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
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 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.
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 205 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...2935-V, 2957-V, 2955-V, or 2935-2-V.
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".
SPECFICATIONS

FOR 12 INCH LOGAN LATHEs

CAPACITY OF LATHE

Swing over bed and saddle wings..............12"
Swing over swivel cross slide..................6-1/16"
Center Distance....23" (2955)....35" (2957)

THREADS AND FEEDS

Quick Change Gear Box and Automatic Apron
Wind 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—

HEADSTOCK AND SPINDLE

Spindle Bearings: (4) Sealed, Precision New Departure
Hole through Spindle: 1-1/8"
Spindle Nose diameter and threads per inch: 2-1/4"-8
Drive Plate Diameter: 6"
Number of Spindle Speeds: 18
Spindle Speeds: direct drive — 228, 318, 414, 578, 687, 886, 1230 rpm
Spindle Speeds, back gears engaged — 35, 50, 65, 90, 107, 139, 193 pm
With Variable Speed Drive — Infinite spindle speeds — 38 to 1575 rpm
Spindle Nose Adapter for #2 Morse

CROSS SLIDE AND COMPOUND REST, SCREW CUTTING LATHE

Cross Slide Travel: 6-1/4"
Compound Rest Travel: 2-1/4"
Compound Rest graduated 30° in both directions
Tool Post Opening for Tool Holder: 1/8" x 1/4"
Size of cutter bits: 1/4" sq.

CROSS SLIDE, TURRET LATHE

Cross slide travel: 6-1/2"
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"

BED

Width of bed across ways: 6-15/16"
Length of bed (2955)...............43-1/4" (2957)...55-1/2"
Precision ground ways: 2 prismatic V-ways and 2 flat ways

TAILSTOCK

Spindle Travel........................4"
Spindle Graduations....................1/16"
Morse Taper Center......................#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 1/4" regular—1/4" on special order
Turret holes bored from headstock of lathe
Maximum stroke of turret—4-1/4"

UNDERNEATH DRIVE

Two step drive—Motor Pulley to Countershaft
V-belt B section Belt size 40 x 1/4 inches
Four step drive Countershaft to Jackshaft
V-belt B section Belt size 30 x 1/8 inches
Double V Belt Drive—Jackshaft to Spindle
B section belt, belt size 60 x 1/8 inches
Jackshaft and Countershaft mounting
Ball Bearings

MOTOR AND SWITCH

Use 1/4 or 1 HP motor 1750 rpm
Drum type reversing switch furnished

LATHE EQUIPMENT INCLUDED WITH LATHE

1 8" Drive Plate
2 50° Centers
1 Threading Dial
1 Threading Chert
1 #2 Morse Taper Adapter Sleeve
1 Tool Post and Wrench
1 Tailstock Wrench
1 Drum Reversing Switch
1 Motor Pulley
1 Parts List and Instruction Book

OVERALL DIMENSIONS

#2955 #2957
Length........69" Length........70-1/2"
Width........21" Width........21"
Height........49" Height........49"

SCREW CUTTING LATHEs

Lathe No. Wt. (lbs.)
2955 Quick Change, Pedestal Cabinet Model, 23" Centers, V-Belt Drive........990
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

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

No. 29035-2
Turret Lathe, V-Belt Drive.

No. 29035-3
Turret Lathe, V-Belt Drive.
Accurate, Versatile, Durable, Convenient

These lathes have the capacity that goes with 11" swing, 1" collet, 1 5/8" 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.
SPECIFICATIONS
FOR 11 INCH LOGAN LATHES

CAPACITY OF LATHE
Swing over bed and saddle wings..........................11 1/2"  
Swing over saddle cross slide screw cutting lathes..........6 1/2"  
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, 0.0018" 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"-28

BED
Width of bed, across ways................................6 1/2-1/4"  
Length................................................................43 1/2" and 55 1/2"  
Precession 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 1/8"  
Spindle Nose Diameter and threads per inch: 2 3/4"-16  
Width of face of ball gear and back gear: 1/4"  
Face plate diameter: 8"  
Number of spindle speeds: 16, 45, 1500 rpm  
Spindle speeds, direct drive: 325, 385, 470, 535, 885, 1020, 1200 and 1430 rpm  
Spindle speeds, back gears engaged: 50, 62, 75, 90, 105, 150, 170, 200 and 235 rpm

CROSS SLIDE AND COMPOUND REST,
SCREW CUTTING LATHE
Cross Slide Travel 5/4"  
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 .75" x .75"  
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 1/16"

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 3/4" 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 3/4"  
Four step countershaft to jackshaft drive, B section V-belt,  
Belt size, 30" x 3/4"  
Double V-belt drive, Jack shaft to spindle, A section V-Belts,  
Belt sizes, 40" x 1/2"  
Jack shaft and countershaft mounting—Ball Bearing

MOTOR
1/4 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 Toolstock Wrench  
1 Threading Chart  
1 Tool Post and Wrench  
1 Drum Reversing Switch  
1 Motor Pulley  
Paris list and instruction book

OVERALL DIMENSIONS
Model 1920 — L 54"  
Model 1922 — L 60"  
Model 1924 — L 58"  
Model 1926 — L 70 1/4"

SCREW CUTTING LATHES

<table>
<thead>
<tr>
<th>Lathe No.</th>
<th>Description</th>
<th>Ship. Wt. (Lbs.)</th>
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<tbody>
<tr>
<td>1915</td>
<td>Quick Change, Bench Model, 24&quot; Centers, V-Belt Drive</td>
<td>505</td>
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<td>1917</td>
<td>Quick Change, Bench Model, 36&quot; Centers, V-Belt Drive</td>
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<td>1920</td>
<td>Quick Change, Floor Model, 24&quot; Centers, V-Belt Drive</td>
<td>615</td>
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<tr>
<td>1922</td>
<td>Quick Change, Floor Model, 36&quot; Centers, V-Belt Drive</td>
<td>665</td>
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<tr>
<td>1955</td>
<td>Quick Change, Pedestal Cabinet Model, 24&quot; Centers, V-Belt Drive</td>
<td>810</td>
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<tr>
<td>1957</td>
<td>Quick Change, Pedestal Cabinet Model, 36&quot; Centers, V-Belt Drive</td>
<td>870</td>
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</table>

TURRET LATHES

<table>
<thead>
<tr>
<th>Turret Lathes</th>
<th>Description</th>
<th>Ship. Wt. (Lbs.)</th>
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<tbody>
<tr>
<td>1935</td>
<td>Quick Change, Pedestal Cabinet Model, 43&quot; Bed, Lever Turret, V-Belt Drive</td>
<td>865</td>
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<tr>
<td>1935-9</td>
<td>Quick Change, Pedestal Cabinet Model, 43&quot; Bed, Pilot Wheel Turret, V-Belt Drive</td>
<td>935</td>
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<tr>
<td>1940</td>
<td>Quick Change, Floor Model, 43&quot; Bed, Lever Turret, V-Belt Drive</td>
<td>670</td>
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<tr>
<td>1940-2</td>
<td>Quick Change, Floor Model, 43&quot; Bed, Pilot Wheel Turret, V-Belt Drive</td>
<td>580</td>
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(1935 and 1935-9 are the same as 1955 but with turret and double tool post cross slide in place of tailstock and compound rest)

(1940 and 1940-2 are the same as 1920 but with turret and double tool post cross slide in place of tailstock and compound rest)
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.
CAPACITY OF LATHE

Screw over bed .......................... 10½"
Screw over saddle cross slide—screw cutting lathes .... 5½"
Distance between centers ............. 32" or 41"
Screw over saddle cross slide, turret lathe .......... 4½"

THREADS AND FEEDS (Quick Change Models)

Quick change gear box and automatic apron
Worm drive from lead screw spindles for power feeds
Friction clutch on power feeds
Longitudinal feed: .0017" to .0010" per spindle revolution
Cross feed: 0.010" times longitudinal feed
Half cut 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 feed
Threads: 48 selections RH or LH per inch—11 extra
Independent change gears—17 furnished (8 on Lathe and 11 extra)

BED

Width of bed across ways .......... 6-13/16"
Rear length ....... 431/2 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
Spindle nose diameter and thread sizes per in. 13/16"-14
Number of spindle speeds (except No. 1797) ........ 12
Number of spindle speeds (No. 1797) ........ 18
Spindle Speeds (all 10 lathes except No. 1797)
direct drive—350, 450, 550, 800, 1100, and 1450 rpm.
back gear—55, 70, 90, 145, 165, and 240 rpm.
Spindle speeds (for No. 1797 cabinet model only)
direct drive—220, 310, 414, 576, 650, 700, 800 and 1200 rpm.
back gear—30, 45, 60, 90, 115, 160, 220, 300, 400 rpm.

CROSS SLIDE AND COMPOUND REST,
SCREW CUTTING LATHES

Cross slide graduated in thousandths—Travel: 6½"
Compound rest top slide graduated in thousandths—Travel: 2½"
Compound rest swivel—graduated 30° in both directions
Tool post opening for tool holder .......... 3/16" sq.
Size of cutter bits used .......... 3/16" sq.

SCREW CUTTING LATHES

<table>
<thead>
<tr>
<th>Lathe No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1805</td>
<td>Plain Change, Bench Model, 24&quot; Centers, V-Belt Drive</td>
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<td>1806</td>
<td>Plain Change, Bench Model, 31&quot; Centers, V-Belt Drive</td>
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<tr>
<td>1810</td>
<td>Plain Change, Floor Model, 24&quot; Centers, V-Belt Drive</td>
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<td>1811</td>
<td>Plain Change, Floor Model, 31&quot; Centers, V-Belt Drive</td>
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<td>1814</td>
<td>Quick Change, Bench Model, 24&quot; Centers, V-Belt Drive</td>
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<td>1816</td>
<td>Quick Change, Bench Model, 31&quot; Centers, V-Belt Drive</td>
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<td>1820</td>
<td>Quick Change, Floor Model, 24&quot; Centers, V-Belt Drive</td>
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<td>1821</td>
<td>Quick Change, Floor Model, 31&quot; Centers, V-Belt Drive</td>
</tr>
<tr>
<td>1875</td>
<td>Quick Change, Pedestal Cabinet Model, 24&quot; Centers, V-Belt Drive</td>
</tr>
</tbody>
</table>

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 .... 780
1835-2 Quick Change, Pedestal Cabinet Model, 43" Bed, Pilot Wheel Turret, V-Belt Drive .... 800
1840  Quick Change, Floor Model, 43" Bed, V-Belt Drive .... 590
1840-2 Quick Change, Floor Model, 43" Bed, Pilot Wheel Turret, V-Belt Drive .... 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 .... 570
1850-2 Plain Change, Floor Model, 43" Bed, Pilot Wheel Turret, V-Belt Drive .... 570

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" x 1-9/16"

TAILSTOCK

Spindle travel ........ 2½"
Spindle graduations .... 1/16"
Morse Taper center .... 2 No. 2
Tailstock set over for taper turning .... 11/16"

TURRET

Distance across flats: 5½"
Six position, self indexing with adjustable stops
Turret holes, diameter 3/16"--3/4" on special order
Turret holes bored from headstock of lathe
Maximum stroke of turret: 4½" x 8" x 8" x 16" x 16"

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.
8 Section V-belt. Belt size, 40 x 3/4"
Four step countershaft to jackshaft drive.
8 Section V-belt. Belt size, 30 x 3/4"
Double V-belt drive. Jack shaft to spindle.
A section V-belts. Belt sizes, 3/4" x 1/4"
Jack shaft and countershaft mounting—Ball bearing

MOTOR

Use 1½ H.P. 1750 R.P.M. motor with sleeve bearings

LATHE EQUIPMENT

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

OVERALL DIMENSIONS

Model 1820—L84" W30" H48½"
Model 1821—L81" W30" H48½"
Model 1875—L55½" W20½" H48½"
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 prefinished and dimensioned .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.

**SPECIFICATIONS**

**CAPACITY OF LATHE**
- Swing over bed and Saddle Wings: 8".
- Swing over cross slide: 5".
- Distance between centers: 18".

**THREADS AND FEEDS**
- Reversible power longitudinal feed.
- Lead Screw: 1/8" or 1/4" per inch.
- Taps: 40 selection drill or 4 to 21 per inch.
- Independent Change Gears: 17 furnished (on Lathe and 11 extra).
- Width of face of change gears: 7'-16".

**BED**
- Width of bed across ways: 6'-1"/16".
- Bed length: 3'-3"/16".
- 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. 1, No. 2, Bock Gear Hirsch 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".
- V-belt cone pulley for "A" cross section.
- V-belts: 1/8" wide, 11/32" thick.
- Number of spindle speeds: 12.
- Spindle speeds, back gears engaged 55, 80, 112, 144, 200 and 253 R.P.M.
- Spindles, direct belt driven 353, 459, 645, 831, 1187 and 1450 R.P.M.

**CARRIAGE AND CROSS SLIDE**
- Cross slide graduated in thousandths.
- Travel: 5'-1"/16".
- 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 13/16".

**COUNTERSHAFT ASSEMBLY**
- 2 speed "V" Motor Pulley: 2 3/8" x 3 3/8".
- 2 speed "V" countershaft pulley, 6" base belt from motor to countershaft.
- 4" x 1 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.
- Change Gears: 1-Threading Chart.
- 1-No. 3-1-No. 2 Morse Taper adapter.
- 1-Tool Post and wrench.
- 1-Tailstock wrench: 1-Motor Pulley.

**OVERALL DIMENSIONS**
- 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.
BAR FEED

For use on No. 1830 or No. 1830-2 Hand Screw Machines only. Maximum capacity 3/8" round stock. Maximum feed per stroke is 2". No. AC-50 Push Type Collets are used in sizes from 1/16" to 3/16". A patented arm 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


No. 595-1  Ship wt. 3 lbs.

60° MALE CENTER


CHUCK ADAPTERS

No. AC-113  Mounts 3662 and 3634 Chucks on 1 1/8" Spindle. Ship wt. 7 lbs.

No. AC-114  Mounts 3662 and 3634 Chucks on 2 1/8" Spindle. Ship wt. 7 lbs.

No. T-978  Mounts 4733 Chuck on 2 1/8" Spindle. Ship wt. 9 lbs.

No. AC-101  Threaded 1 1/8"-8 for 5" Chucks. Unfinished Face. Ship wt. 4 lbs.

No. AC-107  Threaded 2 1/8"-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 ± 453 Jacobs Chucks. Shipping wt. 1 lb.

JACOBS CENTER REST CHUCK

1/4"-1/2" capacity. Requires No. 448 Arbor.

No. 455  Shipping wt. 2 lbs.

JACOBS DRILL CHUCKS

No. 451  0-1/2" capacity. Requires No. 447 Arbor. Ship wt. 2 1/4 lbs.

No. 452  3/16"-1/4" capacity. Requires No. 448 Arbor. Ship wt. 3 1/4 lbs.

JACOBS HEADSTOCK CHUCKS

No. 453  1/8"-3/8" capacity. For 1 1/8"-8 thread spindle. Ship wt. 3 1/4 lbs.

No. 454  3/16"-1/4" capacity. For 1 1/8"-8 thread spindle. Ship wt. 4 1/2 lbs.

JACOBS COMMUTATOR CHUCK KIT

Contains a Jacobs Armature Driving Chuck, 1/4 to 3/4" capacity, and a Center Rest Chuck also 1/4 to 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-32  Spindle brake with screws for attaching. Shipping weight, 10 lbs.

BORING BARS

Used with No. 556 Boring Tool Holder

Article  Size  Ship
No. 570-A  1/4 x 4"  4 1/2 lb.
No. 570-B  3/16 x 4 1/2"  4 1/2 lb.
No. 570-C  1/8 x 5"  4 1/2 lb.
No. 570-D  3/16 x 6"  4 1/2 lb.
No. 570-E  3/16 x 7"  4 1/2 lb.
No. 570-F  7/16 x 8"  4 1/2 lb.

BITS

No. 560  Has Blank Cutter Bits, size 1/4" x 3/8" x 2"—packaged set of 6, ship wt. 1 lb.

No. 561  Has Formed Cutter Bits, size 1/4" x 3/8"—packaged set of 6, ship wt. 1 lb.

No. 558  Carbide Tipped Formed Bits, size 1/4" x 3/8"—packaged set of 6, ship wt. 1 lb.

www.OzarkToolManuals.com
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 \( \frac{1}{16} \)" to \( 1\frac{3}{4} \)". Replaces step collets, too. Step jaws provide such capacity from \( \frac{1}{16} \)" to \( \frac{1}{2} \)". All told, this single chuck handles the work of 93 collets.

No. 3662 6" diameter, 1\( \frac{1}{8} \)" center clearance, \( \frac{3}{16} \)" 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\( \frac{1}{8} \)" center clearance, \( \frac{3}{16} \)" jaw width. 3 internal and 3 external jaws. Order AC-113 or AC-114 Chuck adapter. Shipping wt., 27 lbs.

No. 4733 7\( \frac{1}{2} \)" diameter. Order No. 7976 Chuck Adapter. Shipping wt., 55 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. \( \frac{1}{16} \)" to 1", lathe bed clamp, stop plate, spanner wrench and with 1\( \frac{1}{2} \)-8 thread adapter. Shipping weight, 22 lbs.

No. 601 1-\( \frac{1}{16} \)" capacity, complete with 4 sets of jaws. \( \frac{1}{16} \)" to 1-5/16", lathe bed clamp, stop plate, spanner wrench and with 2\( \frac{1}{4} \)-8 thread adapter. Shipping weight, 25 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., 12 lb.

No. AC-35-S 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-360-2, # LA-1050, # LA-1050-1, # AC-2050 Collet Attachments. Sizes 1/16" to 1" by 32ds. Round. Ship wt., 3 lb.

No. 477-S Set of 14 # AC-75 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 1/4" by 32ds. Round. Ship wt., 1/2 lb.

No. AC-45-S Set of 19 # AC-50 Collets. 1/16" to 1/4" by 32ds. Ship wt., 8 lbs.

DRAW-IN COLLET CHUCK ATTACHMENTS

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

No. AC-152 Chucks work between 1-16" and 1\( \frac{1}{2} \)" 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.
**PRODUCTION COLLET ATTACHMENTS**

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

- **No. AC-165** Uses #33-3 Collets. For #209 Series Lathes. Ship. wt., 12 lbs.
- **No. AC-166** Uses #33-3 Collets. For #300 Series Lathes. Ship. wt., 20 lbs.
- **No. AC-360** Uses #475 Collets. For Logan 11" Lathes, Serial Number 53575 and Under. Ship. wt., 10 lbs.
- **No. AC-360-2** Uses #475 Collets. For Logan 11" Lathes, Serial Number 53576 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-350** for AC-30 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 53621 and Under. Ship. wt., 13 lbs.
- **No. LA-49-3** For 10" Lathes, Serial Number 53622 to 54010. 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 on up to 3" travel of cross feed. Adjustable tool post wedges included. Shipping weight, 20 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 and 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 #L-29-1, but with Added Lever Operation. Ship. wt., 22 lbs.
- **No. AC-304** Same as #L-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. 575-A** 3/16" Ship. wt. 3/4 lb.
- **No. 575-B** 3/32" Ship. wt. 1/4 lb.

**LATHE DOGS**

Bent Tail Type, with Square Head Set Screw.

- **No. S80-A** 3/4" Ship. wt. 1 lb.
- **No. S80-B** 1/4" Ship. wt. 1/4 lb.
- **No. S80-C** 1/4" Ship. wt. 1/2 lb.
- **No. S50-D** 1/4" Ship. wt. 1/2 lb.
- **No. S50-E** 1/4" Ship. wt. 1/2 lb.
- **No. S50-F** 1/4" Ship. wt. 1/2 lb.

**CLAMP TYPE LATHE DOGS**

- **No. S85** 1-1/4" Ship. wt. 1 lb.
- **No. S86** 1-3/4" Ship. wt. 1/4 lb.

**AUXILIARY HEAD**

Adapts Logan 11" Lathes for Oversize Work

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

Gives Logan 11" Lathes 14½" Swing over wings of carriage . . .
Ball Bearing Mounted Spindle . . . 2½", 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 smooth operation on heavy cuts essential to accuracy. Raising blocks for the tool post and tailstock assembly furnished.

**LACQUER ENAMEL**


**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. 45501 and up. Ship. wt., 35 lbs.
- **No. AC-320** For 11" Quick Change Gear Lathes. Ship. wt., 35 lbs.
PALMGREN MILLING ATTACHMENT

Mounted in 10 seconds on any 1/2" diameter tool post. Allows lathe to be used for slotting, milling, sawing, grooving, squaring, reaming, etc. jaws are 2 1/4" wide, 1 7/16" deep, and open to 2 1/4".

No. 250 Shipping weight, 14 lbs.

DRILL PAD

No. AL-JUU No. 2 Morse Taper. Ship. wt., 1 lb.

DRIVE AND FACE PLATES

LA-170 Drive Plate, 6" Dia., Threaded for 1 1/8" Spindle, ship. wt., 4 lbs.
LA-1009 Drive Plate, 6" Dia., Threaded for 2 1/4" Spindle, ship. wt., 4 lbs.
LA-344 Face Plate, 8" Dia., Threaded for 1 1/8" Spindle, ship. wt., 6 lbs.
LA-1008 Face Plate, 8" Dia., Threaded for 2 1/4" Spindle, ship. wt., 6 lbs.
2010 Face Plate, (for 12" lathes only) 10" Dia., threaded for 2 1/4" 8 Spindle, ship. wt., 16 lbs.

HEAVY DUTY COOLANT PUMP

High pressure - gear type

Light weight, portable. Operates independently of the machine tool. Delivers from 80 gallons per hour to a few drops. 20 lbs. pressure capacity. 1/25 H.P., 115 V., 60 Cy. 1 phase Motor. 7 1/2 gallon container has 5" bowl screen strainer. Complete unit includes 4 ft. of 3/8" Neoprene hose with flow control pet cock and 12" of flexible feed spout. 5 1/2 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-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., 119 lbs.
No. 418 1/4" Deep Oil Pan, for 10" Lathes, 24" Centers. Ship. wt., 122 lbs.
No. 417 1/4" Deep Oil Pan, for 10" Lathes, 31" Centers. Ship. wt., 125 lbs.
No. 1072 1/4" Deep Oil Pan, for 11" Lathes, 24" Centers. Ship. wt., 128 lbs.
No. 1078 1/4" Deep Oil Pan, for 11" Lathes, 36" Centers. Ship. wt., 130 lbs.

CARRIAGE STOPS

No. AC-234 Micrometer Carriage Stop. Collets graduated in .001". Setting may be locked for duplicate work. For all Logan Lathes. Ship. wt., 3 lbs.
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-375 For Logan 11" Lathes. 4" lever stroke. Provides lever and hand wheel operation. No. 2 Morse Tap. 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., 19 lbs.
No. AC-298 For 10" Lathes, Serial Number 50843 and Over. Ship. wt., 19 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. 3/4" 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. 565 Extra Diamond Knurler, for #555 Tool Holder, Specify Fine, Medium or Coarse. 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.

TURRET TOOL POSTS
Quickly set up on the Turret of a compound rest. Mount four tools up to 2 1/2". 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 0.018" thick, the other 0.020" 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.
Combines capacity, precision and versatility. Powerful 8 1/4" 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 5 1/2" and a 10 1/4" 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 2 5/8".

LOGAN 8-INCH SHAPERS

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Horsepower</th>
<th>Voltage</th>
<th>Motor Type</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES8-5 1/2</td>
<td>With 3/4 H.P., 1 Phase, 110/220V, 60-Cycle Motor</td>
<td></td>
<td></td>
<td></td>
<td>690 lbs.</td>
</tr>
<tr>
<td>ES6-T1 1/2</td>
<td>With 3/4 H.P., 2 Phase, 220/440V, 60-Cycle Motor</td>
<td></td>
<td></td>
<td></td>
<td>690 lbs.</td>
</tr>
<tr>
<td>ES8-5 1/4</td>
<td>With 3/4 H.P., 1 Phase, 110/220V, 60-Cycle Motor</td>
<td></td>
<td></td>
<td></td>
<td>700 lbs.</td>
</tr>
<tr>
<td>ES8</td>
<td>Shaper, Less Motor</td>
<td></td>
<td></td>
<td></td>
<td>640 lbs.</td>
</tr>
</tbody>
</table>

BLANK CUTTER BITS

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>360</td>
<td>Set of 6, Unground, measure 1/4 x 1/4 x 2.5. Heat treated high speed steel. Shipping wt., 1 lb.</td>
</tr>
</tbody>
</table>

"T" HEAD BOLTS

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Head Size</th>
<th>Ship. Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>538A</td>
<td>3/4</td>
<td>1/4 lb.</td>
<td></td>
</tr>
<tr>
<td>538B</td>
<td>3/4</td>
<td>1/4 lb.</td>
<td></td>
</tr>
<tr>
<td>538C</td>
<td>3/4</td>
<td>1 lb.</td>
<td></td>
</tr>
</tbody>
</table>

INDEX CENTERS

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Ship. Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>525</td>
<td>5 inches between centers, 3 inch swing, Index plate with divisions between 22 to 20. Shipping wt., 16 lbs.</td>
<td></td>
</tr>
</tbody>
</table>

LOGAN ENGINEERING CO.
4901 West Lawrence Avenue, Chicago 30, Illinois

SOUTHWEST SUPPLY CO.

SPECIFICATIONS

Length of ram, 19" . . . width of ram, 5 3/16" . . . width of ram ways, 5 3/16" . . . Cross rail ways, 3/4" 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 3/4" . . . tool head swivel, 360° . . . tool head diameter, 4" . . . length of cross rail, 13 3/4" . . . horizontal travel of table, 10 1/2" . . . vertical travel of table, 5 3/4" . . . 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 1/4" . . . saddle bearing, 5 3/4" . . . 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 . . . wise, swivel 300°, 5 1/4" opening, 6" width . . . weight with motor, 700 lbs. . . . overall dimensions, 15" wide, 35" deep, 51" high.

SHAPER ACCESSORIES

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. 539 A 7/16" for Cutting Keyways and Slotting on Inside Work. Ship. wt., 1 lb.

SHAPER TOOL HOLDER


SHAPER EXTENSION TOOL HOLDER

No. 541 For Inside Work. Ship. wt., 1 1/2 lbs.

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