: Sealed, pre-loaded New Departure Ball Bearings of the highest precision type are used.
Back gear shaft bearings—self lubricating bronze bearings.
Hole through spindle . . . . . $\frac{25}{32}$"
Morse Taper with adaptor . . . No. 3-No. 2
Size of centers used, Morse Taper . . . No. 2
Spindle nose diameter and threads per in. . . . . 1½"-8
Width of cone pulley steps for belt . . . 1"
Width of face of bull gear and back gears . . . . . ⅝"
Face plate diameter . . . . . 6"
Number of spindle speeds 12
Spindle speeds, back gears engaged . . . 30 56 70 104 131 244
Spindle speeds, direct belt driven . . . 179, 334, 420, 620, 780, 1450

CARRIAGE AND COMPOUND REST

Cross slide graduated in thousandths. Travel . . . . . 6¼"
Cross feed screw mounted on self-lubricating bronze bearings.
Compound rest top slide graduated in thousandths. Travel . . . . . 2¼"
Top slide screw mounted on self-lubricating bronze bearings.
Compound rest swivel — graduated 90° in both directions.
Tool post opening for tool holder shank . . . . . ⅜x¾"
Size of cutter bits used . . . . . ¼" sq.

TAILSTOCK

Spindle travel . . . . . 2⅜"
Spindle graduations . . . . . $\frac{1}{16}$"
Morse Taper center . . . . . No. 2
Tailstock top will set over for taper turning . . . . . $\frac{11}{16}$"

COUNTERSHAFT ASSEMBLY (Included in Price of Lathe)

2 Speed "V" Motor Pulley ⅝" Bore . . . . . 2⅜"-4"
2 Speed countershaft flat pulley . . . . . 8⅝"x9⅞"
40"x½" V Belt used on flat of 2 step countershaft pulley and in V of motor pulley.
3 Step flat belt cone pulley mounted on countershaft. Width of step face . . . . 1"
Countershaft mounted on self-lubricating bronze bearings.
Adjustable motor mounting bracket furnished with countershaft assembly.
Countershaft assembly independently supported on patented 3 point suspension.
Countershaft assembly completely insulated with rubber to prevent vibration being transmitted to lathe.
Countershaft and all pulleys completely enclosed and guarded.
Automatic belt tension release when guard for cone pulleys is raised to change belt steps.

LATHE EQUIPMENT (Included in Price of Lathe)

1	6" Face Plate	1	No. 3-No. 2 Morse Taper Adaptor
2	60° Centers		
17	Change Gears	1	Tool Post Holder and Wrench
1	Threading Dial		
1	Threading Chart	1	Tailstock Wrench

Parts List and Instruction Book

SELF LUBRICATING BRONZE BEARINGS

at 24 separate points in lathe where plain bearings are ordinarily furnished.

OVERALL DIMENSION (Including Countershaft Assembly)

Length (No 210 and 210-1) . . . 54"
Length (No. 211) . . . 61"
Width . . . . . 30"
Height . . . . . 21"

MOTOR

Uses ½ H.P. 1750 R.P.M. Motor
If lathe is ordered without motor specify.
1. Bore of motor pulley to be furnished with lathe.
2. State whether 0636 or 0639 Drum Switch should be supplied. (See Accessory Circular for description of drum switch.)

SHIPPING WEIGHT

No 210 and 210-1 Logan Lathe with countershaft assembly, less motor . . . 400 lbs
No. 211, with countershaft assembly, less motor . . . 437 lbs.

102447—12M

PRINTED IN U.S.A.