

With smooth power, a 12" Logan Lathe
hogs out a .375" cut from bar stock.

Logan

LATHES • SHAPERS • ACCESSORIES

LOGAN ENGINEERING CO. LAWRENCE AND LAMON AVE. CHICAGO 30, ILL.

LOOK TO LOGAN FOR **BETTER** LATHES AND SHAPERS

www.OzarkToolManuals.com

Logan

12 INCH LATHES

OFFER STANDARD V-BELT DRIVE



Outboard V-belt Drive

This standard drive is furnished on Logan 12" Lathes unless the Variable Speed Drive is specified. Double V-belts transmit power to headstock with maximum efficiency and are easily accessible for adjustment and belt replacement.

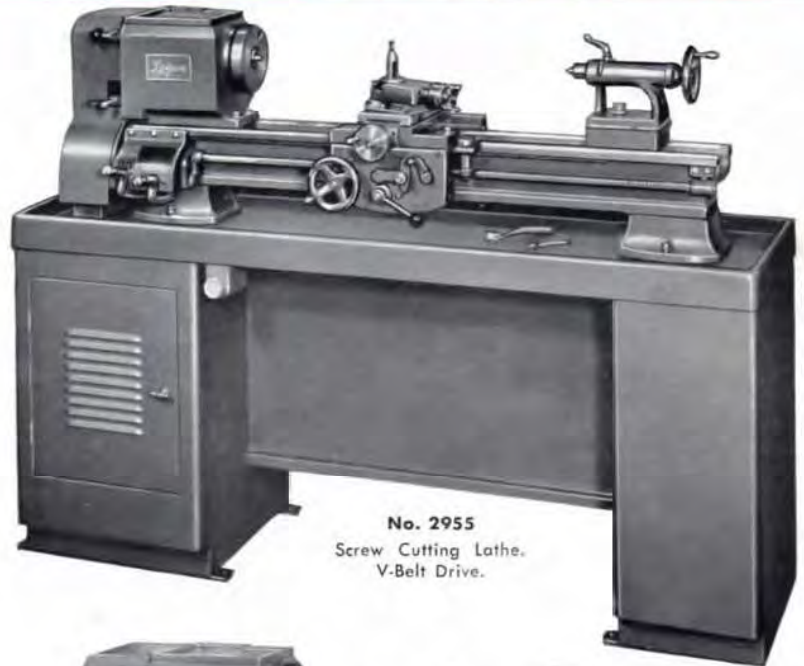


BALL BEARING UNDERNEATH V-BELT DRIVE

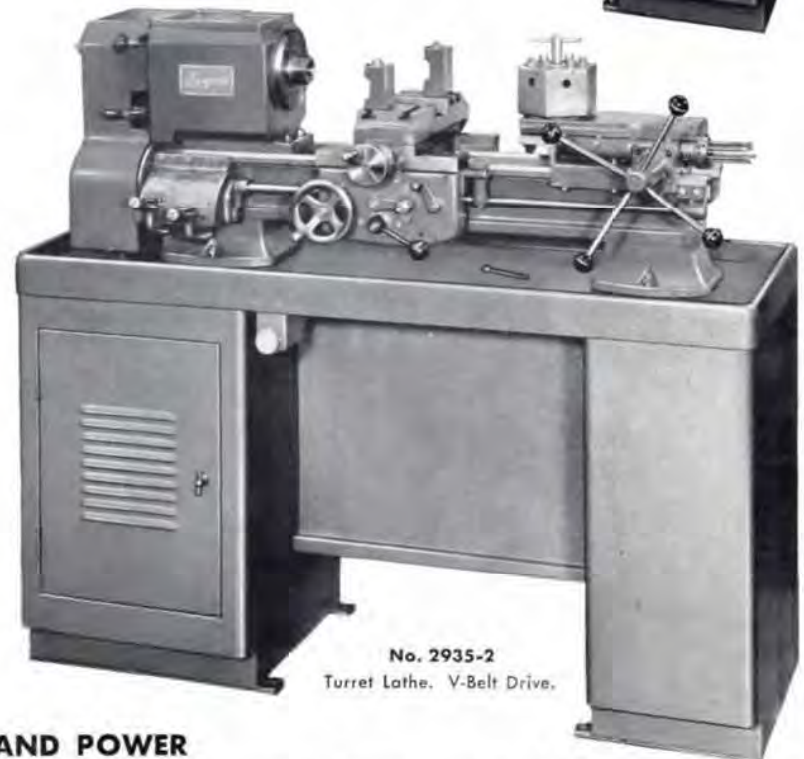
The motor drive assembly of Logan Cabinet model lathes is completely self contained and is enclosed in the compartment below the headstock. The jackshaft and countershaft turn on ball bearing mountings. Belt tension is easily released by the lever on the right side of the compartment. Motor and all parts of the drive are easily accessible.

COMBINE ACCURACY, CAPACITY AND POWER

Except for driving mechanisms, the 12" Logan Lathes shown on these pages are identical in advanced design, and rugged, accurate construction. They have the same massive headstock, with easily accessible back gear shifting lever and convenient tray top. They have the newest Logan ball bearing spindle of 52-100 heat treated steel massively proportioned for extreme rigidity on heavy cuts and perfectly adapted to the use of high speed, carbide tipped cutting tools. With its oversize ball bearings, which need no adjustment throughout the wide speed range, the spindle assures sustained accuracy in all types of lathe



No. 2955
Screw Cutting Lathe.
V-Belt Drive.



No. 2935-2
Turret Lathe. V-Belt Drive.

operation. They have the Logan warp-free bed, machined from an extra heavy special alloy casting with oversize ribs. The bed's balanced sections of even thickness neutralize internal stresses. The two V-ways and two flat ways are precision ground to a tolerance of .0005". The new precision carriage on these lathes is of latest design and combines convenience, rigidity, accuracy and durability. With 12" swing, 1" collet capacity, 1-3/8" spindle hole, and center distances of 23" and 35", these 12" Logans have the capacity to handle the bulk of any shop's lathe work of every type. All models have quick change gears.

. OR VARIABLE SPEED DRIVE

VARIABLE SPEED DRIVE PROVIDES MAXIMUM OPERATING FLEXIBILITY

Recognizing that the time-saving speed correction of the variable speed drive is important where the work handled requires a variety of spindle speeds, Logan designers have equipped the 12" Logan Lathe with a Variable Speed Transmission, as an optional feature. Variable Speed Drive models are available at the same price as standard V-belt drive models.

SAVES TIME . . .

To obtain precisely the correct speed, the lathe operator simply turns the Variable Speed Drive control handle, while the lathe is running. No need to stop the lathe. No shifting of belts.

ASSURES OPTIMUM SURFACE SPEEDS

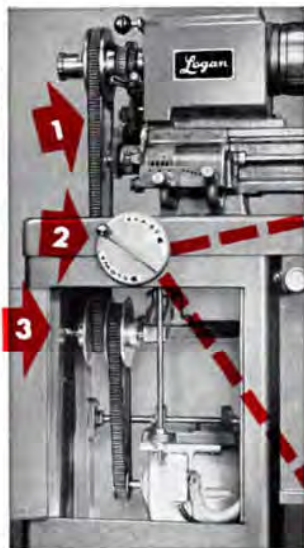
With the Variable Speed Drive, the operator easily maintains precisely the proper surface speeds on large diameter facing work . . . simply adjusting the spindle speed as the cutter goes into the work.

ANY SPEED FROM 38 TO 1575 RPM

The Logan Variable Speed Drive permits a wider spindle speed range than the standard drive, with an infinite number of speeds between the high and low. In back gear, the speed range is 38 to 295 rpm. In direct drive, the speed range is 250 to 1575 rpm.

EASY TO CONTROL AND MAINTAIN

The large control handle makes the most precise speed adjustment simple on the Logan Variable Speed Drive. 12 complete turns of the handle changes the speed from lowest to the highest rpm.



PRINCIPAL PARTS OF THE VARIABLE SPEED DRIVE

- 1** Upper Section showing spindle V-pulley and Vari-Speed belt.
- 2** Vari-Speed Control.
- 3** Lower section, showing Variable Speed V-Pulleys and Vari-Speed belts.

A brass spindle-speed chart mounted on the gear guard provides clearly marked settings for various speeds. The variable speed pulleys are piston-alloy aluminum. Power is transmitted by one 38" and one 60" oil-proof, heat resistant Vari-Speed belt, both belts specially designed and easily replaced. A single oil cup provides the lubrication required for the complete unit.

In ordering a 12" Logan Lathe equipped with the Variable Speed Drive, simply add the letter "V" to the model number. This addition indicates your preference for the variable speed drive instead of the standard drive. Examples . . . 2955-V, 2957-V, 2935-V, or 2935-2-V.



No. 2955-V
Screw Cutting Lathe.
Variable Speed Drive.



No. 2935-2-V
Turret Lathe. Variable Speed Drive.

ALL *Logan* 12" SWING LATHES HAVE THESE ADVANCED DESIGN FEATURES

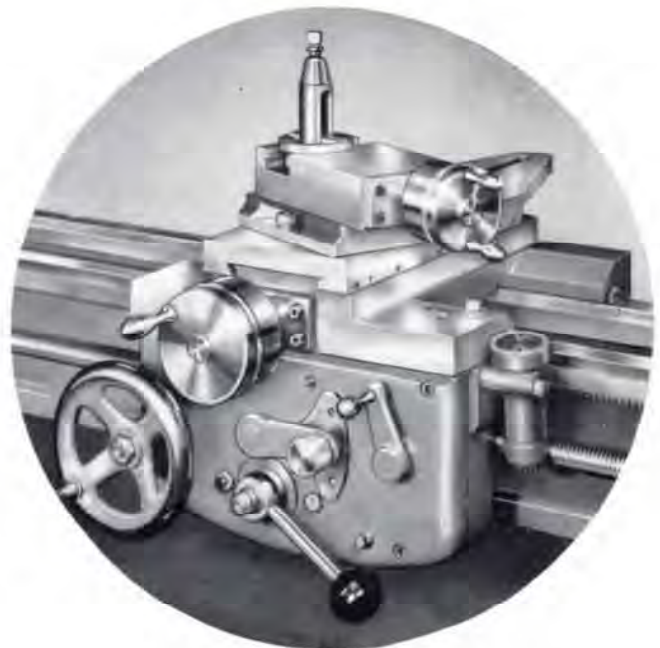


BALL BEARING SPINDLE

The Logan lathe spindle turns on a New Departure Ball Bearing mounting that assures sustained accuracy and permits using high speed carbide tipped cutting tools to full advantage. Total spindle runout is held to within .0005" twelve inches out from the front bearing. No bearing adjustment is needed for any spindle speed within the wide rpm range standard on the various Logan lathe models. The massively proportioned spindle shown above is a factor in providing the extreme rigidity of the Logan 12" lathe on heavy cuts. Note the double rows of oversize ball bearings. Spindles of Logan 9", 10", and 11" lathes are built to the same basic advanced design.

PRECISION BUILT CARRIAGE

The Logan lathe carriage combines convenience, rigidity, accuracy and durability. The disc type clutch is easily handled by a convenient lever. On the 12" lathe carriage shown at right, the dials are extra large, with easily read, widely separated graduations to permit the most accurate readings. Extra wide, extra long, precision-ground top surfaces on cross slide and saddle enable the lathe operator to set gauges and indicators in correct positions to check work accuracy. Extra heavy compound for rigidity. Similarly advanced in design is the carriage of Logan 10" and 11" lathes listed on following pages. Longitudinal and cross feeds operate from spline in lead screw through worm drive and friction clutch. For thread cutting, an additional half nut drive from the lead screw is available. An automatic lock prevents either feed from operating while the other is engaged.



RUGGED, ACCURATE BED

The beds of all Logan lathes are machined from extra heavy, special alloy castings with oversize ribs. Balanced sections of even thickness neutralize internal stresses. Thorough seasoning before and between every machining operation makes every Logan lathe bed warp-free. The two V-ways and two flat ways are precision ground to a tolerance of .0005".

SPECIFICATIONS

FOR 12 INCH LOGAN LATHES

CAPACITY OF LATHE

Swing over bed and saddle wings.....12"
 Swing over saddle cross slide.....6-9/16"
 Center Distance....23" (2955)....35" (2957)

THREADS AND FEEDS

Quick Change Gear Box and Automatic Apron
 Worm Drive from lead screw spline for Power feeds
 Longitudinal feed .0018" to .1000" per spindle revolution
 Cross feed .25 times longitudinal feed
 Half nut drive from lead screw thread for thread cutting
 Threads 48 selections RH or LH—4 to 224 per inch
 Lead screw diameter and threads per inch— $\frac{3}{4}$ "-8

HEADSTOCK AND SPINDLE

Spindle Bearings: (4) Sealed, Precision New Departure
 Hole through Spindle: 1 $\frac{3}{8}$ "
 Spindle Nose diameter and threads per inch: 2 $\frac{1}{4}$ "-8
 Drive Plate Diameter: 6"
 Number of Spindle Speeds: 15
 Spindle Speeds, direct drive — 228, 318, 414, 576, 490, 676, 888, 1230 rpm
 Spindle Speeds, Back gears engaged — 35, 50, 65, 90, 77, 107, 139, 193 rpm
 With Variable Speed Drive — Infinite spindle speeds — 38 to 1575 rpm
 Spindle Nose Adapter to #2 Morse

CROSS SLIDE AND COMPOUND REST, SCREW CUTTING LATHE

Cross Slide Travel: 6 $\frac{1}{4}$ "
 Compound Rest Travel: 2 $\frac{1}{4}$ "
 Compound Rest graduated 90° in both directions
 Tool Post Opening for Tool Holder: $\frac{3}{8}$ " x $\frac{3}{4}$ "
 Size of cutter bits: $\frac{1}{4}$ " sq.

CROSS SLIDE, TURRET LATHE

Cross slide travel: 6 $\frac{3}{8}$ "
 Cross slide graduated in thousandths
 Cross feed screw mounted on self lubricating bronze bearings
 Adjustable double tool post with adjustable wedges
 Tool post slots: 7/16" x 1-9/16"

Lathe No.	SCREW CUTTING LATHES	Wt. (lbs.)
2955	Quick Change, Pedestal Cabinet Model, 23" Centers, V-Belt Drive.....	950
2955-V	Quick Change, Pedestal Cabinet Model, 23" Centers, Variable Speed Drive	950
2957	Quick Change, Pedestal Cabinet Model, 35" Centers, V-Belt Drive.....	1010
2957-V	Quick Change, Pedestal Cabinet Model, 35" Centers, Variable Speed Drive	1010

TURRET LATHES

2935	Quick Change, Pedestal Cabinet Model, 43" Bed, Lever Turret, V-Belt Drive	1105
2935-V	Quick Change, Pedestal Cabinet Model, 43" Bed, Lever Turret, Variable Speed Drive	1105
2935-2	Quick Change, Pedestal Cabinet Model, 43" Bed, Pilot Wheel Turret, V-Belt Drive	1115
2935-2-V	Quick Change, Pedestal Cabinet Model, 43" Bed, Pilot Wheel Turret, Variable Speed Drive.....	1115

BED

Width of bed across ways: 6-15/16"
 Length of bed (2955)...43 $\frac{1}{8}$ " (2957)...55 $\frac{1}{8}$ "
 Precision ground ways, 2 prismatic "V" ways and 2 flat ways

TAILSTOCK

Spindle Travel4"
 Spindle Graduations1/16"
 Morse Taper Center#2
 Tailstock set-over for Taper turning, 11/16"

TURRET

Distance across flats: 5 $\frac{1}{4}$ "
 Six position, self indexing with adjustable stops
 Turret holes, diameter $\frac{3}{8}$ " regular— $\frac{3}{4}$ " on special order
 Turret holes bored from headstock of lathe
 Maximum stroke of turret—4 $\frac{1}{4}$ "

UNDERNEATH DRIVE

Two step drive—Motor Pulley to Countershaft
 V-belt B section Belt size 40 x $\frac{5}{8}$ inches
 Four step drive Countershaft to Jackshaft
 V-belt B section Belt size 30 x $\frac{3}{8}$ inches
 Double V Belt Drive—Jackshaft to Spindle
 B section belt, belt size 60 x $\frac{3}{8}$ inches
 Jackshaft and Countershaft mounting—Ball Bearings

MOTOR AND SWITCH

Use $\frac{3}{4}$ or 1 HP motor 1750 rpm
 Drum type reversing switch furnished

LATHE EQUIPMENT INCLUDED WITH LATHE

1 6" Drive Plate
 2 60° Centers
 1 Threading Dial
 1 Threading Chart
 1 #2 Morse Taper Adapter Sleeve
 1 Tool Post and Wrench
 1 Tailstock Wrench
 1 Drum Reversing Switch
 1 Motor Pulley
 Parts List and Instruction Book

OVERALL DIMENSIONS

# 2955	# 2957
Length59"	Length70 $\frac{1}{2}$ "
Width21"	Width21"
Height49"	Height49"



No. 2955
Screw Cutting Lathe, V-Belt Drive.



No. 2935-2
Turret Lathe, V-Belt Drive.



No. 2955-V
Screw Cutting Lathe, Variable Speed Drive.



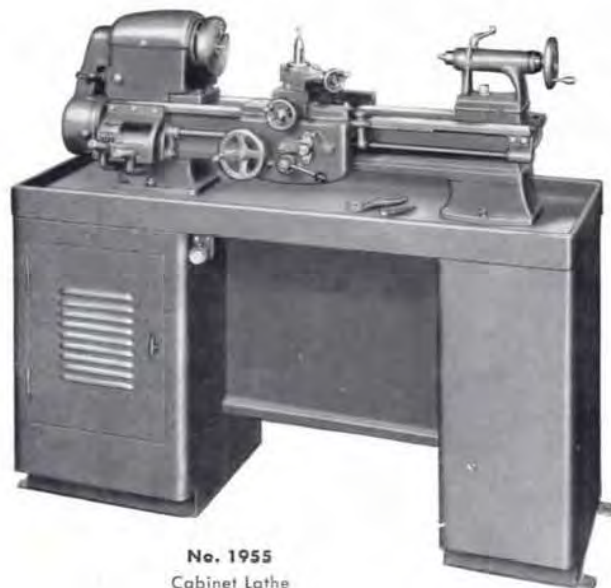
No. 2935-2-V
Turret Lathe, Variable Speed Drive.

Logan 11" SWING LATHES

- 16 Speed V-Belt Drive
- Ball Bearing Headstock
- Ball Bearing Countershaft
- Precision Ground V-Way Bed
- Automatic Apron with lever operated disc type clutch

Accurate, Versatile, Durable, Convenient

These lathes have the capacity that goes with 11" swing, 1" collet, 1 $\frac{3}{8}$ " spindle hole, and center distances of 24" and 36". They have the sustained accuracy that results from the Logan ball bearing spindle, and the rugged, two-V-way, two flat way bed with ways precision ground to a tolerance of .0005". They have the advanced design and rugged construction that insure the extra long service life for which Logan Lathes are known.



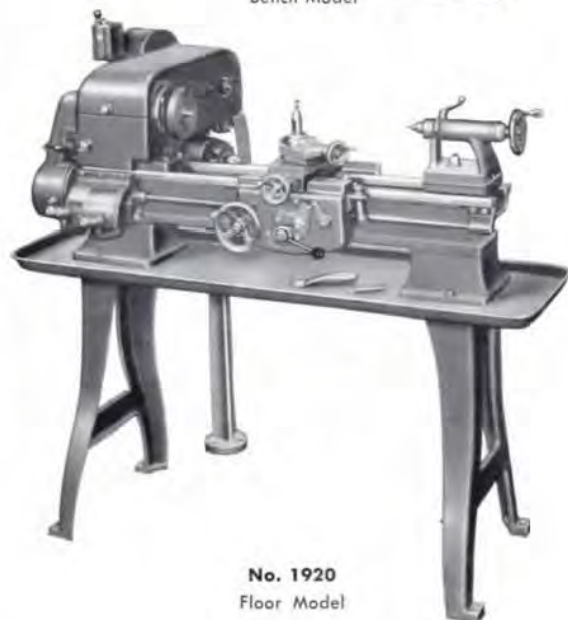
No. 1955
Cabinet Lathe



No. 1935-2
Cabinet Turret Lathe With Pilot Wheel Turret



No. 1915
Bench Model



No. 1920
Floor Model



No. 1940-2
Turret Lathe With Pilot Wheel
Turret

S P E C I F I C A T I O N S

FOR 11 INCH LOGAN LATHES

CAPACITY OF LATHE

Swing over bed and saddle wings.....11 1/8"
 Swing over saddle cross slide screw cutting lathes.....6 1/8"
 Swing over saddle cross slide turret lathe.....4 1/2"

THREADS AND FEEDS

Quick change gear box and automatic apron
 Worm drive from lead screw spline for power feeds
 Friction clutch on power feeds
 Longitudinal feed .0018" to .1000" per spindle revolution
 Cross feed .25 times longitudinal feed
 Half nut drive from lead screw thread for thread cutting
 Threads—48 selections RH or LH—4 to 224 per inch
 Lead screw diameter and threads per inch 3/4"-8

BED

Width of bed across way.....6-15/16"
 Length43 1/8" and 55 1/8"
 Precision ground ways; 2 prismatic "V" ways and 2 flat ways

HEADSTOCK AND SPINDLE

Spindle Bearings: Sealed New Departure Ball Bearings, precision type with preloading
 Hole through spindle—1 3/8"
 Draw-in collet capacity.....1"
 Spindle Nose Diameter and threads per inch: 2 1/4"-8
 Width of face of bull gear and back gears: 3/4"
 Face plate diameter: 6"
 Number of spindle speeds: 16. 45-1500 rpm
 Spindle speeds, direct drive: 325, 385, 470, 535, 885, 1020, 1230 and 1430 rpm
 Spindle speeds, back gears engaged: 50, 62, 75, 90, 145, 170, 200 and 235 rpm

CROSS SLIDE AND COMPOUND REST, SCREW CUTTING LATHE

Cross Slide Travel 6 1/4"
 Cross Slide graduated in thousandths
 Cross feed screw mounted on self lubricating bronze bearings
 Compound Rest Travel 2 1/4"
 Compound rest graduated in thousandths
 Compound 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.

CROSS SLIDE, TURRET LATHE

Cross Slide Travel 6"
 Cross Slide graduated in thousandths
 Cross feed screw mounted on self lubricating bronze bearings
 Adjustable double tool post with adjustable wedges
 Tool post slots 7/16" x 1-9/16"

TAILSTOCK

Spindle Travel: 4"
 Spindle Graduations: 1/16"
 Morse Taper center: No. 2
 Tailstock set-over for taper turning: 11/16"

TURRET

Distance across flats 5 1/4"
 Six position, self indexing with adjustable stops
 Turret holes, diameter 3/8" regular—3/4" on special order
 Turret holes bored from headstock of lathe
 Maximum stroke of turret—4 1/4"

COUNTERSHAFT ASSEMBLY—FLOOR AND BENCH MODELS

All "V" belt drive
 Two step motor pulley—Four step countershaft pulley
 Countershaft mounted on ball bearings
 Adjustable motor mounting bracket
 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

UNDERNEATH DRIVE (Pedestal Models)

Two step motor pulley to countershaft drive, B section V-belt, Belt size, 40" x 3/8"
 Four step countershaft to jackshaft drive, B section V-belt, Belt size, 30" x 3/8"
 Double V-belt drive, Jack shaft to spindle, A section V-Belts, Belt sizes, 49" x 1/2"
 Jack shaft and countershaft mounting—Ball Bearing

MOTOR

3/4 HP Ball Bearing, 1750 RPM Motor is recommended
 If lathe is ordered without motor, specify bore of motor pulley to be furnished with lathe

LATHE EQUIPMENT

1 6" Drive Plate	1 Spindle Nose Taper Adaptor
2 60° Centers	No. 2 M.T.
1 Threading Dial	1 Tailstock Wrench
1 Threading Chart	1 Tool Post and Wrench
1 Drum Reversing Switch	1 Motor Pulley

Parts List and Instruction Book

OVERALL DIMENSIONS

Model 1920 — L 54"	W 30"	H 48 1/2"
Model 1922 — L 66"	W 30"	H 48 1/2"
Model 1955 — L 59"	W 21"	H 48 3/4"
Model 1957 — L 70 1/4"	W 21"	H 48 3/4"

SCREW CUTTING LATHES

Lathe No.		Ship. Wt. (Lbs.)
1915	Quick Change, Bench Model, 24" Centers, V-Belt Drive.....	505
1917	Quick Change, Bench Model, 36" Centers, V-Belt Drive.....	550
1920	Quick Change, Floor Model, 24" Centers, V-Belt Drive.....	615
1922	Quick Change, Floor Model, 36" Centers, V-Belt Drive.....	665
1955	Quick Change, Pedestal Cabinet Model, 24" Centers, V-Belt Drive.....	810
1957	Quick Change, Pedestal Cabinet Model, 36" Centers, V-Belt Drive.....	870

TURRET LATHES

1935	Quick Change, Pedestal Cabinet Model, 43" Bed, Lever Turret, V-Belt Drive.....	865
1935-2	Quick Change, Pedestal Cabinet Model, 43" Bed, Pilot Wheel Turret, V-Belt Drive.....	875
(1935 and 1935-2 are same as 1955 but with turret and double tool post cross slide in place of tailstock and compound rest)		
1940	Quick Change, Floor Model, 43" Bed, Lever Turret, V-Belt Drive.....	670
1940-2	Quick Change, Floor Model, 43" Bed, Pilot Wheel Turret, V-Belt Drive.....	680
(1940 and 1940-2 are same as 1920 but with turret and double tool post cross slide in place of tailstock and compound rest)		

Logan 10" SWING LATHES



No. 1810
Screw Cutting Lathe



No. 1805
Bench Model Lathe



No. 1820
Quick Change Gear
Screw Cutting Lathe



No. 1815
Bench Model Quick
Change Gear Lathe

FOR SMALL TO MEDIUM WORK IN INDUSTRY AND SCHOOLS

Industrial shops and production lines reduce costs and improve efficiency by concentrating small and medium work on Logan 10" Lathes. School shops find these versatile, rugged tools ideal for training. Ball bearing spindle mountings; rugged two V-way, two-flat-way beds precision ground to a tolerance of .0005"; self-lubricating bronze bearings at vital wear points . . . are typical of the features that make these 10" Logans outstanding performers. The cabinet model No. 1875, shown above at right, has 16 spindle speeds from 38 to 1230 rpm. All other models in the 10 inch swing line have a spindle speed range of 55 to 1430 rpm.



No. 1875
Quick Change Gear
Cabinet Lathe



No. 1840-2
Quick Change Gear
Turret Lathe With
Pilot Wheel Turret



No. 1830-2
Hand Screw Machine
With Pilot Wheel
Turret



No. 1850-2
Manufacturing Turret
Lathe With Pilot
Wheel Turret

S P E C I F I C A T I O N S

FOR 10 INCH LOGAN LATHES

CAPACITY OF LATHE

Swing over bed	10 1/2"
Swing over saddle cross slide—screw cutting lathes.....	6 1/8"
Distance between centers.....	24" or 31"
Swing over saddle cross slide, turret lathe.....	4 1/2"

THREADS AND FEEDS (Quick Change Models)

Quick change gear box and automatic apron
 Worm drive from lead screw spline for power feeds
 Friction clutch on power feeds
 Longitudinal feed .0018" to .1000" per spindle revolution
 Cross feed .25 times longitudinal feed
 Half nut drive from lead screw thread for thread cutting
 Threads—48 selections RH or LH—4 to 224 per inch.

THREADS AND FEEDS (Plain Change Models)

Reversible power longitudinal feed
 Reversible power cross feed
 Threads—46 selections RH or LH—per inch.....4-216
 Independent change gears—17 furnished (6 on Lathe and 11 extra)

BED

Width of bed across ways.....6-15/16"
 Bed length.....43 1/8" or 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
 Hole through spindle.....25/32"
 Draw-in collet capacity.....1/2"
 Morse Taper with adaptor, No. 3—No. 2
 Size of centers used, Morse Taper No. 2
 Spindle nose diameter and threads per in. 1 1/2"-8
 Number of spindle speeds (except No. 1875).....12
 Number of spindle speeds (No. 1875).....16
 Spindle Speeds (all 10" lathes except No. 1875)
 direct drive:—330, 425, 550, 880, 1100, and 1430 rpm.
 back gears:—55, 70, 90, 145, 185, and 240 rpm.
 Spindle Speeds (for No. 1875 cabinet model only)
 direct drive:—228, 318, 414, 576, 490, 676, 888 and 1230 rpm.
 back gear drive:—38, 53, 69, 96, 82, 112, 148 and 205 rpm.

CROSS SLIDE AND COMPOUND REST, SCREW CUTTING LATHE

Cross slide graduated in thousandths—Travel.....6 1/4"
 Compound rest top slide graduated in thousandths—Travel, 2 1/4"
 Compound rest swivel—graduated 90° in both directions
 Tool post opening for tool holder.....3 3/8 x 3/4"
 Size of cutter bits used.....1/4" sq.

CROSS SLIDE, TURRET LATHE

Cross slide travel; 6"
 Cross slide graduated in thousandths
 Cross feed screw mounted on self lubricating bronze bearings
 Adjustable double tool post with adjustable wedges
 Tool post slots: 7/16" x 1-9/16"

TAILSTOCK

Spindle travel.....2 7/8"
 Spindle graduations.....1/16"
 Morse Taper center.....No. 2
 Tailstock set over for taper turning.....11/16"

TURRET

Distance across flats: 5 1/4"
 Six position, self indexing with adjustable stops
 Turret holes, diameter 5/8" regular—3/4" on special order
 Turret holes bored from headstock of lathe
 Maximum stroke of turret—4 1/4"

COUNTERSHAFT ASSEMBLY (Floor or Bench Models)

All "V" belt drive
 Two step motor pulley—Three step countershaft pulley
 Countershaft mounted on ball bearings
 Adjustable motor mounting bracket
 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

UNDERNEATH DRIVE (Pedestal Model)

Two step motor pulley to countershaft drive.
 B Section V-belt, Belt size, 40" x 5/8"
 Four step countershaft to jackshaft drive.
 B section V-belt, Belt size, 30 x 3/8"
 Double V-belt drive, Jack shaft to spindle.
 A section V-belts, Belt sizes, 49" x 1/2"
 Jack shaft and countershaft mounting—Ball bearing

MOTOR

Use 1/2 H.P. 1750 R.P.M. motor with sleeve bearings

LATHE EQUIPMENT

1 6" Face Plate	1 No. 3—No. 2 Morse Taper Adaptor
2 60° Centers	1 Tool Post and Wrench
17 Change Gears	1 Tailstock Wrench
1 Threading Dial	1 Motor Pulley
1 Threading Chart	Parts List and Instruction Book
1 Drum Reversing Switch	

OVERALL DIMENSIONS

Model 1820—L54"	W30"	H48 1/2"
Model 1821—L61"	W30"	H48 1/2"
Model 1875—L55 1/2"	W20 1/2"	H48"

Lathe No.	SCREW CUTTING LATHES	Ship. Wt. (Lbs.)
1805	Plain Change, Bench Model, 24" Centers, V-Belt Drive.....	410
1806	Plain Change, Bench Model, 31" Centers, V-Belt Drive.....	440
1810	Plain Change, Floor Model, 24" Centers, V-Belt Drive.....	510
1811	Plain Change, Floor Model, 31" Centers, V-Belt Drive.....	545
1815	Quick Change, Bench Model, 24" Centers, V-Belt Drive.....	435
1816	Quick Change, Bench Model, 31" Centers, V-Belt Drive.....	470
1820	Quick Change, Floor Model, 24" Centers, V-Belt Drive.....	540
1821	Quick Change, Floor Model, 31" Centers, V-Belt Drive.....	575
1875	Quick Change, Pedestal Cabinet Model, 24" Centers, V-Belt Drive.....	735

TURRET LATHES

1830	Hand Screw, Floor Model, 43" Bed, Lever Turret, V-Belt Drive.....	540
1830-2	Hand Screw, Floor Model, 43" Bed, Pilot Wheel Turret, V-Belt Drive.....	550
1835	Quick Change, Pedestal Cabinet Model, 43" Bed, Lever Turret, V-Belt Drive.....	790
1835-2	Quick Change, Pedestal Cabinet Model, 43" Bed, Pilot Wheel Turret, V-Belt Drive..... (1835 and 1835-2 are same as 1875 but with turret and double tool post cross slide in place of tailstock and compound rest)	800
1840	Quick Change, Floor Model, 43" Bed, Lever Turret, V-Belt Drive.....	590
1840-2	Quick Change, Floor Model, 43" Bed, Pilot Wheel Turret, V-Belt Drive..... (1840 and 1840-2 are same as 1820 but with turret and double tool post cross slide in place of tailstock and compound rest)	600
1850	Plain Change, Floor Model, 43" Bed, Lever Turret, V-Belt Drive.....	560
1850-2	Plain Change, Floor Model, 43" Bed, Pilot Wheel Turret, V-Belt Drive..... (1850 and 1850-2 are same as 1810 but with turret and double tool post cross slide in place of tailstock and compound rest)	570

**SPECIAL
ACCESSORIES FOR
LOGAN 9" LATHES**



**DRAW-IN
COLLET CHUCK ATTACHMENTS**

For work 1/16" to 1/2" diam. 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. Lever stroke, 2 1/2". Handwheel spindle travel 2 3/8". Fitted for No. 2 Morse Taper. When ordered with lathe, it is factory fitted to lathe bed. Shipping weight, 25 lbs.

No. AC-240 Lever Tailstock.



MICA UNDERCUTTER

Mounts on back of the cross slide. Lifting the lever swings the entire upper part of the assembly out of the way to permit trueing the armature without removing the undercutter. Accommodates 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. Ship. wt., 8 lbs.

No. 486 Mica Undercutter.

CENTER REST

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

Adjustable machined jaws, cast-iron frame, with screws for attaching. Shipping weight—4 lbs.

No. AC-285 Follower Rest.

ELECTRIC MOTORS

1/2 H.P. Single Phase 1750 RPM Capacitor Motor, 110V 60 cycle, sleeve bearings, single end shaft. Shipping weight 33 lbs.

No. 1101

TAPER ATTACHMENT

Similar to taper attachment for Logan 10-inch Lathes. Shipping weight—15 lbs.

No. AC-270 Taper attachment.

No. LA-14 THREADING DIAL for No. 1400 Lathe. Shipping weight, 3 lbs.

No. AC-115 DRUM REVERSING SWITCH, Switch Box and 30' rubber covered cable. Shipping weight, 5 lbs.

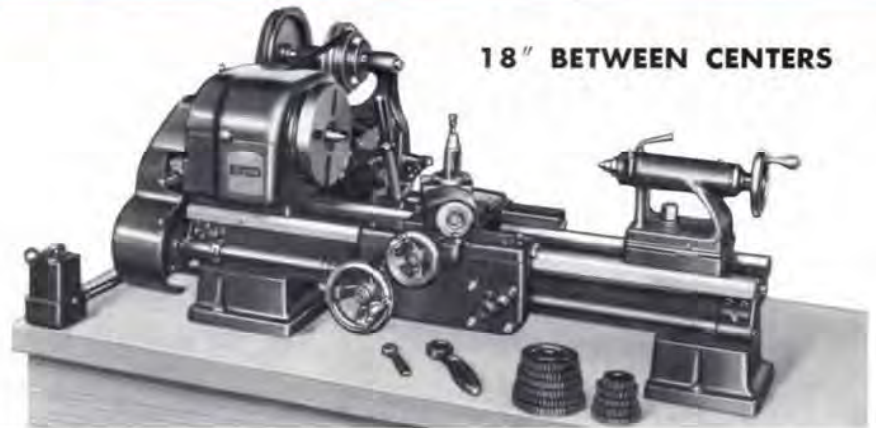
MOTOR PULLEYS

LB-101-A 1/2" bore. Shipping weight—2 lbs.

LB-101-B 5/8" bore. Shipping weight—2 lbs.

Logan 9" SWING LATHE

18" BETWEEN CENTERS



This compact, rugged lathe has the accuracy, ruggedness and all-around dependability that characterize larger Logan lathes. The ball bearing spindle needs no adjustment within its range of 55 to 1450 rpm, and permits taking full advantage of high speed, carbide tipped cutting tools. Total spindle runout, 12 inches out from the front bearings is less than .001". The two V-ways and two flat ways of the special alloy bed are precision ground to within .0005". In precision manufacturing operations, machine shop and tool room work, farm equipment maintenance, and as the basic tool of home workshops, it has an outstanding record.

No. 1400 9" swing, 18" between centers, V-belt drive as shown, less motor and switch.

SPECIFICATION

CAPACITY OF LATHE

Swing over bed and Saddle Wings.....9"
Swing over cross slide.....5"
Distance between centers.....18"

THREADS AND FEEDS

Reversible power longitudinal feed.
Lead Screw diameter and threads per inch3/4"-8
Threads—46 selections RH or LH 4 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 length33 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 inch1 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 55, 80, 112, 144, 200 and 253 R.P.M.
Spindle speeds, direct belt driven 353, 459, 645, 831, 1157 and 1450 R.P.M.

TAILSTOCK

Spindle travel2 3/8"
Spindle graduations1/16"
Morse Taper center.....No. 2
Tailstock top sets over for taper turning 1/2".

CARRIAGE AND CROSS SLIDE

Cross slide graduated in thousandths, travel5 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 shank3/8" x 3/4"
Size of cutter bits used.....1/4" sq.

COUNTERSHAFT ASSEMBLY

2 speed "V" Motor Pulley.....2 3/8"-2 7/8"
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" Drive Plate 2—60° Centers
17—Change Gears 1—Threading Chart
1—No. 3 - No. 2 Morse Taper adapter
1—Tool Post and wrench
1—Tailstock wrench 1—Motor Pulley
Parts List and Instruction Book

OVERALL DIMENSIONS

(Including Countershaft Assembly)
38" long, 28" wide, 15 1/2" high.

MOTOR

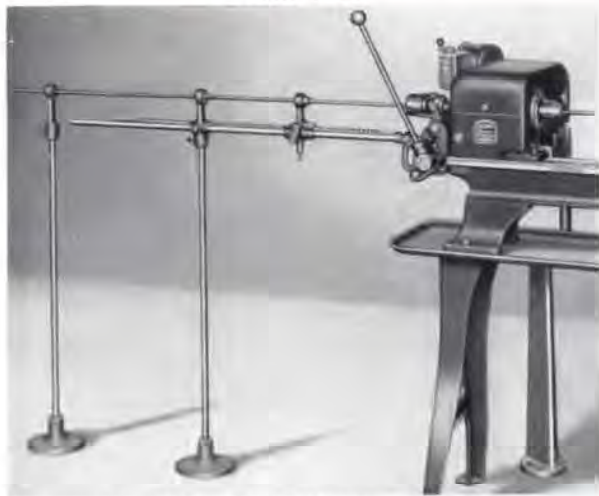
Use 1/2 H.P. 1750 R.P.M. Motor—Suitable for side-wall mounting. If lathe is ordered without Motor, specify bore of motor pulley to be furnished with Lathe.

SHIPPING WEIGHT

No. 1400 Logan Lathe with countershaft assembly, less motor.....240 lbs.

Logan LATHE ACCESSORIES

BAR FEED



For use on No. 1830 or No. 1830-2 Hand Screw Machines only. Maximum capacity $\frac{3}{8}$ " round stock. Maximum feed per stroke is 2". No. AC-50 Push Type Collets are used in sizes from $\frac{1}{16}$ " to $\frac{5}{8}$ ". A patented cam action prevents feeding while bar is being locked in collet and eliminates locking while bar is being fed.
No. LA-32-34 Ship. wt. 45 lbs.

ANTI-FRICTION CENTER



Live center. Grease-sealed precision bearings. No. 2 Morse Taper shank. Centerpiece angle 60°.

No. 595-1 Ship. Wt. 3 lbs.

60° MALE CENTER

No. LA-187 Hardened, ground. No. 2 M. T. shank. Ship. Wt. $\frac{1}{2}$ lb.

CHUCK ADAPTERS



No. AC-113 Mounts 3662 and 3634 Chucks on $1\frac{1}{2}$ "-8 Spindle. Ship. wt. 7 lbs.

No. AC-114 Mounts 3662 and 3634 Chucks on $2\frac{1}{4}$ "-8 Spindle. Ship. wt. 7 lbs.

No. T-978 Mounts 4733 Chuck on $2\frac{1}{4}$ "-8 Spindle. Ship. wt. 9 lbs.

No. AC-101 Threaded $1\frac{1}{2}$ "-8 for 5" Chucks, Unfinished Face. Ship. wt. 4 lbs.

No. AC-104 Threaded $1\frac{1}{2}$ "-8 for 6" Chucks, Unfinished Face. Ship. wt. 7 lbs.

No. AC-107 Threaded $2\frac{1}{4}$ "-8 for 6" Chucks, Unfinished Face. Ship. wt. 7 lbs.

CHUCK ARBORS

447 No. 2 M.T. for #451 Jacobs Chuck. Shipping wt. 1 lb.

448 No. 2 M.T. for #452 and #455 Jacobs Chucks. Shipping wt. 1 lb.



JACOBS CENTER REST CHUCK

$\frac{1}{4}$ -"- $\frac{3}{4}$ " capacity. Requires No. 448 Arbor.

No. 455 Shipping wt. 2 lbs.



JACOBS DRILL CHUCKS

No. 451 0-"- $\frac{1}{2}$ " capacity. Requires No. 447 Arbor. Ship. wt. $2\frac{1}{2}$ lbs.

No. 452 $\frac{3}{16}$ -"- $\frac{3}{4}$ " capacity. Requires No. 448 Arbor. Ship. wt. $3\frac{1}{2}$ lbs.



JACOBS HEADSTOCK CHUCKS

No. 453 $\frac{1}{8}$ -"- $\frac{5}{8}$ " capacity. For $1\frac{1}{2}$ "-8 thread spindle. Ship. wt. $3\frac{1}{2}$ lbs.

No. 454 $\frac{3}{16}$ -"- $\frac{3}{4}$ " capacity. For $1\frac{1}{2}$ "-8 thread spindle. Ship. wt. $4\frac{1}{2}$ lbs.

JACOBS COMMUTATOR CHUCK KIT

Contains a Jacobs Armature Driving Chuck, $\frac{1}{4}$ to $\frac{3}{4}$ " capacity, and a Center Rest Chuck also $\frac{1}{4}$ to $\frac{3}{4}$ " capacity. Both chucks equipped with No. 2 Morse Taper Arbors to fit the headstock and tailstock.

No. 459 Shipping wt. 9 lbs.



SPINDLE BRAKE

Fits any Logan 11" Swing Lathe. Replaceable leather shoe applies friction to spindle for rapid brake. Spring return lever.

No. AC-325 Spindle brake with screws for attaching. Shipping weight, 10 lbs.



BORING BARS

Used with No. 556 Boring Tool Holder

Article Nos.	Size	Ship. Wt.
570-A	$\frac{1}{8}$ x 4"	$\frac{1}{4}$ lb.
570-B	$\frac{3}{16}$ x $4\frac{1}{2}$ "	$\frac{1}{4}$ lb.
570-C	$\frac{1}{4}$ x 5"	$\frac{1}{4}$ lb.
570-D	$\frac{5}{16}$ x 6"	$\frac{1}{4}$ lb.
570-E	$\frac{3}{8}$ x 7"	$\frac{1}{2}$ lb.
570-F	$\frac{7}{16}$ x 8"	$\frac{1}{2}$ lb.

BITS

No. 560 Hss. Blank Cutter Bits, size $\frac{1}{4}$ " x $\frac{1}{4}$ " x 2"—packaged set of 6, ship. wt. 1 lb.

No. 561 Hss. Formed Cutter Bits, size $\frac{1}{4}$ " x $\frac{1}{4}$ "—packaged set of 6, ship. wt. 1 lb.

No. 558 Carbide Tipped Formed Bits, size $\frac{1}{4}$ " x $\frac{1}{4}$ "—packaged set of 6, ship. wt. 1 lb.

STANDARD ACCESSORIES

Used on No. 1400 Lathe

LA-170	Face Plate, 6"
LA-187	60 Deg. Center
LA-344	Face Plate, 8"
AC-30	Split Holding Collet
AC-101	Chuck Back Plate
AC-104	Chuck Back Plate
AC-225	Carriage Stop
AC-226	Double Carriage Stop
AC-234	Micrometer Carriage Stop
AC-300	Drill Pad
AC-340	Collet Rack
250	Palmgren Milling Attachment
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-"- $\frac{1}{2}$ "
452	Drill Chuck, $\frac{3}{16}$ -"- $\frac{3}{4}$ "
453	Headstock Chuck, $\frac{1}{8}$ -"- $\frac{5}{8}$ "
454	Headstock Chuck, $\frac{3}{16}$ -"- $\frac{3}{4}$ "
455	Center Rest Chuck, $\frac{1}{4}$ -"- $\frac{3}{4}$ "
459	Jacobs Commutator Kit
488	Saws
489	Saws
499	Lacquer Enamel
512	Turret Tool Post
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	Boring Bars, $\frac{1}{8}$ ", $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{7}{16}$ "
575	Countersinks, $\frac{1}{16}$ ", $\frac{3}{32}$ ",
580	Lathe Dogs, $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{3}{4}$ ", 1", $1\frac{1}{4}$ ", $1\frac{1}{2}$ "
585	Clamp Lathe Dog, $1\frac{3}{4}$ "
586	Clamp Lathe Dog, $2\frac{1}{2}$ "
595-1	Anti-friction Center

Logan LATHE ACCESSORIES

BUCK ADJUST-TRU CHUCKS

6-Jaw and 3-Jaw Types

Chuck to .0005" precision in 1 minute, and re-chuck to .0005" on duplicate parts with scroll chuck speed, with no further adjustment. Hold I. D. and O. D. true . . . and end most needs for stub arbors, mandrels and special fixtures.



6-Jaw Type Replaces Collets

Infinite spindle hole capacity from 1/8" to 1 1/2". Replaces step collets, too. Step jaws provide such capacity from 1/8" to 5". All told, this single chuck handles the work of 93 collets!

No. 3662 6" diameter, 1 1/2" center clearance, 3/4" jaw width. 6 internal and 6 external jaws. Order AC-113 or AC-114 Chuck adapter. Shipping wt., 29 lbs.



3-Jaw Type Replaces 4-Jaw Chucks

Has the accuracy of 4-jaw chucks plus the speed and versatility 4-jaw chucks lack.

No. 3634 6" diameter, 1 1/2" center clearance, 3/4" jaw width, 3 internal and 3 external jaws. Order AC-113 or AC-114 Chuck adapter. Shipping wt., 27 lbs.

No. 4733 7 1/2" diameter. Order No. T-978 Chuck Adapter. Shipping wt., 35 lbs.



3-JAW UNIVERSAL CHUCKS

No. 436 Medium Duty, 5". Body of chuck threaded for 1 1/2"-8 thread spindle. Shipping wt., 12 lbs.

No. 431 Heavy Duty, 5". Body of chuck threaded for 1 1/2"-8 thread spindle. Shipping wt., 15 lbs.

No. 1063 Heavy Duty, 6". Adapter furnished for 2 1/4"-8 thread spindle. Shipping wt., 20 lbs.



4-JAW INDEPENDENT CHUCKS

No. 444 6", 4-Jaw. Body of chuck threaded for 1 1/2"-8 thread spindle. Shipping weight, 13 lbs.

No. 1064 6", 4-Jaw. Adapter furnished for 2 1/4"-8 thread spindle. Shipping weight, 20 lbs.

No. 1284 8", 4-Jaw. Adapter furnished for 2 1/4"-8 thread spindle. Shipping weight, 27 lbs.

HAMPTON SPEED CHUCKS

Handles round or hexagon stock with the same set of jaws and identical adjustments. Simplifies precision production of concentric and eccentric parts. Jaws opened and closed 1/64" without stopping spindle. Complete set of socket wrenches with each model.



No. 600 1" capacity, complete with 3 sets of jaws, 1/8" to 1", lathe bed clamp, stop plate, spanner wrench and with 1 1/2"-8 thread adapter. Shipping weight, 22 lbs.

No. 601 1-5/16" capacity, complete with 4 sets of jaws, 1/8" to 1-5/16", lathe bed clamp, stop plate, spanner wrench and with 2 1/4"-8 thread adapter. Shipping weight, 26 lbs.



DRAW-IN COLLETS

No. AC-30 Used with # AC-152, # AC-165 and # AC-166 Collet Attachments. Sizes 1/16" to 1/2" by 32ds. Round. Ship. wt., 1/2 lb.

No. AC-35-5 Set of 15 # AC-30 Collets, 1/16" to 1/2" by 32ds. Ship. wt. 7 lbs.

No. 475 Used with # AC-360, # AC-360-2, # AC-2360, # LA-1050, # LA-1050-1, # AC-2050 Collet Attachments. Sizes 1/16" to 1" by 32ds. Round. Ship wt. 3/4 lb.

No. 477-5 Set of 31 # 475 Collets, 1/16" to 1" by 32ds. Ship. wt. 18 lbs.

PUSH TYPE COLLETS

No. AC-50 Used with # LA-32-34 Bar Feed on Hand Screw Machines only. Sizes 1/16" to 3/8" by 32ds. Round. Ship. wt. 1/2 lb.

No. AC-45-5 Set of 19 # AC-50 Collets, 1/16" to 3/8" by 32ds. Ship. wt. 8 lbs.

DRAW-IN COLLET CHUCK ATTACHMENTS

All attachments consist of hollow draw bar, tapered closing sleeve, spindle nose cap and spindle cap wrench.



No. AC-152 Chucks work between 1-16" and 1/2" diam. Uses No. AC-30 Collets. For Logan 10" Lathes. Shipping wt., 5 lbs.

No. LA-1050 Chucks 1/16"-1" diameter work. Uses No. 475 Collets. For Logan 11" Lathes with Serial No. 52575 and under. Shipping wt., 7 lbs.

No. LA-1050-1 Same as No. LA-1050. For 11" Logan Lathes with Serial No. 52576 and over. Shipping wt., 7 lbs.

No. AC-2050 Uses No. 475 Collets and chucks work between 1/16" and 1". For Logan 12" Lathes. Shipping wt., 8 lbs.

Logan LATHE ACCESSORIES



PRODUCTION COLLET ATTACHMENTS

All models lever operated. Open and close while lathe spindle is in motion.

No. AC-165 Uses # AC-30 Collets. For # 200 Series Lathes. Ship. wt., 12 lbs.

No. AC-166 Uses # AC-30 Collets. For # 800 and # 1800 Series Lathes. Ship. wt., 12 lbs.

No. AC-360 Uses # 475 Collets. For Logan 11" Lathe. Serial Number 52575 and Under. Ship. wt., 18 lbs.

No. AC-360-2 Uses # 475 Collets. For Logan 11" Lathes. Serial Number 52576 and Over. Ship. wt., 18 lbs.

No. AC-2360 Uses # 475 Collets. For Logan 12" Lathes. Ship. wt. 20 lbs.

COLLET RACKS

Clamp to rear way of any Logan Lathe bed. Provide convenient storage and protection for a full set of collets.

No. AC-340 for AC-30 Collets. Ship. wt., 7 lbs.

No. AC-350 for AC-50 Collets. Ship. wt., 7 lbs.

No. AC-345 for No. 475 Collets. Ship. wt., 7 lbs.



COMPOUND REST ASSEMBLIES



No. LA-49-4 Standard equipment on Logan 11" screw cutting Lathes and on all 10" Lathes with Serial Number 50843 and up. Also fits 11" Turret Lathes in place of the double tool post cross slide. Complete as shown with tool post and wrench. Shipping weight, 13 lbs.

No. LA-49-1 For 10" Lathes, Serial Number 29567 and Under. Ship. wt., 13 lbs.

No. LA-49-3 For 10" Lathes, Serial Number 29568 to 50842. Ship. wt. 13 lbs.

No. LA-1178 For 12" Lathes. Ship. wt. 17 lbs.

DOUBLE TOOL POST CROSS SLIDE (Lever Operated)

No. LA-25-1 Fits any 10" Logan Lathe bed. Has adjustable stops with a maximum travel of 3". Adjustable wedges for tool holder slot included. Ship. wt., 30 lbs.

No. LA-1108 Same as LA-25-1, for 11" Lathes. Ship. wt., 32 lbs.



DOUBLE TOOL POST CROSS SLIDE

No. LA-29 For Lathes with Serial Number 29567 or under. Manual feed by hand wheel or power cross feed. Adjustable tool post wedges included. Shipping wt., 18 lbs.

No. LA-29-1 For Lathes with Serial Number 29568 or over. Fits all 11" Lathes. Shipping wt., 18 lbs.

No. LA-77 For 12" Lathes. Replaces Compound Rest Assembly. Ship. wt., 24 lbs.

No. AC-318 Same as # LA-29-1, but with Added Lever Operation. Ship. wt., 22 lbs.

No. AC-304 Same as # LA-77, but with Added Lever Operation. Ship. wt., 26 lbs.

No. AC-303 Lever Attachment for Cross Slide. Converts # LA-77 to # AC-304.

No. AC-310 Lever Attachment for Cross Slide. Converts # LA-29-1 to # AC-318. Ship. wt., 5 lbs.



CENTER COUNTERSINK DRILLS

Drill and countersink bearings for Lathe Center. Three sizes.

No.	Size	Ship. wt.
575-A	1/16"	1/4 lb.
575-B	3/32"	1/4 lb.

LATHE DOGS

Bent Tail Type, with Square Head Set Screw.



No.	Cap.	Ship. wt.	No.	Cap.	Ship. wt.
580-A	3/8"	1/4 lb.	580-D	1"	1/2 lb.
580-B	1/2"	1/4 lb.	580-E	1 1/4"	1/2 lb.
580-C	3/4"	1/4 lb.	580-F	1 1/2"	1/2 lb.

CLAMP TYPE LATHE DOGS



No.	Cap.	Ship. wt.
585	1 3/4"	1/2 lb.
586	2 1/4"	3/4 lb.

AUXILIARY HEAD

Adapts Logan 11" Lathes for Oversize Work



Mounted on Logan 11" Lathe. Note raising blocks in position under the tool post and tailstock

Gives Logan 11" Lathes 14 1/2" Swing over wings of carriage . . . Ball Bearing Mounted Spindle . . . 2 1/4", 8-Thread Spindle Nose . . . Attached in 10 minutes, easy to detach . . . 12" Face Plate.

Gear reduction feature permits cutting threads four times as coarse as in regular operation. Spindle center is set back as well as elevated. As a result, in turning large work, the pressure from the cut is over the lathe way, not overhanging. Provides the smooth operation on heavy cuts essential to accuracy. Raising blocks for the tool post and tailstock assembly furnished.

No. AC-400 Shipping weight, complete, 140 lbs.

LACQUER ENAMEL

No. 499 1 pt. Matches Standard Logan Gray. Brush or Spray. Shipping weight, 2 lbs.

METRIC TRANSPOSING GEARS

Each complete set includes bracket, gear guards and transposing gear chart. Each equips a standard Logan Lathe to cut right hand and left hand metric screw threads ranging from 6 mm. pitch to .020 mm. pitch. All gears semi-steel, 16 pitch, 7/16" wide and carefully machined.

No. AC-130 For 10" Plain Change Gear Lathes. Ship. wt., 29 lbs.

No. AC-143 For 10" Quick Change Gear Lathes with Serial No. 46561 and up. Ship. wt., 35 lbs.

No. AC-320 For 11" Quick Change Gear Lathes. Ship. wt., 35 lbs.

Logan LATHE ACCESSORIES

PALMGREN MILLING ATTACHMENT



Mounted in 10 seconds on any 1½" diameter tool post. Allows lathe to be used for slotting, milling, sawing, grooving, squaring, re-cessing, etc. Jaws are 2½" wide, 1-7/16" deep, and open to 2½".

No. 250 Shipping weight, 14 lbs.



DRILL PAD

No. AC-300 No. 2 Morse Taper. Ship. wt., 1 lb.

DRIVE AND FACE PLATES

- LA-170** Drive Plate, 6" Diam., Threaded for 1½"-8 Spindle, ship. wt., 4 lbs.
- LA-1009** Drive Plate, 6" Diam., Threaded for 2¼"-8 Spindle, ship. wt., 4 lbs.
- LA-344** Face Plate, 8" Diam., Threaded for 1½"-8 Spindle, ship. wt., 6 lbs.
- LA-1008** Face Plate, 8" Diam., Threaded for 2¼"-8 Spindle, ship. wt., 6 lbs.
- 2010** Face Plate, (for 12" lathes only) 10" Diam., threaded for 2¼"-8 Spindle, ship. wt., 16 lbs.



1750 RPM ELECTRIC MOTORS

No.	Description	Ship. Wt.
1101	½ H.P., 1750 RPM, 1 Phase, 110V, 60-Cycle	33 lbs.
1105	sleeve ½ H.P., 1 Phase, 110/220V, 60-Cycle	50 lbs.
1106	bearings ½ H.P., 1 Phase, 110/220V, 50-Cycle	50 lbs.
1110	½ H.P., 3 Phase, 220/440V, 60-Cycle	50 lbs.
1111	½ H.P., 3 Phase, 220/380V, 60-Cycle	50 lbs.
1116L	¾ H.P., 1 Phase, 110/220V, 60-Cycle, For Bench and Floor Models.....	60 lbs.
1116C	¾ H.P., 1 Phase, 110/220V, 60-Cycle, For Cabinet Models.....	60 lbs.
1118L	ball bearings ¾ H.P., 3 Phase, 220/440V, 60-Cycle, For Bench and Floor Models.....	60 lbs.
1118C	¾ H.P., 3 Phase, 220/440V, 60-Cycle, For Cabinet Models.....	60 lbs.
1119	1 H.P., 1 Phase, 110/220V, 60-Cycle	80 lbs.
1120	1 H.P., 3 Phase, 220/440V, 60 Cycle	70 lbs.

MOTOR PULLEYS

- LB-101-A** ½ inch bore—for 9" lathe, ship. wt., 2 lbs.
- LB-101-B** ¾ inch bore—for 9" lathe, ship. wt., 2 lbs.



- LA-349-A** ½ inch bore
 - LA-349-B** ¾ inch bore
 - LA-349-C** ¾ inch bore
- for No. 200 and No. 800 series lathes only. Shipping weight 3 lbs each.
- LA-1037-B** ¾ inch bore
 - LA-1037-C** ¾ inch bore
- for all No. 900 series lathes and all No. 1800 and No. 1900 series bench and floor models. Shipping weight, 4 lbs. each.
- 2130-B** ¾ inch bore
 - 2130-C** ¾ inch bore
- for all cabinet models in the No. 1800, No. 1900 and No. 2900 series. Shipping weight, 4 lbs. each.

QUICK CHANGE GEAR ATTACHMENT

Provides 48 threads and feeds in either direction. Screw threads from 8 to 224 per inch. Two lever adjustment. Changing 24-tooth stud gear for 48-tooth stud gear also furnished provides additional threads of from 4 to 7 per inch. Longitudinal power feeds from .0018" to .1000" per spindle revolution, when used with automatic apron and clutch. Power cross feeds .25 times longitudinal feeds. Complete with a replacement lead screw, parts and installation instructions. When ordering one of these attachments to be used with a plain change lathe, screw threads will be the same as above with longitudinal power feed from .0044" to .2500", with automatic cross feed with direct ratio to longitudinal feeds.

- No. LA-1200** For 10" and 11" lathes, 24" centers. Ship. wt., 24 lbs.
- No. LA-959** For 10" Lathes, 31" centers. Ship. wt., 24 lbs.
- No. LA-958** For 11" Lathes, 36" centers. Ship. wt., 26 lbs.

HEAVY DUTY COOLANT PUMP

High Pressure — Gear Type

Light weight, portable. Operates independently of the machine tool. Delivers from 90 gallons per hour to a few drops. 20 lbs. pressure capacity. 1/25 H.P., 115 V., AC 60 Cy. 1 phase Motor. 7½ gallon container has 5" bowl screen strainer. Complete unit includes 4 ft. of ¾" Neoprene hose with flow control pet cock and 12" of flexible feed spout. 5½ ft. of rubber-covered electric cord with plug and motor switch.

No. 525-1 Shipping weight, 38 lbs.



CENTER RESTS

- No. AC-189** 3" Cap. 3-Jaws. For 10" Lathes. Ship. wt., 8 lbs.
- No. AC-290** 3" Cap. 3-Jaws. For 11" Lathes. Ship. wt., 9 lbs.
- No. AC-2189** 3" Cap. 3-Jaws. For 12" Lathes. Ship. wt., 11 lbs.



FOLLOWER RESTS

- No. AC-196** 3" Cap. 2-Jaws. For 10" and 11" Lathes. Ship. wt., 5 lbs.
- No. AC-2196** 3" Cap. 2-Jaws. For 12" Lathes. Ship. wt., 7 lbs.



SETS FOR CONVERSION OF BENCH MODELS TO FLOOR MODELS

Each set includes Pan, Legs and Countershaft support



- No. 415** 1" Deep Chip Pan, for 10" Lathes, 24" Centers. Ship. wt., 118 lbs.
- No. 418** 1½" Deep Oil Pan, for 10" Lathes, 24" Centers. Ship. wt., 122 lbs.
- No. 417** 1½" Deep Oil Pan, for 10" Lathes, 31" Centers. Ship. wt., 125 lbs.
- No. 1072** 1½" Deep Oil Pan, for 11" Lathes, 24" Centers. Ship. wt., 128 lbs.
- No. 1078** 1½" Deep Oil Pan, for 11" Lathes, 36" Centers. Ship. wt., 130 lbs.

CARRIAGE STOPS



No. AC-234 Micrometer Carriage Stop. Collar graduated in .001". Setting may be locked for duplicate work. For all Logan Lathes. Ship. wt., 3 lbs.



No. AC-226 Double Carriage Stop. Adjustable screws set carriage for two desired positions. Used either side of carriage. For all Logan Lathes. Ship. wt., 3 lbs.



No. AC-225 Carriage Stop. Used either side of carriage. Screw with lock-nut gives accurate adjustment. For all Logan Lathes. Ship. wt., 2 lbs.

Logan LATHE ACCESSORIES

THREADING STOP

No. AC-352 For drilling and tapping 5/16"–18 holes. 6" adjustable range. Mounts on rear of saddle on any Logan Lathe. Adjustable screw for positive stop against cross feed nut. Template furnished. Shipping weight, 3 lbs.



LEVER TAILSTOCKS

No. AC-241 For Logan 10" Lathes. Has 2 3/4" lever stroke. Provides lever and hand wheel operation. No. 2 Morse Taper. Ship. wt., 30 lbs.

No. AC-375 For Logan 11" Lathes. 4" lever stroke. Provides lever and hand wheel operation. No. 2 Morse Taper. Ship. wt., 34 lbs.



STANDARD TAILSTOCKS

No. LA-3-1 Same as Furnished on 10" Screw Cutting Lathes. Ship. wt., 24 lbs.

No. LA-1065 Same as Furnished on 11" Screw Cutting Lathes. Ship. wt., 29 lbs.

No. LA-2065 Same as Furnished on 12" Screw Cutting Lathes. Ship. wt., 32 lbs.

TAPER ATTACHMENTS

Exclusive "Micro-Screw" feature gives quick, positive adjustments of slide bar to desired taper. Easily installed, with taper attachment cross slide becoming a permanent part of the lathe. Quickly detached.



No. AC-255 For 10" Lathes, Serial Number 50842 and Under. Ship. wt., 18 lbs.

No. AC-298 For 10" Lathes, Serial Number 50843 and Over. Ship. wt., 18 lbs.

No. AC-295 For 11" Lathes. Ship. wt., 20 lbs.

No. AC-2295 For 12" Lathes. Ship. wt., 22 lbs.

TOOL HOLDERS



No. 552 Straight Turning Tool Holder, 3/8" x 3/4" Tool Holder Shank. Ship wt., 1 lb.

No. 551 R.H. Turning Tool Holder, 3/8" x 3/4" Tool Holder Shank. Ship. wt., 1 lb.

No. 550 L.H. Turning Tool Holder, 3/8" x 3/4" Tool Holder Shank. Ship. wt., 1 lb.

No. 556 Boring Tool Holder, 3/8" x 3/4" Tool Holder Shank. Ship. wt., 1 lb.

No. 557 Straight Cut-off Tool Holder, 3/8" x 3/4" Tool Holder Shank. Ship. wt., 1 lb.

No. 554 R.H. Cut-off Tool Holder, 3/8" x 3/4" Tool Holder Shank. Ship. wt., 1 lb.

No. 564 Extra Cut-off Blade, for #557 and #554 Cut-off Tool Holders. Ship. wt., 1/4 lb.

No. 555 Knurling Tool Holder, 3/8" x 3/4" Tool Holder Shank. Ship. wt., 1 lb.

No. 565 Extra Diamond Knurls, for #555 Tool Holder. Specify Fine, Medium or Coarse. Ship. wt., 1/4 lb.

No. 553 Threading Tool Holder, 3/8" x 3/4" Tool Holder Shank. Ship. wt., 1/4 lb.

No. 563 Extra Threading Cutter, for #553 Tool Holder. Ship. wt., 1 lb.

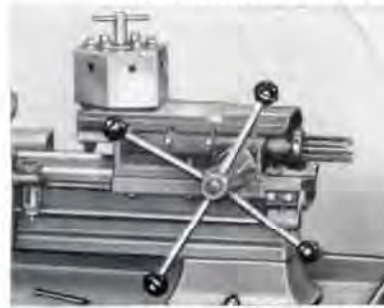
No. 549 Tool Holder Set. One Each #550, #551, #552, #553, #554, #555, #556, #557 Tool Holders in Steel Box. Ship. wt., 7 lbs.

No. 521 TAILSTOCK TURRET



Finger tip control rotates 6 tools in direct line with spindle. 2 1/2" diameter. 5/8" turret holes. No. 2 Morse Taper. Shipping wt., 4 lbs.

HEXAGONAL TURRET ASSEMBLIES



Six-Position — Self-Indexing Pilot Wheel or Lever Operated

Fit bedways of Logan Screw Cutting Lathes. Interchangeable with the tailstock, and used with a Double Tool Post Cross Slide to replace the compound rest, they convert such a lathe into a turret lathe. Extra heavy construction assures maximum smoothness and accuracy. Turret lock furnished on pilot wheel models provides increased rigidity for heavy cuts.

5 1/4" across turret head flats — 4 1/4" maximum stroke of turret — 23" maximum distance, end of spindle to turret face — adjustable gibs on side — furnished unbored.

No. LA-66 Pilot Wheel Type. Shipping wt., 100 lbs.

No. LA-65 Lever Type. Shipping wt., 97 lbs.

TURRET TOOL POSTS

Quickly set up on the T-slot of a compound rest. Mount four tools up to 3/8", 12 stations available, with three working positions for each tool. On jobs requiring less than four tools, duplicate tools may be set up for uninterrupted production. 2 1/2" square tool block indexes at 30° intervals, providing a quick set-up for threading.



No. 512 Square. For 10" Screw Cutting Lathes, Serial Number 50843 and Over. For all 11" and 12" Lathes. Shipping wt., 3 lbs.

No. 513 Square. For 10" Screw Cutting Lathes, Serial Number 50842 and Under. Shipping wt., 3 lbs.

No. 514 Square. For All 10", 11" and 12" Turret Lathes. Shipping wt., 4 lbs.

MICA ARMATURE UNDERCUTTERS



Mounts on back of the cross slide, leaving the tool post free to hold the trueing tool. Lifting the lever swings the entire upper part of the assembly out of the way to permit trueing 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. Length of saw stroke is 2 inches. Furnished complete with two saws, one .015" thick, the other .020" thick.

No. 487 For 10" Lathes, Serial Number 50842 and Under. Ship. wt., 8 lbs.

No. 487-1 For 10" Lathes, Serial Number 50843 and Over. For All 11" Lathes. Ship. wt., 8 lbs.

No. 488 Packet of 6 Blades .015". For #487 and #487-1 Mica Undercutter. Ship. wt., 1/4 lb.

No. 489 Packet of 6 Blades .020". For #487 and #487-1 Mica Undercutter. Ship. wt., 1/4 lb.

Logan 8" SHAPER

Combines capacity, precision and versatility. Powerful 8½" maximum stroke permits full and accurate machining of work 8" long. Handles straight cuts, angular cuts, squaring, machining and slotting. Six automatic feeds in either direction, from .002" to .012" are set by a feed dial graduated to .001". A half turn of the feed handle in either direction reverses the feed. Any speed from 35 to 180 strokes per minute is quickly obtainable. Speed changes are effected instantly, without stopping the motor or shift belt, by turning the hand wheel control.

Table, 8" wide by 8" long, has a vertical travel of 5½" and a 10½" traverse. The adjustable table support mounted on the base of the machine, provides solid reinforcement.

Because the tool head may be swiveled 360°, squaring the ends of stock of almost any length is possible on the Logan Shaper. The stock is laid horizontally and the head turned to present the tool in proper position. Tool head vertical travel is 2¾".



SPECIFICATIONS

Length of ram, 19" . . . width of ram, 5-3/16" . . . width of ram ways, 5-3/16" . . . Cross-rail ways, 5/8" x 3/4" x 5 1/4" . . . length of stroke, 8 1/2" . . . length of ram bearings, 19" . . . bearing surface of ram, 51 sq. in. . . vertical travel of tool head, 2 3/8" . . . size of tool holder, 7/16" x 7/8" . . . tool head swivel, 360° . . . tool head diameter, 4" . . . length of cross rail, 13 7/8" . . . horizontal travel of table, 10 1/2" . . . vertical travel of table, 5 1/2" . . . distance, top of table to ram (maximum), 8" . . . working surface of table, 8" x 8" . . . slots in table (3 on top and 3 on side), 7/16" . . . table depth, 7 1/2" . . . saddle bearing, 5 1/4" . . . feeds, .002, .004, .006, .008, .010, and .012" . . . speeds, "Anyspeed," 35 to 180 strokes per minute . . . size of motor, 1/2 h.p. or 3/4 h.p. . . . cutting speeds, up to 120 feet per minute . . . vise, swivel 300°, 5 1/4" opening, 5" width . . . weight with motor, 700 lbs. . . overall dimensions, 15" wide, 35" deep, 51" high.

LOGAN 8-INCH SHAPERS

- No. E58-S½ With ½ H.P., 1 Phase, 110/220V, 60-Cycle Motor. Shipping weight, 690 lbs.
- No. E58-T½ With ½ H.P., 3 Phase, 220/440V, 60-Cycle Motor. Shipping weight, 690 lbs.
- No. E58-S¾ With ¾ H.P., 1 Phase, 110/220V, 60-Cycle Motor. Shipping weight, 700 lbs.
- No. E58-T¾ With ¾ H.P., 3 Phase, 220/440V, 60-Cycle Motor. Shipping weight, 700 lbs.
- No. E58 Shaper, Less Motor. Shipping weight, 640 lbs.

SHAPER ACCESSORIES

BLANK CUTTER BITS

No. 560 Set of 6. Unground, measure ¼ x ¼ x 2". Heat treated high speed steel. Shipping wt., 1 lb.

"T" HEAD BOLTS

No.	Size	Ship. Wt.
538A	1"	½ lb.
538B	2 ¼"	¾ lb.
538C	3 ¼"	1 lb.

INDEX CENTERS

No. 535 5 inches between centers. 3-inch swing. Index plate with divisions between 22-30. Shipping wt., 16 lbs.



ANGLE PLATE

No. 537 For clamping irregular work to table. Size, 3" x 3" x 5". Ship. wt., 7 lbs.

ROTARY TABLE

No. 536 4" with 7" diameter work surface. Shipping wt., 23 lbs.



KEYWAY TOOL HOLDERS

- No. 539A 7/16" for Cutting Keyways and Slotting on Inside Work. Ship. wt., 1 lb.
- No. 539B 5/8" for Cutting Keyways and Slotting on Inside Work. Ship. wt., 1 lb.

SHAPER TOOL HOLDER

No. 540 Standard Tool Holder. Ship. wt., 1 lb.



SHAPER EXTENSION TOOL HOLDER

No. 541 For Inside Work. Ship. wt., 1 ½ lbs.



Form CC-2, 9-53—20M

Printed in U.S.A.

LOGAN ENGINEERING CO.

4901 West Lawrence Avenue, Chicago 30, Illinois

SOUTHWEST SUPPLY CO.