The headstock on every Logan Lathe is designed, built and balanced for rigidity, and for smooth power, free from noise or vibration. The Logan 12" lathe headstock illustrated shows the massive proportions of the Logan spindle with 1 3/8" bore, and the ball bearing mounting that needs no adjustment for any standard rpm. Logan 9", 10" and 11" lathes also have ball bearing spindles that assure sustained accuracy and permit using high speed carbide tipped cutting tools to fullest advantage. Logan 14" Lathes have a headstock and spindle of the same basic design as that shown, but of heavier and more powerful construction.

Tailstocks on all Logan Lathes are easy to handle and provide rigid support of the work. The 14" lathe tailstock shown typifies Logan construction. It is bored for a No. 3 Morse taper. The spindle travel is 5 1/2" in graduations of 1/16". Set-over for taper turning is 9/16".

Simply adjust the Speed Control Handle while the lathe is running to obtain any desired rpm within the speed range of a Logan Variable Speed drive lathe. There is no stopping of the lathe, no shifting of belts. The speed control handle is synchronized with an easily readable rpm indicator which gives instant visual indication of spindle speed. Motor and drive assembly are enclosed and easily accessible in the lower left compartment of the cabinet base. Logan 12" and 14" Lathes are available with infinite speeds from 40 to 220 R.P.M. and from 250 to 1400 R.P.M. Models 6665 and 6630 have speeds of 50 to 310 R.P.M. and 340 to 2000 R.P.M.

The motor drive assembly of Logan Cabinet base 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 released by simply adjusting the lever on the right side of the compartment. Motor and all drive parts are easily accessible.
The Logan 14" lathe bed illustrated here is 68" long and 10" wide, with high, strong walls braced by oversized ribs. Like all Logan lathe beds, it withstands the heaviest bending and torsional stresses. Balanced sections of even thickness neutralize internal stresses. Special alloy construction, and thorough seasoning before and between machining operations make the Logan bed warp-free. The two V-ways and two flat ways on every Logan Lathe bed are precision ground. Flame hardened beds are available on 10", 11", 12" and 14" lathes.

**PRECISION CARRIAGE**

The carriage of every Logan Lathe is built for rigidity, accuracy and convenience. With its double-walled apron, lever-operated spring loaded disc type clutch, and large, legible dials the 14" lathe carriage shown is typical of Logan carriages. Large tool post and heavy compound add to rigidity. Longitudinal and cross feeds operate from spline in lead screw through worm drive and friction clutch. Additional half-nut drive from lead screw for thread cutting. Automatic lock prevents either feed from operating while the other is engaged. Gears run in oil bath.

**QUIET GEARS**

Wide, rugged, machine-cut gears are characteristic of all Logan Lathes. Shown are the quiet-running gears of the Logan 14" lathe. The special "Ductile Iron" change gears of this lathe have as much as triple the strength of cast iron gears and tensile strength superior to most steel gears. Convenient levers. Automatic Safety Gear as described on page 17 is standard equipment on all 14", 12", 11" lathes and 1825, 1875 10" lathes.

**CONVENIENT STORAGE**

The Logan Cabinet Base Lathes, except the 14" x 28", have a drop center pan with extra chip capacity and provide storage space in the tailstock pedestal.

3 compartments (as illustrated) with built-in lock in the door.

*3 pull-out drawers with individual or built-in lock for each drawer.

*Available in 10", 11", and 12" Lathes only.
Logan builds extra dependability into every part of this big, rugged screw-cutting lathe. It takes the heaviest cuts with no perceptible vibration. The variable-speed drive lets you change speed while the work is turning...without the trouble of shifting belts.

The oversize spindle, with 1½-in. bore, turns on precision ball bearings that need no adjustment within the full range of spindle speeds. And these bearings maintain their accuracy far longer than other types of bearings.

These are only a few of the many other advanced design and construction features engineered into this Logan lathe:

---

**SPECIFICATIONS—LOGAN 14" ENGINE LATHE**

**CAPACITY OF LATHE**
- Swing over bed: 14½" to 14 1/8" in.
- Swing over cross slide: 9" in.
- Between centers: 40" in.

**CARRIAGE AND CROSS SLIDE FEEDS**
- Quick change gear box and automatic apron lever-operated safety clutch
- Worm drive from lead screw spline for power feed
- Longitudinal feed: .0006" to .0035" per spindle revolution
- Cross feed: 6 times longitudinal feed

**HEADSTOCK AND SPINDLE**
- Hole through spindle: 1½" clearance
- Spindle bearings: 4 ABEC Class 7 bearings
- Hardened and ground steel spindle
- Spindle nose: L-O
- Variable-speed drive: direct, 340 to 2000 rpm, back gears engaged, 30 to 310 rpm

**CROSS SLIDE AND COMPOUND REST**
- Cross slide travel: 10" in.
- Compound rest travel: 4" in.
- Compound rest graduated 90° in both directions
- Tool post opening for ½ x 1½" tool holder

**BED**
- Width of bed across ways: 10" in.
- Length of bed: 68" in.
- Precision-ground ways, two prismatic V-ways and two flat ways
- Flame-hardened ways

**TAILSTOCK**
- Spindle travel: 5½" in.
- Spindle graduation: 1/16" in.
- Morse taper center: #3
- Tailstock set-over for taper turning: 9/16" in.

**UNDERNEATH DRIVE**
- Ball Bearing Variable Speed

**MOTOR AND CONTROLS**
- (priced separately)
- 3 hp 1725 rpm, 3 ph. motor recommended
- Drum switch or reversing magnetic motor starter with pushbutton controls available
- Dinabrade or two-speed motor also available

**DIMENSIONS**
- 82" L—25" W—51" H

**EQUIPMENT INCLUDED WITH LATHE**
- 7½" drive plate, 2 No. 3 M.T. 60° centers, threading dial, threading chart, tool post and wrench, motor pulley, automatic safety gear, spindle adapter sleeve to No. 3 M.T., tailstock wrench, and necessary belts.
- Shipping Weight: Approx. 1950 lbs.
Extra heavy turret construction assures maximum smoothness and accuracy with this Logan lathe, which also embodies the basic engineering improvements found in the Logan 6555 engine lathe. For fast, flexible and profitable operation with dependable holding of tolerances this is the turret lathe to buy. Logan lathes are noted for long-term accuracy.

LOGAN 14" TURRET LATHE SPECIFICATIONS

**CAPACITY OF LATHE**
- Swing over bed: 14 3/8"
- Swing over cross slide: 6 1/8"

**CARRIAGE AND CROSS SLIDE FEEDS**
- Quick change gear box and automatic apron
- Lever-operated safety clutch
- Worm drive from feed rod spline for power feeds
- Longitudinal feed: 0.0006" to 0.0350" per spindle revolution
- Cross feed: 0.6 times (x) longitudinal feed

**HEADSTOCK AND SPINDLE**
- Hole through spindle: 1 3/4" clearance
- Spindle bearings: (4) ABEC Class 7 bearings
- Hardened and ground steel spindle
- Spindle nose: L-O
- Variable-speed drive, Spindle speeds with two-speed motor:
  - Direct drive: 340 to 2000 rpm high motor speed
  - 170 to 1000 rpm low motor speed
- Back gears engaged:
  - 50 to 310 rpm high motor speed
  - 25 to 155 rpm low motor speed

**DOUBLE TOOL POST CROSS SLIDE**
- Cross slide travel: 10"

**BED**
- Width of bed across ways: 10"
- Length of bed: 0.08" Precision ground ways, two prismatic V-ways and two flat ways
- Flame-hardened ways

**UNDERNEATH DRIVE**
- Ball Bearing Variable Speed

**MOTOR AND CONTROLS**
- Cross slide graduated in thousandths with position indicators
- Triple-thread cross feed screw mounted on self-lubricating bronze bearings
- Adjustable stops for cross slide movement
- Adjustable double tool post with adjustable wedges
- Tool post slots: 5/8" x 2 1/4"

**HEXAGON TURRET**
- Clearance, center of tool holes to top of turret cross slide: 3 9/16"
- Turret head indexes and locks automatically
- Width of turret block across flats: 8 1/2"
- Bolt holes in face: 7/16"—14 tpi
- Turret block locked by cam operated locking ring
- Maximum travel at one setting: 9"
- Slide length: 24"
- Base length: 31 1/2"
- 7/8" machined holes can be bored up to 1 3/4" diameter

**OVERALL DIMENSIONS:**
- Lathe less accessories
  - Length: 92"
  - Width: 30"
  - Height: 51"

**STANDARD EQUIPMENT**
- Turret Lathe, as illustrated, except for motor and controls which are priced separately. Includes finish bored hexagon turret up to 1 3/4" diameter holes. Specify hole size when ordering. All necessary belts and wrenches.
- Shipping Weight: Approx. 2200 lbs.
Model 6510
Screw Cutting Lathe on Steel Pedestal Cabinet Base

Model 6560
Screw Cutting Lathe on Steel Pedestal Cabinet Base
RESULTS PROVE THEIR SUPERIOR PERFORMANCE

- 14½" Swing Over Bed
- 9" Swing Over Saddle
- 1⅛" Spindle Hole
- 1⅛/6" Draw-in Collet Capacity
- 28" or 40" Between Centers
- Ball Bearing Variable Speed Drive
- Precision Carriage
- Ball Bearing Spindle
- 40 to 1400 R.P.M.
- Two V-Way, Two Flat Way, Precision Ground Bed

### SCREW CUTTING LATHES

<table>
<thead>
<tr>
<th>LATHE NO.</th>
<th>SHPG. WT. (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6510</td>
<td>1625</td>
</tr>
<tr>
<td>6510-H</td>
<td>1625</td>
</tr>
<tr>
<td>6520</td>
<td>1625</td>
</tr>
<tr>
<td>6520-H</td>
<td>1625</td>
</tr>
<tr>
<td>6560</td>
<td>1850</td>
</tr>
<tr>
<td>6560-H</td>
<td>1850</td>
</tr>
<tr>
<td>6561</td>
<td>1850</td>
</tr>
<tr>
<td>6561-H</td>
<td>1850</td>
</tr>
<tr>
<td>No. 8081</td>
<td>1850</td>
</tr>
</tbody>
</table>

### SPECIFICATIONS

#### CAPACITY OF LATHE
- Swing over bed: 14½".
- Swing over saddle or cross slide: 9".
- Center distance: 28" (6510) / 40" (6560).

#### THREADS AND FEEDS
- Quick change gear box and automatic apron.
- Wear drive from lead screw spline for power feeds.
- Longitudinal feed: 3000 to 0350 per spindle revolution.
- Cross feed: 6 times longitudinal feed.
- Half nut drive from lead screw thread for thread cutting.
- Threads: 48 selections R.H. or L.H. - 4 to 224 per inch.
- Lead screw diameter and threads per inch: 1½-8.

#### HEADSTOCK AND SPINDLE
- Spindle bearings: (4) sealed and shielded precision ball bearings.
- Hardened and ground alloy steel spindle.
- Hole through spindle: 1½".
- Draw in Collet Capacity: 1½".
- Spindle nose diameter and threads per inch: 2½-8.
- Variable speed drive: Spindle speeds: Direct Drive - 250 to 1400 rpm; with Back Gear Engaged - 40 to 220 rpm.
- Spindle nose adapter to ¾" Morse.

#### CROSS SLIDE AND COMPOUND REST
- Cross slide travel: 10".
- Compound rest travel: 4".
- Compound rest graduated 90° in both directions.
- Tool post opening for ⅜" x ⅜" tool holder.

#### BED
- Width of bed across ways: 10".
- Length of bed: 60" (6510) / 68" (6560).
- Precision ground ways, two prismatic V-Ways and two flat ways.

#### TAILSTOCK
- Spindle travel: 5½".
- Spindle graduated: 1/10°.
- Morse taper center: 83/64".
- Tailstock set-over from taper turning: 9/16".

#### UNDERNEATH DRIVE
- Ball Bearing Variable Speed

#### MOTOR AND SWITCH
- Use 2 H.P., 3 phase motor, 1725 R.P.M.
- Drum type reversing switch furnished.

#### EQUIPMENT INCLUDED WITH LATHE
- Drive plate: 1⅞" for 2½" - 8 spindle.
- No. 3 M.T. 50" centers.
- Threading dial.
- Tool post and wrench.
- Motor pulley.
- Automatic Safety Gear.
- Drum reversing switch.
- Spindle adapter above to No. 3 M.T.
- Tailstock Wrench.
- Necessary Belts

#### OVERALL DIMENSIONS
- 6510: 66⅛" L, 27" W, 51" H
- 6560: 83" L, 27" W, 51" H

### Important
To obtain maximum performance from the Logan 14" Lathe, either purchase No. 1122 2 HP, 3 phase motor with the lathe or send us your own motor for installation on a cost basis in the lathe so that we may properly balance the complete unit. If a lathe is ordered less motor, a $25.00 charge will be made for installing a motor for final inspection of the lathe and the motor removal prior to shipment.
Accuracy and smooth power are designed and built into these rugged, balanced lathes. Gears are extra wide and strong. Shafts are extra heavy. Lead screws have a full ¾" diameter. The precision carriage rides on a two-V-way, two-flat-way bed that is rugged, precision-ground and warp-free. The heavy special alloy spindle turns on four oversize ball bearings, and needs no bearing adjustment for any speed within its wide rpm range. This advanced design plus precise, extra heavy construction and dynamic balancing of every completed lathe combine to assure sustained accuracy and smooth, quiet operation.

Compact all steel cabinet bases provide a clean-cut appearance and save floor space. Three compartments or three drawers inside each cabinet store and protect tools and work. The Variable Speed Drive provides instant rpm adjustment on work requiring variation of spindle speed.

At only small extra cost, the bed is furnished flame hardened. The L-00 Spindle Nose also available at extra cost.
CAPACITY OF LATHE
Swing over bed ........................................... 12''
Swing over saddle cross slide, screw cutting lathes 7 1/4''
Swing over saddle cross slide, turret lathes .............. 6 1/8''
Center Distance .................................................. 23'' and 35''

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 — 5/8''-8

HEADSTOCK AND SPINDLE
Spindle Bearings: (4) Sealed, Precision Ball Bearings
Hardened and ground alloy steel spindle
Hole through Spindle: 1 1/8''
Draw-in Collet Capacity: 1/8''
Spindle Nose diameter and threads per inch: 2 1/2''-8
Drive Plate Diameter: 6''
Spindle Nose Adapter to #2 Morse
Variable Speed Drive — Infinite spindle speeds — 40 to 1400 rpm

CROSS SLIDE AND COMPOUND REST, SCREW CUTTING LATHE
Cross Slide Travel: 6 1/4''
Compound Rest Travel: 2 1/4''
Compound Rest graduated 90° in both directions
Tool Post Opening for Tool Holder: 3 1/2'' x 3 1/2''

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 openings: 1 1/4'' x 1 1/4''

BED
Width of bed across ways: 6 5/16''
Length of bed ............................................. 43 1/8'' and 55 5/8''
Precision ground ways, 2 prismatic “V” ways and 2 flat ways

TAILSTOCK
Spindle Travel .................................................. 4''
Spindle Graduations .......................................... 1/32''
Morse Taper Center ........................................#2
Tailstock set-over for Taper turning — 1 1/32''

PILOT WHEEL TURRET
Distance across flats: 5 1/4''
Six position, self indexing with adjustable stops
Turret holes, diameter 5/8'' regular — 3 1/2'' on special order
Turret holes bored from headstock of lathe
Maximum stroke of turret — 7 1/4''

UNDERNEATH DRIVE
Ball Bearing Variable Speed

MOTOR AND SWITCH
Use 1 HP, 3-Phase motor 1725 rpm
Drum type reversing switch furnished

EQUIPMENT INCLUDED WITH SCREW CUTTING LATHE
1 — Drive Plate 1 1/2'' for 2 1/4''—8 spindle
2 60° Centers
1 Threading Dial
1 Threading Chart
1 #2 Morse Taper Adapter Sleeve
1 Tool Post and Wrench
1 Tailstock Wrench
1 Automatic Safety Gear
1 Drum Reversing Switch
1 Motor Pulley
Necessary Belts
Parts List and Instruction Book

DIMENSIONS

<table>
<thead>
<tr>
<th></th>
<th>Bed</th>
<th>Overall</th>
<th>Width</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>Centers</td>
<td>Length</td>
<td>Length</td>
<td></td>
<td></td>
</tr>
<tr>
<td>23''</td>
<td>43''</td>
<td>59''</td>
<td>22''</td>
<td>49''</td>
</tr>
<tr>
<td>35''</td>
<td>55''</td>
<td>70 1/2''</td>
<td>22''</td>
<td>49''</td>
</tr>
</tbody>
</table>

SCREW CUTTING LATHE

<table>
<thead>
<tr>
<th>Lathe No</th>
<th>Description</th>
<th>Ship Wt. (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2535-V</td>
<td>Quick Change, 3-Drawer Cabinet Model, 23'' Centers, Variable Speed Drive</td>
<td>1040</td>
</tr>
<tr>
<td>2537-V</td>
<td>Quick Change, 3-Drawer Cabinet Model, 35'' Centers, Variable Speed Drive</td>
<td>1090</td>
</tr>
<tr>
<td>2555-V</td>
<td>Quick Change, Pedestal Cabinet Model, 23'' Centers, Variable Speed Drive</td>
<td>1075</td>
</tr>
<tr>
<td>2557-V</td>
<td>Quick Change, Pedestal Cabinet Model, 35'' Centers, Variable Speed Drive</td>
<td>1105</td>
</tr>
</tbody>
</table>

TURRET LATHES

<table>
<thead>
<tr>
<th>Lathe No</th>
<th>Description</th>
<th>Ship Wt. (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2535-2-V</td>
<td>Quick Change, Pedestal Cabinet Model, 43'' Bed, Pilot Wheel Turret, Variable Speed Drive</td>
<td>1180</td>
</tr>
<tr>
<td>2537-2-V</td>
<td>Quick Change, Pedestal Cabinet Model, 55'' Bed, Pilot Wheel Turret, Variable Speed Drive</td>
<td>1240</td>
</tr>
<tr>
<td>2545-2-V</td>
<td>Quick Change, 3-Drawer Cabinet Model, 43'' Bed, Pilot Wheel Turret, Variable Speed Drive</td>
<td>1200</td>
</tr>
<tr>
<td>2547-2-V</td>
<td>Quick Change, 3-Drawer Cabinet Model, 55'' Bed, Pilot Wheel Turret, Variable Speed Drive</td>
<td>1250</td>
</tr>
</tbody>
</table>

IMPORTANT
To obtain maximum performance from the Logan 12' Lathe either purchase No. 1120 1 HP, 3 phase motor with the lathe or send us your own motor for installation on a cost basis in the lathe so that we can dynamically balance the complete unit. If a lathe is ordered less motor, a $25.00 charge will be made for installing a motor for final inspection of the lathe and the motor removal prior to shipment.
Logan 11" SWING LATHES

- 11\(\frac{1}{16}\)" COLLET CAPACITY
- 1\(\frac{3}{8}\)" SPINDLE BORE
- 24" and 36" CENTERS
- 16-SPEED V-BELT DRIVE

These 11" swing Logans have the ruggedness and sustained accuracy to fill a definite need in both industrial and school shops. The advanced design features include a ball bearing spindle that needs no adjustment for any speed within its wide range. The Automatic Apron with lever-operated, disc type clutch moves over a rugged bed with its two V-ways and two flat ways precision ground. Ruggedly proportioned as well as precision built, these 11" Logans are accurate when you set them up and still accurate after years of use. All cabinet models have three enclosed compartments or drawers for convenient tool and work storage.

The bed is furnished flame hardened at small extra cost.
CAPACITY OF LATHE
Swing over bed .................................. 11½"
Swing over saddle cross slide, screw cutting lathes ... 6½"
Swing over saddle cross slide, turret lathes .......... 4½"

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 .0100" 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 24 per inch
Lead screw diameter and threads per inch 34"-8

BED
Width of bed across ways: .................................. 6½"
Length: .................................................................. 43½" and 55½"
Depth: ................................................................... 6½"
Precision ground ways: 2 prismatic "V" ways and 2 flat ways

HEADSTOCK AND SPINDLE
Spindle Bearings: Sealed Ball Bearings, precision type with preloading
Hardened and ground alloy steel spindle
Hole through spindle = 1½"
Draw-in collet capacity ........................................ 1½"
Spindle Nose Diameter and threads per inch: 2¾"-8
Width of face of ball gear and back gears: 5¼"
Drive plate diameter: 5¼"
16 Spindle Speeds (Floor and Bench Models)
Direct drive: 325, 385, 470, 535, 685, 820, 1020, 1230, 1430 rpm
Back gears: 40, 62, 75, 96, 145, 170, 200 and 235 rpm
16 Spindle Speeds (3-Drawer Cabinet and Pedestal Base Models)
Direct drive: 230, 315, 410, 560, 690, 820, 1070 and 1430 rpm
Back gears: 40, 50, 65, 95, 100, 135, 180 and 240 rpm

CROSS SLIDE AND COMPARET RESIST,
SCREW CUTTING LATHE
Cross Slide Travel 6¼"
Cross Slide graduated in thousandths
Cross feed screw mounted on self-lubricating bronze bearings
Compound Rest Travel 2¾"
Compound rest graduated in thousandths
Compound swivel graduated 90° in both directions
Tool post opening for tool holder shank 5½" × 3¼"

CROSS SLIDE, TURRET LATHE
Cross Slide Travel 6¼"
Cross Slide graduated in thousandths
Cross feed screw mounted on self-lubricating bronze bearings
Adjustable double tool post with adjustable wedges
Tool post slots 3½" × 15½"

TAILSTOCK
Spindle Travel: 4½"
Spindle Graduations: 1/16"
Morse Taper center: No. 2
Tailstock set-over for taper turning: 1½"

PILOT WHEEL TURRET
Distance across flats 5½"
Six position, self-indexing with adjustable stops
Turret holes, diameter 5¼" regular - 5½" on special order
Turret holes bored from headstock of lathe
Maximum stroke of turret - 7½"

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 (Cabinet Models)
Two step motor pulley to countershaft drive, B section V-belt, Belt size, 45" × 9¼"
Four step countershaft to jackshaft drive, B section V-belt, Belt size, 30" × 6½"
Double V-belt drive, Jackshaft to spindle, A section V-Belts, Belt size, 45" × 9¼"
Jackshaft and countershaft mounting - Ball Bearing

MOTOR
¾ HP Ball Bearing, 1725 RPM Motor is recommended If lathe is ordered without motor, specify bore of motor pulley to be furnished with lathe

EQUIPMENT INCLUDED WITH SCREW
CUTTING LATHE
1 Drive Plate
2 60° Centers
1 Threading Dial
1 Threading Chart
1 Drum Reversing Switch
1 Motor Pulley
1 Automatic Safety Gear Parts List and Instruction Book
1 Necessary Belts

DIMENSIONS

<table>
<thead>
<tr>
<th>Center</th>
<th>Bed</th>
<th>Overall</th>
<th>Length</th>
<th>Width</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>24&quot;</td>
<td>43&quot;</td>
<td>54½&quot;</td>
<td>30&quot;</td>
<td>48½&quot;</td>
<td></td>
</tr>
<tr>
<td>36&quot;</td>
<td>55&quot;</td>
<td>66½&quot;</td>
<td>30&quot;</td>
<td>48½&quot;</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Floor Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>24&quot; x 43&quot;</td>
</tr>
<tr>
<td>36&quot; x 55&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bench Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>24&quot; x 43&quot;</td>
</tr>
<tr>
<td>36&quot; x 55&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cabinet Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>24&quot; x 43&quot;</td>
</tr>
<tr>
<td>36&quot; x 55&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Screw Cutting Lathes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lathe No.</td>
</tr>
<tr>
<td>1915</td>
</tr>
<tr>
<td>1917</td>
</tr>
<tr>
<td>1920</td>
</tr>
<tr>
<td>1922</td>
</tr>
<tr>
<td>1925</td>
</tr>
<tr>
<td>1927</td>
</tr>
<tr>
<td>1929</td>
</tr>
<tr>
<td>1975</td>
</tr>
<tr>
<td>1977</td>
</tr>
<tr>
<td>1977</td>
</tr>
<tr>
<td>1985</td>
</tr>
<tr>
<td>1987</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Turret Lathes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lathe No.</td>
</tr>
<tr>
<td>1923-2</td>
</tr>
<tr>
<td>1927-2</td>
</tr>
<tr>
<td>1940-2</td>
</tr>
<tr>
<td>1942-2</td>
</tr>
<tr>
<td>1945-2</td>
</tr>
<tr>
<td>1947-2</td>
</tr>
</tbody>
</table>

NOTE: If a cabinet model lathe is ordered less motor, a $50.00 charge will be made for installing a motor for final inspection of the lathe and the motor removal prior to shipment.
For industry's great variety of medium and small lathe turning operations, these 10" swing Logans are tools of proven accuracy and economy. In school shops they have been the training tools of many of today's top flight metal workers. In advanced design features these 10" swing lathes match the larger Logan models. They have the Logan ball bearing spindle, V-belt drive, the Automatic Apron, and the precision ground, 2-V-way, 2-flat-way bed. Their versatility is increased by the complete line of accessories and attachments listed in the following section of this catalog. Their sustained accuracy and low cost performance is in the records of well run shops. Rugged, precision ground, 2-V-way, 2-flat-way beds furnished flame hardened at only small added cost.
CAPACITY OF LATHE
Swing over bed ........................................... 10½"
Swing over saddle cross slide—screw cutting lathes 2½"
Distance between centers .............................. 24"
Swing over saddle cross slide, turret lathe ........ 4½"

THREADS AND FEEDS
Quick change gear box and automatic span
Worm drive from lead screw spline for power feeds
Friction clutch on power feed
Longitudinal feed .0018" to 1000" per spindle revolution
Cross feed .25 times longitudinal feed
Half nut drive from lead screw lead for thread cutting
Threads 48 selections RH or LH 4 to 224 per inch
Lead screw diameter: 7/8" to 8 thread

BED
Width of bed across ways .................................. 6½"
Bed Length ..................................................... 104"
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 ........................................ 3½"
Draw-in collet capacity .................................... 3/4"
Drive plate diameter ...................................... 6"
Morse Taper with adapter, No. 3—No. 2
Size of centers used, Morse Taper No. 2
Spindle nose diameter and threads per in. 1½" x 8
Number of spindle speeds (except No. 1825 and No. 1875) 12
Number of spindle speeds (No. 1825 and No. 1875) 16
Spindle Speeds (all 10" lathes except No. 1825 and 1875) 100 rpm
Back gear: 55, 70, 90, 143, 185, and 240 rpm.
Spindle Speeds (for No. 1825 and 1875 cabinet models only) 100 rpm
Direct drive: 230, 315, 410, 566, 600, 820, 1070, and 1450 rpm.
Back gear: 40, 50, 65, 95, 100, 125, 180, and 240 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 travel—graduated 90° in both directions Tool post opening for tool holder........... 7/8" x 7/8"

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: 3/16" x 3/16"

TAILSTOCK
Spindle travel ............................................... 2½"
Spindle graduations ...................................... 1/16"
Morse Taper center ....................................... No. 2
Tailstock set over for taper turning.................... 3/16"

PILOT WHEEL TURRET
Distance across flats: 5½"
Six position, self indexing with adjustable stops
Turret holes, diameter 3/16" regular—3/16" on special order
Turret holes bored from headstock of lathe
Maximum stroke of turret: 7/16"

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 (Cabinet Models)
Two step motor pulley to countershaft drive.
E Section V-belt, Belt size, 40" x 5/8"
Four step countershaft to jackshaft drive.
E section V-belt, Belt size, 30" x 5/8"
Double V-belt drive, Jackshaft to spindle.
A section V-belts, Belt sizes, 49" x 5/8"
Jackshaft and countershaft mounting—Ball bearing

MOTOR
Use: 1/2 H.P. 1725 R.P.M. motor

EQUIPMENT WITH SCREW CUTTING LATHES
1" Drive Plate 1 No. 3—No. 2 Morse
2" 60" Centers Taper Adaptor
1" 1" Threading Dial Tool Post and Wrench
1" 1" Threading Chart Tailstock Wrench
1" 1" Drum Reversing Switch Motor Pulley
Necessary Belts Parts List and
Instruction Book

(Automatic Safety Gear furnished with 1825 and 1875 models only)

OVERALL DIMENSIONS
Overall Length Width Height
Model 1815 45" 30" 21 1/2"
Model 1820, 1830-2, 1840-2 54" 30" 48 1/2"
Model 1825, 1835-2, 1845-2, 1875 59" 20 1/2" 48"

SCREW CUTTING LATHES

<table>
<thead>
<tr>
<th>Lathe No.</th>
<th>Description</th>
<th>Ship. W. (Lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1815</td>
<td>Quick Change, Bench Model, 24&quot; Centres, V-Belt Drive</td>
<td>435</td>
</tr>
<tr>
<td>1820</td>
<td>Quick Change, Floor Model, 24&quot; Centres, V-Belt Drive</td>
<td>540</td>
</tr>
<tr>
<td>1825</td>
<td>Quick Change, 3-Drawer Cabinet Model, 24&quot; Centres, V-Belt Drive</td>
<td>790</td>
</tr>
<tr>
<td>1875</td>
<td>Quick Change, Pedestal Cabinet Model, 24&quot; Centres, V-Belt Drive</td>
<td>765</td>
</tr>
</tbody>
</table>

TURRET LATHES

<table>
<thead>
<tr>
<th>Lathe No.</th>
<th>Description</th>
<th>Ship. W. (Lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1830-2</td>
<td>Hand Screw, Floor Model, 43&quot; Bed, Pilot Wheel Turret, V-Belt Drive</td>
<td>550</td>
</tr>
<tr>
<td>1835-2</td>
<td>Quick Change, Pedestal Cabinet Model, 43&quot; Bed, Pilot Wheel Turret, V-Belt Drive</td>
<td>830</td>
</tr>
<tr>
<td>1840-2</td>
<td>Quick Change, Floor Model, 43&quot; Bed, Pilot Wheel Turret, V-Belt Drive</td>
<td>600</td>
</tr>
<tr>
<td>1845-2</td>
<td>Quick Change, 3-Drawer Cabinet Model, 43&quot; Bed, Pilot Wheel Turret, V-Belt Drive</td>
<td>855</td>
</tr>
</tbody>
</table>

NOTE: If a cabinet model lathe is ordered less motor, a $25.00 charge will be made for installing a motor for final inspection of the lathe and the motor removal prior to shipment.
Logan 9" SWING LATHES

- 28" or 17" Between Centers
- 1/2" Collet Capacity
- 25/32" Spindle Hole
- Quick or Plain Change Gears
- Automatic or Plain Apron

For situations where a smaller lathe is indicated, here is the sustained accuracy inherent in Logan advanced design. In addition to their accuracy, these No. 9B series lathes combine remarkable work capacity and versatility. Ball bearing spindles provide a range of 55 to 1450 rpm without adjustment and permit full use of high speed cutting tools. Ruggedly proportioned throughout, they take heavy cuts smoothly. On small work in machine shops, tool rooms and manufacturing these lathes can be depended upon for precision results. For the farm and home work shop they provide professional standards of performance with the utmost economy.

Specifications

Four Models with 28" Centers

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Ship Wt.</th>
<th>(Lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9B28-1</td>
<td>Quick Change Gears, Automatic Apron</td>
<td>310</td>
<td></td>
</tr>
<tr>
<td>9B28-21</td>
<td>Quick Change Gears, Plain Apron</td>
<td>300</td>
<td></td>
</tr>
<tr>
<td>9B28-41</td>
<td>Plain Change Gears, Automatic Apron</td>
<td>300</td>
<td></td>
</tr>
<tr>
<td>9B28-61</td>
<td>Plain Change Gears, Plain Apron</td>
<td>290</td>
<td></td>
</tr>
</tbody>
</table>

Four Models with 17" Centers

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Ship Wt.</th>
<th>(Lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9B17-1</td>
<td>Quick Change Gears, Automatic Apron</td>
<td>285</td>
<td></td>
</tr>
<tr>
<td>9B17-21</td>
<td>Quick Change Gears, Plain Apron</td>
<td>275</td>
<td></td>
</tr>
<tr>
<td>9B17-41</td>
<td>Plain Change Gears, Automatic Apron</td>
<td>275</td>
<td></td>
</tr>
<tr>
<td>9B17-61</td>
<td>Plain Change Gears, Plain Apron</td>
<td>265</td>
<td></td>
</tr>
</tbody>
</table>

No. 9B28-1 Quick Change Gears, Automatic Apron

Capacity of Lathe

Swing over bed: 9½"
Swing over cross slide: 5"
Distance between centers: 28" or 17"

Threads and Feeds

Reversible power longitudinal feed.
Reversible power cross feed (on Automatic Apron Only).
Threads: 48 selections RH or LH
Crossfeed: 2½ times longitudinal feed (on Quick Change Models)

Bed

Width of Bed: 6½"
Bed length: 44" or 33"
Precision ground ways: 2 prismatic "V" ways and 2 flat ways.

Headstock and Spindle

Spindle mounted on grease-sealed ball bearings preloaded in the headstock at the factory.
Morse Taper with adapter No. 5, No. 2. Back gear shaft bearings—self-lubricating bronze bearings.
Size of centers used: Morse Taper No. 2. Hole thru spindle:
Spindle nose diameter and threads per inch: 2½"
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: 333, 459, 645, 831, 1157 and 1450 R.P.M.

Tailstock

Spindle travel: 23½"
Spindle graduations: 5/16"
Morse taper center: No. 2
Tailstock top sets over for taper turning ½".

Carriage and Cross Slide

Cross slide graduated in thousandths, travel: 9½"
Cross feed screw mounted on self-lubricating bronze bearings.
Compound rest swivel—graduated 90° in both directions.
Tool post opening for tool holder shank: 9/8 x 9/8".
Size of cutter bits used: 9/8" x 9/8".

Countershaft Assembly

1 speed "V" motor pulley: 2¾"-2½"
1 speed "V" countershift pulley: 6"-6½"
30" x ½" "V" belt from motor to countershaft.
44" x ½" "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
1—No. 3. No. 2 Morse taper adapter
1—Tool post and wrench
1—Motor pulley
2—60" centers
1—Threading chart
1—Tailstock Wrench
Necessary Belts
Parts List and Instruction Book

Overall Dimensions

(including Countershaft Assembly)
28" Centers: 50" long, 28" wide, 15½" high
17" Centers: 39" long, 28" wide, 15½" high

Motor

Use ¾ or 1½ H.P. 1725 R.P.M. Motor—Suitable for sideward mounting. If lathe is ordered without motor, specify either ¾ or 5/8" bore of motor pulley to be furnished with lathe.
3-JAW UNIVERSAL CHUCKS

Furnished with two sets of jaws, one set for inside chucking and the other for outside chucking. Jaws are automatically self-centering. Complete with threaded back plate except No. 536 and 531, on which the body of the chuck itself is threaded. When ordered with a lathe, chuck is fitted to the lathe.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Check Size</th>
<th>Fitted for Spindle</th>
<th>Logan Lathe Size</th>
<th>Ship. Wt., lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>536</td>
<td>5&quot; Med. Duty</td>
<td>1/2&quot;-8 thd.</td>
<td>9&quot;-1/2&quot;</td>
<td>10</td>
</tr>
<tr>
<td>531</td>
<td>5&quot; Med. Duty</td>
<td>1/2&quot;-8 thd.</td>
<td>9&quot;-1/2&quot;</td>
<td>13</td>
</tr>
<tr>
<td>1063-AC-108</td>
<td>6&quot; Med. Duty</td>
<td>L-00</td>
<td>11&quot;-12&quot;-14&quot;</td>
<td>23</td>
</tr>
<tr>
<td>1063-AC-3000</td>
<td>6&quot; Med. Duty</td>
<td>L-00</td>
<td>11&quot;-12&quot;-14&quot;</td>
<td>23</td>
</tr>
</tbody>
</table>

4-JAW INDEPENDENT CHUCKS

Jaws are independently adjustable and are reversible. The body of No. 444 Chuck is threaded. All other independent chucks are furnished with threaded back plates fitted for the lathe spindle.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Check Size</th>
<th>Fitted for Spindle</th>
<th>Logan Lathe Size</th>
<th>Ship. Wt., lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>444</td>
<td>6&quot; Med. Duty</td>
<td>1/2&quot;-8 thd.</td>
<td>9&quot;-10&quot;</td>
<td>13</td>
</tr>
<tr>
<td>1064-AC-117</td>
<td>6&quot; Rev. Duty</td>
<td>1/2&quot;-8 thd.</td>
<td>9&quot;-10&quot;</td>
<td>20</td>
</tr>
<tr>
<td>1064-AC-3000</td>
<td>6&quot; Med. Duty</td>
<td>L-00</td>
<td>11&quot;-12&quot;-14&quot;</td>
<td>21</td>
</tr>
<tr>
<td>1284/AC-117</td>
<td>8&quot; Rev. Duty</td>
<td>L-00</td>
<td>11&quot;-12&quot;-14&quot;</td>
<td>27</td>
</tr>
<tr>
<td>1284/3000</td>
<td>8&quot; Med. Duty</td>
<td>L-00</td>
<td>11&quot;-12&quot;-14&quot;</td>
<td>27</td>
</tr>
<tr>
<td>1320/L-O</td>
<td>8&quot; Med. Duty</td>
<td>L-00</td>
<td>1&quot;-4&quot;</td>
<td>24</td>
</tr>
<tr>
<td>1310/6313</td>
<td>10&quot;</td>
<td>L-00</td>
<td>1&quot;-4&quot;</td>
<td>30</td>
</tr>
<tr>
<td>1310/6306</td>
<td>10&quot;</td>
<td>L-00</td>
<td>1&quot;-4&quot;</td>
<td>30</td>
</tr>
</tbody>
</table>

6-JAW BUCK AJUST-TRU CHUCKS

The 6-jaw Buck chuck replaces both collets and step collets. Spindle hole capacity from 1/16" to 1/2" and step jaw capacity from 1/16" to 5/8". All told this single chuck handles the work of 93 collets. Accuracy and speed of operation is the same as for the 3-jaw Ajust-Tru chucks.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Check Size</th>
<th>Fitted for Spindle</th>
<th>Logan Lathe Size</th>
<th>Ship. Wt., lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3661/AC-113</td>
<td>6&quot;</td>
<td>1/2&quot;-8 thd.</td>
<td>9&quot;-1/2&quot;</td>
<td>36</td>
</tr>
<tr>
<td>3662/AC-114</td>
<td>6&quot;</td>
<td>1/2&quot;-8 thd.</td>
<td>11&quot;-12&quot;-14&quot;</td>
<td>36</td>
</tr>
<tr>
<td>3662/2369</td>
<td>6&quot;</td>
<td>L-00</td>
<td>11&quot;-12&quot;-14&quot;</td>
<td>36</td>
</tr>
</tbody>
</table>

3-JAW BUCK AJUST-TRU CHUCKS

These chucks have the accuracy of 4-jaw chucks plus the speed and versatility of universal chucks. Work can be chuck for 0.005" precision in one minute, and duplicate parts can be re-chucked with the same accuracy with no further adjustment. They eliminate most needs for stub arbors, mandrels, and special fixtures.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Check Size</th>
<th>Fitted for Spindle</th>
<th>Logan Lathe Size</th>
<th>Ship. Wt., lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3664/AC-113</td>
<td>6&quot;</td>
<td>1/2&quot;-8 thd.</td>
<td>9&quot;-1/2&quot;</td>
<td>35</td>
</tr>
<tr>
<td>3665/2265</td>
<td>6&quot;</td>
<td>L-00</td>
<td>11&quot;-12&quot;-14&quot;</td>
<td>35</td>
</tr>
<tr>
<td>4733/201</td>
<td>7/8&quot;</td>
<td>L-00</td>
<td>12&quot;-14&quot;</td>
<td>44</td>
</tr>
<tr>
<td>4733/2263</td>
<td>7/8&quot;</td>
<td>L-00</td>
<td>12&quot;-14&quot;</td>
<td>44</td>
</tr>
<tr>
<td>6309/6311</td>
<td>9&quot;</td>
<td>1/2&quot;-8 thd.</td>
<td>14&quot;</td>
<td>44</td>
</tr>
<tr>
<td>6309/6302</td>
<td>9&quot;</td>
<td>L-00</td>
<td>14&quot;</td>
<td>88</td>
</tr>
<tr>
<td>6309/6314</td>
<td>9&quot;</td>
<td>L-00</td>
<td>14&quot;</td>
<td>88</td>
</tr>
</tbody>
</table>

JACOBS DRILL CHUCKS

No. 451 6-32 cap. Requires No. 447 or 448 Arbor. Ship. wt. 2 1/2 lbs.
No. 452 3/8"-1/2" cap. Requires No. 448 or 446 Arbor. Ship. wt. 3 1/2 lbs.

JACOBS HEADSTOCK CHUCKS

No. 453 1/2"-5/8" capacity. For 1/2"-8 thread spindle. Ship. wt. 3 1/2 lbs.
No. 454 3/4"-3/4" capacity. For 1/2"-8 thread spindle. Ship. wt. 4 1/2 lbs.

JACOBS CENTER REST CHUCK

1/4"-3/4" capacity. Requires No. 448 or 446 Arbor.
No. 455 Shipping wt. 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.

CHUCK ADAPTERS (Semi-Finished)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-101</td>
<td>1/2&quot;-8 thd.</td>
<td>3/4&quot;</td>
<td>4 lbs.</td>
<td>2303</td>
<td>L-00</td>
<td>1064</td>
<td>1284</td>
<td>5 lbs.</td>
<td></td>
</tr>
<tr>
<td>AC-104</td>
<td>1/2&quot;-8 thd.</td>
<td>3/4&quot;</td>
<td>5 lbs.</td>
<td>2302</td>
<td>L-00</td>
<td>1064</td>
<td>1284</td>
<td>5 lbs.</td>
<td></td>
</tr>
<tr>
<td>AC-106</td>
<td>1/2&quot;-8 thd.</td>
<td>3/4&quot;</td>
<td>7 lbs.</td>
<td>2312</td>
<td>L-00</td>
<td>1063</td>
<td>1310</td>
<td>7 lbs.</td>
<td></td>
</tr>
<tr>
<td>AC-108</td>
<td>1/2&quot;-8 thd.</td>
<td>3/4&quot;</td>
<td>9 lbs.</td>
<td>2301</td>
<td>L-00</td>
<td>1063</td>
<td>1310</td>
<td>9 lbs.</td>
<td></td>
</tr>
<tr>
<td>AC-113</td>
<td>1/2&quot;-8 thd.</td>
<td>3/4&quot;</td>
<td>5 lbs.</td>
<td>2303</td>
<td>L-00</td>
<td>1064</td>
<td>1310</td>
<td>5 lbs.</td>
<td></td>
</tr>
<tr>
<td>AC-114</td>
<td>1/2&quot;-8 thd.</td>
<td>3/4&quot;</td>
<td>7 lbs.</td>
<td>2323</td>
<td>L-00</td>
<td>1063</td>
<td>1310</td>
<td>7 lbs.</td>
<td></td>
</tr>
<tr>
<td>AC-117</td>
<td>1/2&quot;-8 thd.</td>
<td>3/4&quot;</td>
<td>9 lbs.</td>
<td>2302</td>
<td>L-00</td>
<td>1063</td>
<td>1310</td>
<td>9 lbs.</td>
<td></td>
</tr>
<tr>
<td>AC-120</td>
<td>1/2&quot;-8 thd.</td>
<td>3/4&quot;</td>
<td>11 lbs.</td>
<td>2301</td>
<td>L-00</td>
<td>1063</td>
<td>1310</td>
<td>11 lbs.</td>
<td></td>
</tr>
</tbody>
</table>

CHUCK ARBORS

No. 445 No. 3 M.T. for No. 451 Jacobs Chuck. Shipping wt. 1 lb.
No. 446 No. 2 M.T. for No. 452 and 455 Jacobs Chucks. Ship. wt. 1 lb.
No. 447 No. 2 M.T. for No. 451 Jacobs Chuck. Shipping wt. 1 lb.
No. 448 No. 2 M.T. for No. 452 and 455 Jacobs Chucks. Ship. wt. 1 lb.
PRODUCTION COLLET ATTACHMENT

Hand lever type draw-in collet chuck opens and closes while lathe spindle is in motion. Fast and accurate for production work. Bar stock may be hand fed through lathe spindle. In addition to closing mechanism and hollow draw bar, a spindle nose cap, closing sleeve and wrench are furnished.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-166</td>
<td>800 and 1800 series</td>
<td>AC-30</td>
<td>1(\frac{3}{8})&quot;</td>
<td>12</td>
</tr>
<tr>
<td>AC-360-2</td>
<td>11(\frac{1}{2})&quot; lathes serial #52576 and over</td>
<td>475</td>
<td>1(\frac{3}{4})&quot;</td>
<td>18</td>
</tr>
<tr>
<td>2744</td>
<td>12&quot; lathes serial #68249 and over, threaded spindle</td>
<td>475</td>
<td>1(\frac{3}{4})&quot;</td>
<td>22</td>
</tr>
<tr>
<td>2743</td>
<td>12&quot; lathes with L-00 spindle and over threaded spindle</td>
<td>475</td>
<td>1(\frac{3}{4})&quot;</td>
<td>23</td>
</tr>
<tr>
<td>8000</td>
<td>14&quot; lathes, with threaded spindle</td>
<td>475</td>
<td>1(\frac{3}{4})&quot;</td>
<td>30</td>
</tr>
<tr>
<td>8001</td>
<td>14&quot; lathes, with L-00 spindle and over threaded spindle</td>
<td>475</td>
<td>1(\frac{3}{4})&quot;</td>
<td>32</td>
</tr>
<tr>
<td>8152</td>
<td>14&quot; lathes L-00 spindle and over threaded spindle</td>
<td>475</td>
<td>1(\frac{3}{4})&quot;</td>
<td>32</td>
</tr>
</tbody>
</table>

DRAW-IN COLLET CHUCK ATTACHMENTS

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

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-211</td>
<td>0&quot;</td>
<td>AC-30</td>
<td>1(\frac{3}{8})&quot;</td>
<td>4</td>
</tr>
<tr>
<td>AC-152</td>
<td>10&quot;</td>
<td>AC-30</td>
<td>1(\frac{3}{4})&quot;</td>
<td>5</td>
</tr>
<tr>
<td>LA-1050-1</td>
<td>11(\frac{1}{2})&quot; lathes serial #52576 and over</td>
<td>475</td>
<td>1(\frac{1}{4})&quot;</td>
<td>10</td>
</tr>
<tr>
<td>2380</td>
<td>12&quot; lathes serial #68249 and over threaded spindle</td>
<td>475</td>
<td>1(\frac{3}{4})&quot;</td>
<td>11</td>
</tr>
<tr>
<td>2390</td>
<td>12&quot; with L-00 spindle and over threaded spindle</td>
<td>475</td>
<td>1(\frac{3}{4})&quot;</td>
<td>12</td>
</tr>
<tr>
<td>6300</td>
<td>14&quot; lathes threaded spindle</td>
<td>475</td>
<td>1(\frac{3}{4})&quot;</td>
<td>13</td>
</tr>
<tr>
<td>6340</td>
<td>14&quot; lathes L-00 spindle</td>
<td>475</td>
<td>1(\frac{3}{4})&quot;</td>
<td>13</td>
</tr>
</tbody>
</table>

No. 7025 MARK O-A PIVOT TYPE LATHE TRACER ATTACHMENT (Specify size of Logan Lathe)

METAL SPINNING ATTACHMENT

Equips any 10", 11" or 12" Logan Lathe for metal spinning operations. Rest is 10 inches long. Easily attached to or detached from the lathe.

No. AC-385 Shipping wt., 17 lbs.

PALMGREN MILLING ATTACHMENT

Mounted in 10 seconds on any tool post up to 1\(\frac{1}{2}\)" diameter. Fits Logan 9", 10", 11", and 12" Lathes. Allows lathe to be used for slotting, milling, sawing, grooving, squaring, recessing, etc. Jaws are 2\(\frac{1}{2}\)" wide, 1\(\frac{3}{4}\)" deep, and open to 2\(\frac{1}{2}\)°.

No. 250 Shipping weight, 14 lbs.
LEVER-MATIC COLLET CHUCK WITH CO-NETIC COLLET

Easily mounted directly on the threaded spindle nose, the Lever-Matic "runs as true as the spindle." Finger tip grip control provides a tremendously powerful grip for tough steel under a heavy cut, or a firm, yet gentle grip on tubing. Takes maximum bar stock capacity of the spindle. Permits internal and external chucking by hand lever or air cylinder. Runs cool. Provides quickest, easiest collet and arbor changes. Precision built from high grade steel.

The Co-Netic Collet used with the Lever-Matic has a full-floating, self-aligning action in each jaw, assuring uniform pressure over en tire length.

<table>
<thead>
<tr>
<th>Lever-Matic Sizes</th>
<th>Co-Netic Collets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cat. No.</td>
<td>Size</td>
</tr>
<tr>
<td>100 180</td>
<td>1/8&quot;</td>
</tr>
<tr>
<td>150-L</td>
<td>1/8&quot;</td>
</tr>
<tr>
<td>150-L-0</td>
<td>1/8&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

COLLET RACKS
Clamp to rear way of Logan Lathe bed. Provide convenient storage and protection for collets.
No. AC-340 for AC-30 Collets on 9" and 10" Lathe. Ship wt., 7 lbs.
No. AC-340 for AC-50 Collets on 12" Lathe. Ship wt., 7 lbs.
No. AC-345 for No. 475 Collets on 11" and 12" Lathe. Ship wt., 7 lbs.
No. 6325 for No. 475 Collets on 14" Lathe. Ship wt., 7 lbs.

DRAW-IN COLLETS
No. 475 Sizes 1/8" to 1/2" by 32nds. Round. Ship wt., 7 lbs.
No. 476 Set of 16 #475 Collets, 1/8" to 1" by 16ths. Ship wt., 9 lbs.
No. 477 Set of 32 #475 Collets, 1/8" to 1" by 32nds. Ship wt., 18 lbs.

PUSH TYPE COLLETS
No. AC-45 Set of 19 AC-50 Collets, 1/8" to 3/8" by 32nds. Ship wt., 8 lbs.

AUTOMATIC SAFETY GEAR
- Guards Gear Train Against Overload Shock
- Installed in Your Own Shop in 15 Minutes
- Fits Logan 9", 10", 11", 12" and 14" Quick Change Gear Lathe

In school shops or where operators are inexperienced, here is insurance against heavy repairs. When a sudden overload of the carriage feed using a half nut occurs the Automatic Safety Gear instantly throws out and a clacking noise warns of the overload. On correction of the overload condition, the Safety Gear automatically resumes engaged position. By its automatic throw-out action, the Automatic Safety Gear protects all lathe gears from spindle to gear box in case the carriage or the tool becomes jammed against movement. It also protects the gears within the gear box for all except 52 threads per inch and finer, or corresponding feeds, where there is tremendous torque build-up within the gear box.

No. LB-240 Fits Logan 9" Quick Change Gear Lathe. Shipping weight, 7 lbs.
No. LB-775-1 Fits Logan 10" and 11" Quick Change Gear Lathe with Serial Numbers 67839 and over. Shipping weight 7 lbs.
Now furnished as standard equipment on new 11" Q.C. Lathe and Models 1825, 1875 of the 10" Q.C. Lathe.
No. LB-774-1 Fits Logan 10" and 11" Quick Change Gear Lathe from Serial Number 46550 to 67838 and 2900 Series 12" Lathe. Shipping weight 9 lbs.
No. 2510 Fits Logan 12", 2500 Series Lathe and all 14" Lathe. Shipping weight 7 lbs. Now furnished as standard equipment on new 12" and 14" Lathe.
No. LB-240 or No. LB-775 will, on request, be factory-installed on a new lathe.

SETS FOR CONVERSION OF BENCH MODELS TO FLOOR MODELS

Each set includes Pan, Legs and Countershaft support

No. LA-1072 1 1/2" Deep Oil Pan, for 10" and 11" Lathe, 24" Centers. Ship wt., 128 lbs.
No. LA-1078 1 1/2" Deep Oil Pan, for 11" Lathe, 36" Centers. Ship wt., 130 lbs.


LEVER TAILSTOCKS

Provides lever operation to the tailstock in addition to the regular handwheel tailstock operation. Particularly valuable for repeat operations in production.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>For Lathe</th>
<th>Stroke</th>
<th>Morse</th>
<th>Taper</th>
<th>Ship, Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-240</td>
<td>10&quot;</td>
<td>0.09&quot;</td>
<td>No. 2</td>
<td>15 lbs.</td>
<td></td>
</tr>
<tr>
<td>LB-192</td>
<td>10&quot;</td>
<td>0.09&quot;</td>
<td>No. 2</td>
<td>15 lbs.</td>
<td></td>
</tr>
<tr>
<td>AC-241</td>
<td>11&quot;</td>
<td>0.09&quot;</td>
<td>No. 2</td>
<td>30 lbs.</td>
<td></td>
</tr>
<tr>
<td>AC-375</td>
<td>12&quot;</td>
<td>0.09&quot;</td>
<td>No. 2</td>
<td>34 lbs.</td>
<td></td>
</tr>
<tr>
<td>AC-384</td>
<td>12&quot;</td>
<td>0.09&quot;</td>
<td>No. 2</td>
<td>43 lbs.</td>
<td></td>
</tr>
</tbody>
</table>

STANDARD TAILSTOCKS

Tailstock assemblies if purchased for a turret lathe may be used to replace the turret for regular lathe operations. (Compound rest assemblies shown on the right may be ordered to replace the double tool post cross slide on a turret lathe.)

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>For Lathe Size</th>
<th>Ship, Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA-3-1</td>
<td>10&quot;</td>
<td>24 lbs.</td>
</tr>
<tr>
<td>LA-1065</td>
<td>11&quot;</td>
<td>29 lbs.</td>
</tr>
<tr>
<td>2080</td>
<td>12&quot;</td>
<td>22 lbs.</td>
</tr>
</tbody>
</table>

COMPOUND REST ASSEMBLIES

Compound rest assemblies may be ordered to replace the double tool post cross slide on turret lathes to convert for regular lathe operation. Also see tailstock assemblies on left. In ordering compound rest assemblies, give serial number of lathe on which it is to be used.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>For Lathe Size</th>
<th>Ship, Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA-49-5</td>
<td>10&quot; Lathe, serial #50843 and over for all 11&quot; lathes</td>
<td>13 lbs.</td>
</tr>
<tr>
<td>2083</td>
<td>12&quot; Lathe, #2000 series</td>
<td>25 lbs.</td>
</tr>
</tbody>
</table>

QUICK CHANGE GEAR ATTACHMENT

Converts a Logan plain change gear lathe for quick change gear operation.

Provides 48 threads and feeds in either direction. Screw threads from 8 to 224 per inch. Two lever adjustment. Changing 36-tooth stud gear for 72-tooth stud gear, also furnished, provides additional threads of from 4 to 7 per inch. Complete with a replacement lead screw, parts and installation instructions. Attachments have longitudinal power feed and power cross feed from .0044" to .2500" per spindle revolution.

No. LA-1300-1—For 10" and 11" lathes, 24 centers. Ship. wt., 24 lbs.
No. LA-959-1—For 10" Lathes, 31 centers. Ship. wt., 24 lbs.
No. LA-958-1—For 11" Lathes, 36 centers. Ship. wt., 26 lbs.

LOGAN METRIC TRANSPosing GEARS

Equip Logan 10" and 11" lathes to cut metric screw threads.

Each of these complete sets 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 .200 mm. pitch. All gears semi-steel, 16 pitch, 3/8" wide and carefully machine.

No. AC-130 For 10" Plain Change Gear Lathes. Shipping weight, 29 lbs.
No. AC-143-1 For 10" Quick Change Gear Lathes with Serial No. 40501 and up. Shipping weight, 35 lbs.
No. AC-320-1 For 11" Quick Change Gear Lathes. Shipping weight, 35 lbs.

LATHES FACTORY EQUIPPED WITH TRANSPosing GEARS

May be specified by prefixing the letter "M" to the catalog number of the lathe ordered. In addition to metric transposing gears, gear guards, bracket and metric transposing chart, standard gears, gear bracket and chart necessary for cutting English screw threads are also shipped with these "M" lathes.
**Logan TURRETS and CROSS SLIDES**

**HEXAGON TURRETS**

**LA-70 Bed Turret**
Fits bedways of Logan 10", 11" and 12" Screw Cutting Lathes. Interchangeable with the tailstock, and used with a Double Tool Post Cross Slide to replace the compound rest; it converts such as lathe into a turret lathe. Extra heavy construction assures maximum smoothness and accuracy. Turret lock furnished provides increased rigidity for heavy cuts. 5 1/2" across turret head flats—adjustable gib on side—furnished unholed. Can be bored at factory at no extra charge if ordered with a lathe. Specify 5/8" or 3/4" turret holes.

**No. LA-70** Pilot Wheel Turret. 7/8" max. stroke. Shipping Wt., 110 lbs.

**No. 6600 Bed Turret**
Fits bedways of Logan 14" Screw Cutting Lathes. Clearance center of tool holes to top of turret cross slide, 2 5/16". Turret head indexes and locks automatically. Width of turret block across flats, 8 3/8". Bolt holes in face, 3/4"-14. Turret block locked by cam operated locking ring. Maximum travel at one setting, 9"; Slide length, 21". Base length, 17". Furnished with 3/8" machined holes. Can be bored at factory up to 1 1/4" diameter holes when ordered with lathe. Specify hole size when ordering and see price list for factory boring, counterboring and facing charge.

**No. 6600** Pilot Wheel Turret. Shipping Wt., 330 lbs.

**No. 521 TAILSTOCK TURRET**
Fits in No. 2 Morse Taper of Tailstock

**TURRET TOOL POSTS**

Quickly set up on the T-slot of a compound rest. Mount four tools up to 3/4", 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. Square tool block indexes at 30° intervals, providing a quick set-up for threading.

**For Screw Cutting Lathes**
- **No. 512** For 10" Screw Cutting Lathes, Serial Number 50843 and Over. For all 9" and 11" Screw Cutting Lathes. Shipping Wt., 4 lbs.
- **No. 513** For 10" Screw Cutting Lathes, Serial Number 50842 and Under. Shipping Wt., 4 lbs.
- **No. 612** For 14" Screw Cutting Lathes. Shipping Wt., 17 lbs.

**For Turret Lathes**
- **No. 514** For all 10" and 2900 series 12" Turret Lathes. Shipping Wt., 5 lbs.
- **No. 2094** For 2500 series 12" Turret Lathes. Shipping Wt., 6 lbs.
- **No. 612/6423** For 6530 Turret Lathe

**DOUBLE TOOL POST CROSS SLIDES**

**Lever Operated**
Clamps directly to lathe bed. Lever operated. Has adjustable stops with maximum travel of 3°. Adjustable wedges for tool holder slots included.

- **No. LA-25-1** For Logan 10" Lathes. Wt., 38 lbs.
- **No. LA-1108** For Logan 11" Lathes. Wt., 39 lbs.
- **No. LA-29-1-L** Same as LA-29-1 but with added lever operation. Wt., 27 lbs.
- **No. 2095-L** Same as 2095 but with added lever operation. Wt., 30 lbs.

**Manual Feed**
Replaces compound rest for hand wheel or power cross feed operation. In ordering double tool post cross slides, give serial number of lathe on which it is to be used.

- **No. LA-29-1** For Logan 10" Lathes, serial #29668 and over. For all Logan 11" Lathes. Wt., 24 lbs.
- **No. 2095** For 12" Lathes, 2500 series. Wt., 27 lbs.
- **No. 6410** For 14" Lathes. Wt., 65 lbs.
SOLID BORING BAR
Used with No. 556 Boring Tool Holder. Can be ground for internal thread cutting as well as for boring.

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Size</th>
<th>Ship Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>575-A</td>
<td>3/8 x 4&quot;</td>
<td>1/2 lb.</td>
</tr>
<tr>
<td>570-B</td>
<td>3/8 x 4 5/8&quot;</td>
<td>1/2 lb.</td>
</tr>
<tr>
<td>570-C</td>
<td>3/8 x 5&quot;</td>
<td>1/2 lb.</td>
</tr>
<tr>
<td>570-D</td>
<td>3/8 x 5 5/8&quot;</td>
<td>1/2 lb.</td>
</tr>
<tr>
<td>570-E</td>
<td>3/8 x 7&quot;</td>
<td>1/2 lb.</td>
</tr>
<tr>
<td>570-F</td>
<td>3/8 x 8&quot;</td>
<td>1/2 lb.</td>
</tr>
</tbody>
</table>

HEAVY DUTY BORING TOOL SETS
Mounts on compound and is held in place by regular tool post.

No. A-C-120 Heavy Duty Boring Bar Tool Set for Logan 9", 10", 11", and 12" lathes. Includes 3/8", 1/2", 3/4", and 1" bars. Each bar holds a tool bit at each end, one mounted at 45°, the other at 90°. Tool bits and wrenches included. Also holds all sizes of No. 570 bars. Shipping weight, 8 lbs.

No. 6375 Heavy Duty Boring Bar Tool Set for Logan 14" lathe. Includes 3/8", 1/2", 3/4", 1", and 1 1/4" bars with two bits on each bar. Complete set packed in wood box, 1 holder, 6 boring bars, tool bits and wrenches. Shipping weight, 45 lbs.

CUTTER BITS
No. 561 HSS Formed Cutter Bits, size 3/4" x 3/4"—package of 6. ship wt. 1 lb.
No. 558 Carbide Tipped Formed Bits, size 3/4" x 3/4"—package of 6. ship wt. 1 lb.
No. 660 HSS Blank Cutter Bits, size 1/8" x 1/8"—package of 6. Ship wt. 1 lb.

CENTER COUNTERSINK DRILLS
Drill and countersink bearings for Lathe Center. Three sizes:

<table>
<thead>
<tr>
<th>Drill Size</th>
<th>Countersink Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/8&quot;</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>7/8&quot;</td>
<td>5/8&quot;</td>
</tr>
</tbody>
</table>

LATHES DOGS
Bent Tail Type with Square Head Set Screw (Standard Lathe Dog) and Hollow Headless Set Screw (Safety Lathe Dog).

<table>
<thead>
<tr>
<th>Clamp Type</th>
<th>No.</th>
<th>Safety No.</th>
<th>Cop.</th>
<th>Ship Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>585</td>
<td></td>
<td>585</td>
<td>1/4&quot;</td>
<td>1/2 lb.</td>
</tr>
<tr>
<td>586</td>
<td></td>
<td>586</td>
<td>3/8&quot;</td>
<td>1 lb.</td>
</tr>
</tbody>
</table>

DRIVE AND FACE PLATES

<table>
<thead>
<tr>
<th>Drive/Plate Type</th>
<th>Description</th>
<th>Diameter</th>
<th>Spindle Size</th>
<th>Ship Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA-170</td>
<td>Drive Plate</td>
<td>5/8&quot;</td>
<td>3/8&quot;</td>
<td>4 lbs.</td>
</tr>
<tr>
<td>LA-1009</td>
<td>Drive Plate</td>
<td>5/8&quot;</td>
<td>1/2&quot;</td>
<td>6 lbs.</td>
</tr>
<tr>
<td>LA-344</td>
<td>Drive Plate</td>
<td>5/8&quot;</td>
<td>1&quot;</td>
<td>10 lbs.</td>
</tr>
<tr>
<td>LA-1008</td>
<td>Face Plate</td>
<td>5/8&quot;</td>
<td>3/8&quot;</td>
<td>6 lbs.</td>
</tr>
<tr>
<td>LA-1019</td>
<td>Face Plate</td>
<td>5/8&quot;</td>
<td>1/2&quot;</td>
<td>12 lbs.</td>
</tr>
<tr>
<td>283</td>
<td>Face Plate</td>
<td>5/8&quot;</td>
<td>1&quot;</td>
<td>16 lbs.</td>
</tr>
<tr>
<td>2430</td>
<td>Face Plate</td>
<td>5/8&quot;</td>
<td>3/8&quot;</td>
<td>21 lbs.</td>
</tr>
<tr>
<td>4800</td>
<td>Face Plate</td>
<td>5/8&quot;</td>
<td>1&quot;</td>
<td>27 lbs.</td>
</tr>
<tr>
<td>4807</td>
<td>Drive Plate</td>
<td>5/8&quot;</td>
<td>1&quot;</td>
<td>13 lbs.</td>
</tr>
</tbody>
</table>

ANTI-FRICTION CENTER

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Ship Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>595</td>
<td>No. 2 Morse Taper Shank</td>
<td>3 lbs.</td>
</tr>
<tr>
<td>596</td>
<td>No. 3 Morse Taper Shank</td>
<td>4 lbs.</td>
</tr>
</tbody>
</table>

LACQUER ENAMEL

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Paint Color</th>
<th>Ship Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>498</td>
<td>1 pt. Matches Standard Logan Light Gray</td>
<td>Brush or Spray</td>
<td>2 lbs.</td>
</tr>
<tr>
<td>499</td>
<td>1 pt. Matches Standard Logan Dark Gray</td>
<td>Brush or Spray</td>
<td>2 lbs.</td>
</tr>
</tbody>
</table>

ADJUSTABLE MACHINE LIGHT
Bolts directly on machine, or slips into bracket mount. Double arm has three flexible joints. Takes 100-watt, A-21 lamp. Overall length, 37 1/2", 8" heavy duty cord and plug.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Paint Color</th>
<th>Ship Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>Koolshied for Above</td>
<td>1 lb.</td>
<td>4 lbs.</td>
</tr>
</tbody>
</table>
ACCESSORIES

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.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Lathes</th>
<th>Maximum Taper Length At One Setting</th>
<th>Per It.</th>
<th>Angle 0°</th>
<th>Ship. Wt. Lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-270</td>
<td>460-1400</td>
<td>10&quot;</td>
<td>4&quot;</td>
<td>19°</td>
<td>15</td>
</tr>
<tr>
<td>AC-272</td>
<td>9B series</td>
<td>10&quot;</td>
<td>4&quot;</td>
<td>19°</td>
<td>15</td>
</tr>
<tr>
<td>AC-374</td>
<td>10&quot;</td>
<td>119°</td>
<td>4&quot;</td>
<td>19°</td>
<td>18</td>
</tr>
<tr>
<td>AC-293</td>
<td>11&quot;</td>
<td>119°</td>
<td>4&quot;</td>
<td>19°</td>
<td>20</td>
</tr>
<tr>
<td>AC-226</td>
<td>12&quot;</td>
<td>119°</td>
<td>4&quot;</td>
<td>19°</td>
<td>22</td>
</tr>
<tr>
<td>72500</td>
<td>12&quot;</td>
<td>10&quot;</td>
<td>4½</td>
<td>20°</td>
<td>48</td>
</tr>
<tr>
<td>63298</td>
<td>14&quot;</td>
<td>10&quot;</td>
<td>4½</td>
<td>20°</td>
<td>69</td>
</tr>
</tbody>
</table>

*TELESCOPIC TAPER ATTACHMENT*—Telescopic cross feed screw eliminates disengaging cross feed screw nut as necessary with plain Taper Attachments.

†For current "2900" series 12" Lathes only.

**For all 14"x25" Lathes and for 9"x40" Lathes from serial #87862.

DIRECT READING CROSS FEED DIAL—CANNOT BE USED WITH TELESCOPIC TAPER ATTACHMENT

No. 2470 Direct Reading Cross Feed Dial Assembly for 12" 2500 series lathes. Includes cross feed screw and nut. To be installed by customer.

No. 2471 Same as 2470 but factory installed on new 12" lathe in place of standard cross feed dial assembly.

No. 6151 Direct Reading Cross Feed Dial Assembly for 14" engine lathes. Includes cross feed screw and nut. To be installed by customer.

No. 6152 Same as 6151 but factory installed on new 14" engine lathe in place of standard cross feed screw and nut.

MICA UNDERCUTTER

No. 490 For Logan 9", 10", 11" and 12" Lathes. Shipping weight, 8 lbs.


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 16" Swing over bed and 141/2" Swing over saddle wings. Ball Bearing Mounted Spindle. 21/4", 6-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. A.C-400 Shipping weight, complete, 140 lbs.

CARRIAGE STOPS

No. A.C-234 Micrometer Carriage Stop. Collar graduated in .001". Setting may be locked for duplicate work. For 9", 10", 11" and 12" Logan Lathes. Ship. wt. 3 lbs.

No. 6365 Micrometer Carriage Stop. Graduated in .001" with collar lock. For Logan 14" Lathes. Ship. wt. 3 lbs.


MULTIPLE CARRIAGE STOP

Six positions. Mounts on lathe bed.

No. A.C-435 For all 11" Lathes. Ship. wt. 5 lbs.

No. A.C-437 For all Quick Change 11" Lathes. Ship. wt. 5 lbs.

6425 For 14" Lathes. Ship. wt. 5 lbs.

THREADED STOPS


CENTER RESTS

The center rest (or steady rest) mounts on the lathe bed to support long thin work and prevent distortion. Three adjustable machined jaws.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-280</td>
<td>3°</td>
<td>9B series</td>
<td>9 lbs.</td>
</tr>
<tr>
<td>AC-182</td>
<td>3°</td>
<td>9B series</td>
<td>9 lbs.</td>
</tr>
<tr>
<td>AC-189</td>
<td>3°</td>
<td>14&quot;</td>
<td>10 lbs.</td>
</tr>
<tr>
<td>AC-190</td>
<td>3°</td>
<td>14&quot;</td>
<td>10 lbs.</td>
</tr>
<tr>
<td>AC-1789</td>
<td>3°</td>
<td>14&quot;</td>
<td>11 lbs.</td>
</tr>
<tr>
<td>6317</td>
<td>4°</td>
<td>14&quot;</td>
<td>23 lbs.</td>
</tr>
</tbody>
</table>

FOLLOWER RESTS

The follower rest mounted on the lathe carriage and travels with the carriage to support long thin work. Two adjustable machined jaws.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-285</td>
<td>3°</td>
<td>9°</td>
<td>4 lbs.</td>
</tr>
<tr>
<td>AC-196</td>
<td>3&quot;</td>
<td>10&quot;, 11&quot;</td>
<td>5 lbs.</td>
</tr>
<tr>
<td>AC-2199</td>
<td>3&quot;</td>
<td>12°</td>
<td>6 lbs.</td>
</tr>
<tr>
<td>6320</td>
<td>4½&quot;</td>
<td>14°</td>
<td>9 lbs.</td>
</tr>
</tbody>
</table>

BAR FEED

For use on No. 1830-2 Hand Screw Machines only. Maximum capacity ½" round stock. Maximum feed per stroke is 2". No. AC-50 Push Type Collets are used in sizes from ½" to 1½. 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. 4½ lbs.
ELECTRIC MOTORS

Stock motors listed below are manufactured by dependable sources and have drip proof open type frames. Single phase motors are capacitor type start-stop-reverse, and three phase motors are quick reversing. We definitely recommend three phase motors on motor sizes of 1 H.P. or larger and wherever possible on the smaller sizes. There will be a charge on a cost basis for mounting customers' motors on Logan machines. In addition to the stock motors listed, we can supply motors for special requirements on request.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>H.P.</th>
<th>R.P.M.</th>
<th>Phase</th>
<th>Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1101</td>
<td>1/2</td>
<td>1725</td>
<td>1</td>
<td>110/220</td>
</tr>
<tr>
<td>1105</td>
<td>1/2</td>
<td>1725</td>
<td>1</td>
<td>110/220</td>
</tr>
<tr>
<td>1106</td>
<td>1/2</td>
<td>1725</td>
<td>1</td>
<td>110/220</td>
</tr>
<tr>
<td>1110</td>
<td>1/2</td>
<td>1725</td>
<td>3</td>
<td>220/440</td>
</tr>
<tr>
<td>1111</td>
<td>1/2</td>
<td>1725</td>
<td>3</td>
<td>220/380</td>
</tr>
<tr>
<td>1114</td>
<td>1/2</td>
<td>1800/900</td>
<td>3</td>
<td>220</td>
</tr>
<tr>
<td>1116C</td>
<td>1/2</td>
<td>1725</td>
<td>1</td>
<td>110/220</td>
</tr>
<tr>
<td>1116L</td>
<td>3/4</td>
<td>1725</td>
<td>1</td>
<td>110/220</td>
</tr>
<tr>
<td>1118C</td>
<td>3/4</td>
<td>1725</td>
<td>1</td>
<td>220</td>
</tr>
<tr>
<td>1120</td>
<td>1</td>
<td>1725</td>
<td>3</td>
<td>220</td>
</tr>
<tr>
<td>1122</td>
<td>2</td>
<td>1725</td>
<td>3</td>
<td>220</td>
</tr>
<tr>
<td>1122DB</td>
<td>3</td>
<td>1725</td>
<td>3</td>
<td>220</td>
</tr>
<tr>
<td>1123</td>
<td>3</td>
<td>1725</td>
<td>3</td>
<td>220</td>
</tr>
<tr>
<td>1124</td>
<td>2/1</td>
<td>1800/900</td>
<td>3</td>
<td>220</td>
</tr>
<tr>
<td>1124DB</td>
<td>2/1</td>
<td>1800/900</td>
<td>3</td>
<td>220</td>
</tr>
<tr>
<td>1125</td>
<td>3/4</td>
<td>1800/900</td>
<td>3</td>
<td>220</td>
</tr>
<tr>
<td>1125DB</td>
<td>3/4</td>
<td>1800/900</td>
<td>3</td>
<td>220</td>
</tr>
</tbody>
</table>

NOTE: Two speed motors are single voltage. 220V motors are stocked. 440V motors must be ordered. Motors having "DB" suffix are direct-connected motors.

MOTOR SWITCHES AND MOTOR CONTROLS

Optional electrical equipment for all Logan Cabinet Model Lathes and Shapers. Price includes complete installation and wiring when ordered with Lathe or Shaper.

No. 0388 High-Low Switch for 2-speed motor. Used in addition to regular drum reversing switch or reversing magnetic starter furnished or ordered with lathe.

No. 0391 Drum Switch for 2 or 3 H.P. single speed regular motor.

No. 0408 Drum Switch for 2 or 3 H.P. single speed dynamic-braking motor.

No. 2325 Thermal Overload Switch. Separate unit used between regular drum switch and motor. Automatically cuts out to prevent damage to motor from overheating due to overload.

No. 2330 Magnetic Overload and Undervoltage Switch. Magnetic relay unit used in conjunction with regular drum switch, providing complete complete motor protection plus safety protection to machine and operator. Stops motor when voltage drops below safe level or power is interrupted.

No. 6350 Reversing Magnetic Starter (3 Phase). Complete motor protection as well as safety protection to machine and operator. Full motor load carried through starter only—control circuit carries only enough current to operate the magnets which open and close the contacts. Push button station has FORWARD-REVERSE-STOP. Large mushroom head stop button is extra sensitive and easily operated from a wide angle for quick stops. For 10" 11" and 12" cabinet model lathes and 6510 and 6560 series 14" lathes. NOTE: Can also be ordered for bench and floor model 10" and 11" lathes for customer installation.

No. 6350DB Reversing Magnetic Starter. Same as 6350 but for dynamic-braking motor.

No. 6350T Reversing Magnetic Starter with Control Transformer. Same as 6350 but with transformer reducing voltage to push buttons. Recommended for 440V installation.

No. 6350DBT Reversing Magnetic Starter with Control Transformer. Same as 6350-T but for dynamic-braking motor.

No. 6355 Reversing Magnetic Starter (3 Phase). Same as 6350 Reversing Magnetic Starter but for use on the 6565 Lathe and 6530 Turret Lathe.

No. 6355DB Reversing Magnetic Starter. Same as 6355 but for dynamic-braking motor.

No. 6355T Reversing Magnetic Starter with Control Transformer. Same as 6355-T but for dynamic-braking motor.

SAFETY BRAKES AND POWER CONTROLS

No. 655DB-T Reversing Magnetic Starter with Control Transformer. Same as 655-T but for dynamic-braking motor.

No. AC-115 Drum Reversing Switch, Switch Box and 30' Rubber Covered Cable. For 9' Lathes.

J.I.C. CONTROLS Magnetic Starter (fused or non-fused), oilight push button controls, and totally enclosed motors to J.I.C. specifications. For these and any other unspecified controls, contact factory.
Logan
8" SHAPER

SPECIFICATIONS

Length of ram, 19"... width of ram, 5 1/8"... width of ram ways, 3 1/8"... cross-rail ways, 5 1/2" x 3 1/4" 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 1/8"... size of tool holder, 3 1/4" x 3 1/4"... tool head swivel, 360°... tool head diameter, 4"... length of cross rail, 13 1/2"... horizontal travel of table, 10 1/2"... vertical travel of table, 5 1/2"... distance, top of table to ram (maximum). 6"... working surface of table, 8" x 8"... the adjustable table support mounted on the base of the machine provides solid reinforcement... slots in table (3 on top and 3 on side), 1/16"... table depth, 7 1/2"... saddle bearing, 5 1/4"... feeds, .002", .004", .006", .008", .010 and .012"... a half turn of the feed handle in either direction reverses the feed... speeds, "Anyspeed," 35 to 180 strokes per minute... speed changes are effected instantly by simply turning the hand wheel control—no need to stop motor or shift belt... 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


SHAPER ACCESSORIES

INDEX CENTERS

No. 80199 5 inches between centers. 3-inch swing. Index plate with divisions between 22-30. Shipping wt., 16 lbs.

ROTARY TABLE

No. 80249 7" diameter work surface with 3 "T" slots. Shipping wt., 23 lbs.

ANGLE PLATE

No. 80275 For clamping irregular work to table. Size, 3" x 3" x 3". Ship. wt., 7 lbs.

SHAPER TOOL HOLDER


SHAPER EXTENSION TOOL HOLDER

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

KEYWAY TOOL HOLDERS


No. 80281 1/4" for Cutting Keyways and Slotting on Inside Work. Ship. wt., 1 lb.

BLANK CUTTER BITS

No. 560 Set of 6. Unground, measure 1/4 x 1/4 x 2'. Heat treated high speed steel. Shipping wt., 1 lb.

"T" HEAD BOLTS

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Ship. wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>80255</td>
<td>1&quot;</td>
<td>1/2 lb.</td>
</tr>
<tr>
<td>80260</td>
<td>3/4&quot;</td>
<td>3/4 lb.</td>
</tr>
<tr>
<td>80261</td>
<td>3/4&quot;</td>
<td>3 lb.</td>
</tr>
</tbody>
</table>
The proving ground for Logan Lathes has been in the factories and shops of American industry. Over a period of years the record made by Logan Lathes on the job has earned widespread acceptance and high regard for Logan products. Pride in these results, made possible by the coordinated effort of the entire Logan organization, is only natural. A continuing program of improvement in equipment, methods and design is under way to maintain the leading position of Logan products in their respective fields.

LOGAN ENGINEERING CO. CHICAGO 30, ILLINOIS

LOOK TO LOGAN FOR BETTER LATHES AND SHAPERS