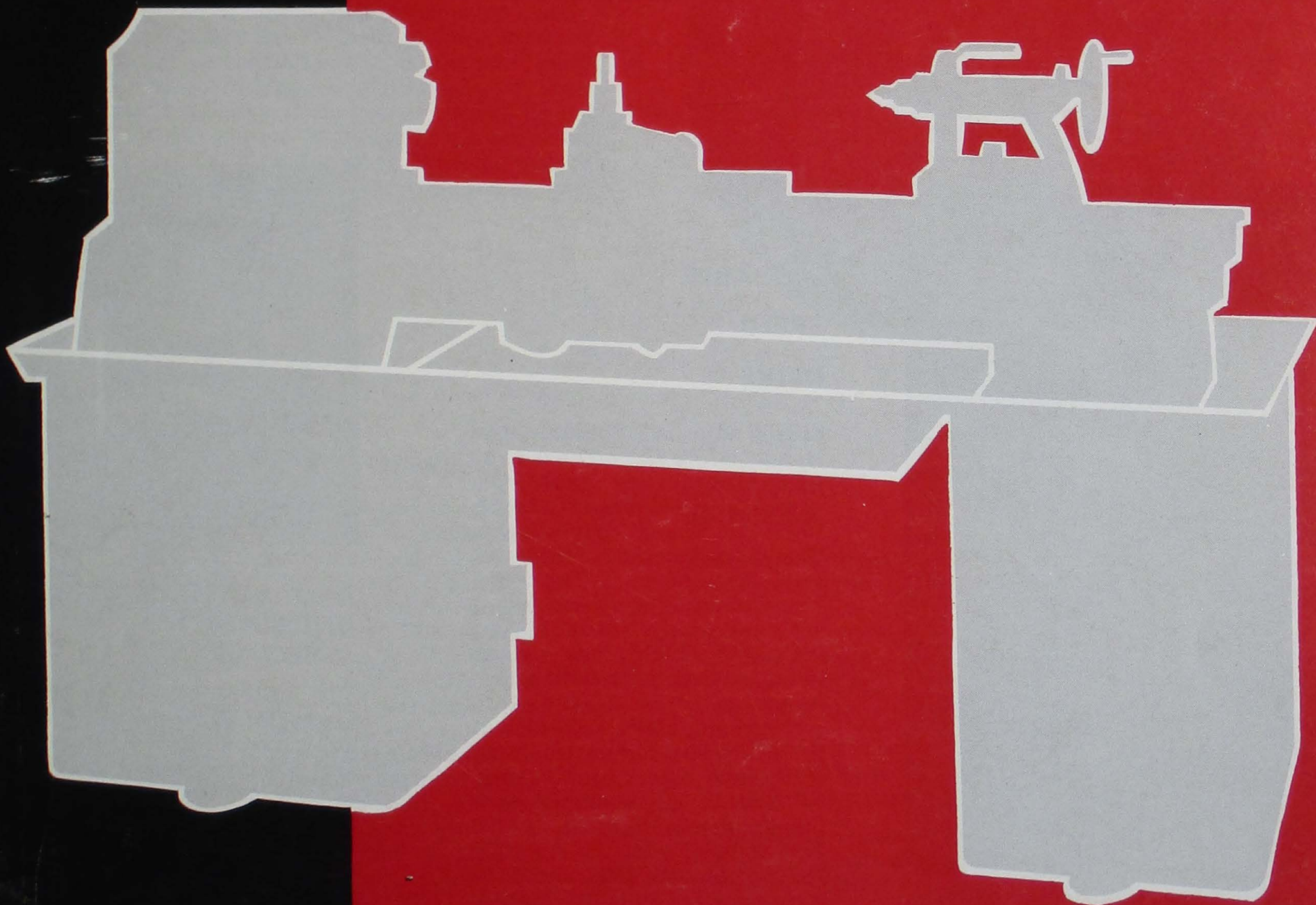


*Logan*

**LATHES**

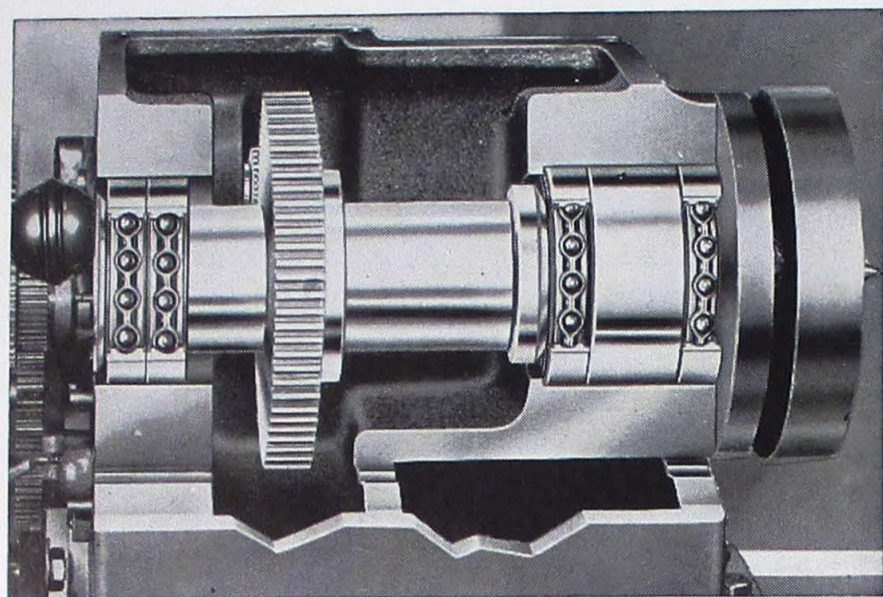
**TROLLEY**  
**PRECISION TOOL CO.**  
EMERSON 8-4184  
690 BROADWAY • REDWOOD CITY, CALIF. 94063

**ACCESSORIES**



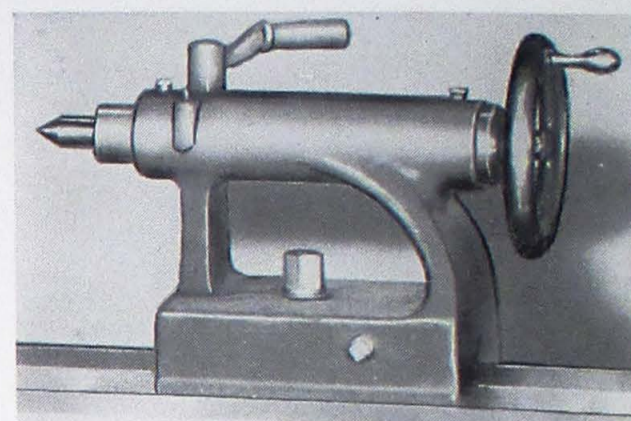
**LOGAN ENGINEERING CO. • 4901 W. LAWRENCE AVE. • CHICAGO, ILL. 60630**

# ADVANCED DESIGN . . . RUGGED CONSTRUCTION . . .



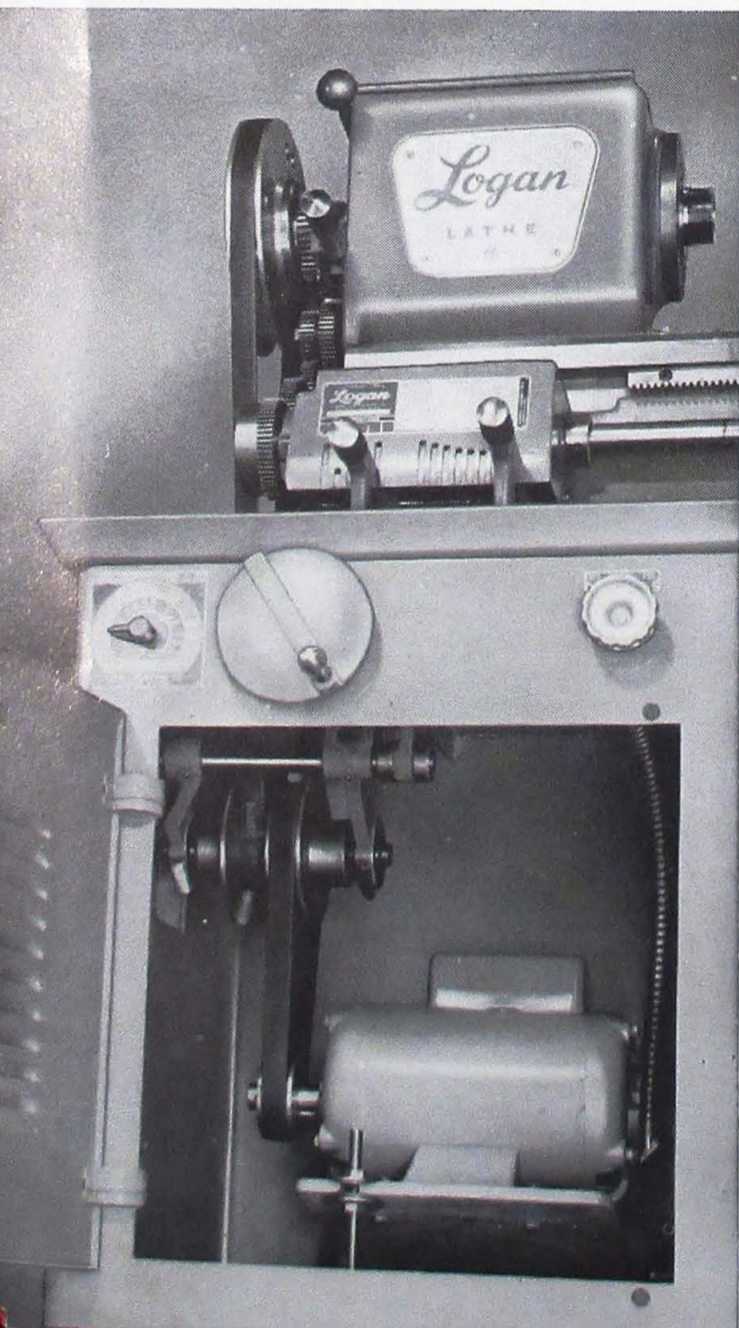
## BALL BEARING HEADSTOCK and SPINDLE

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  $1\frac{3}{8}$ " bore, and the ball bearing mounting that needs no adjustment for any standard rpm. Logan 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.



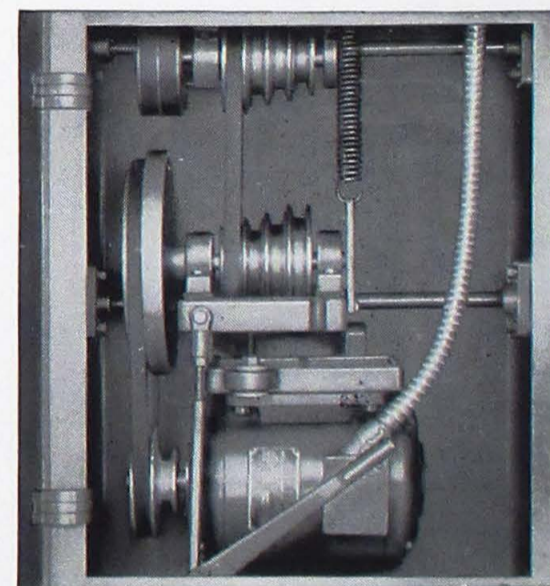
## RIGIDLY CONSTRUCTED TAILSTOCK

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  $5\frac{1}{2}$ " in graduations of  $\frac{1}{16}$ ". Set-over for taper turning is  $\frac{9}{16}$ ".



## VARIABLE SPEED DRIVE

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 55 to 300 R.P.M. and from 350 to 2000 R.P.M. Models 6565 and 6530 have speeds of 50 to 310 R.P.M. and 340 to 2000 R.P.M.



## BALL BEARING UNDERNEATH V-BELT DRIVE

The motor drive assembly of Logan 10" and 11" 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.

# ... SUSTAINED ACCURACY

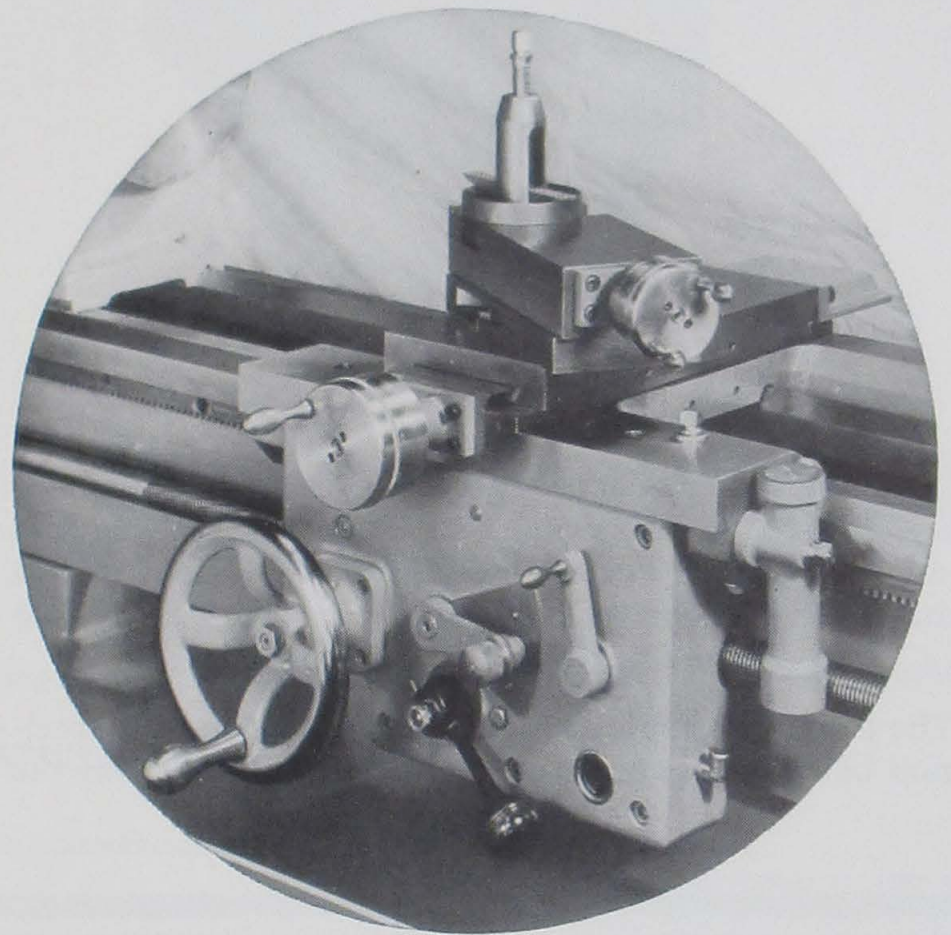


**RUGGED,  
ACCURATE  
BED**

The Logan 14" lathe bed illustrated here is 68" long and 10" wide, with high, strong walls braced by over-size 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.

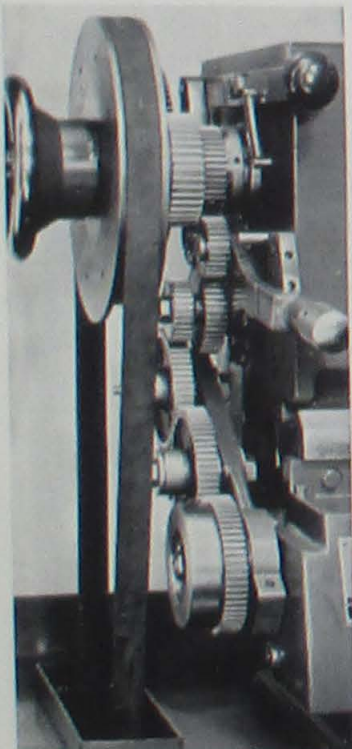
## PRECISION CARRIAGE

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

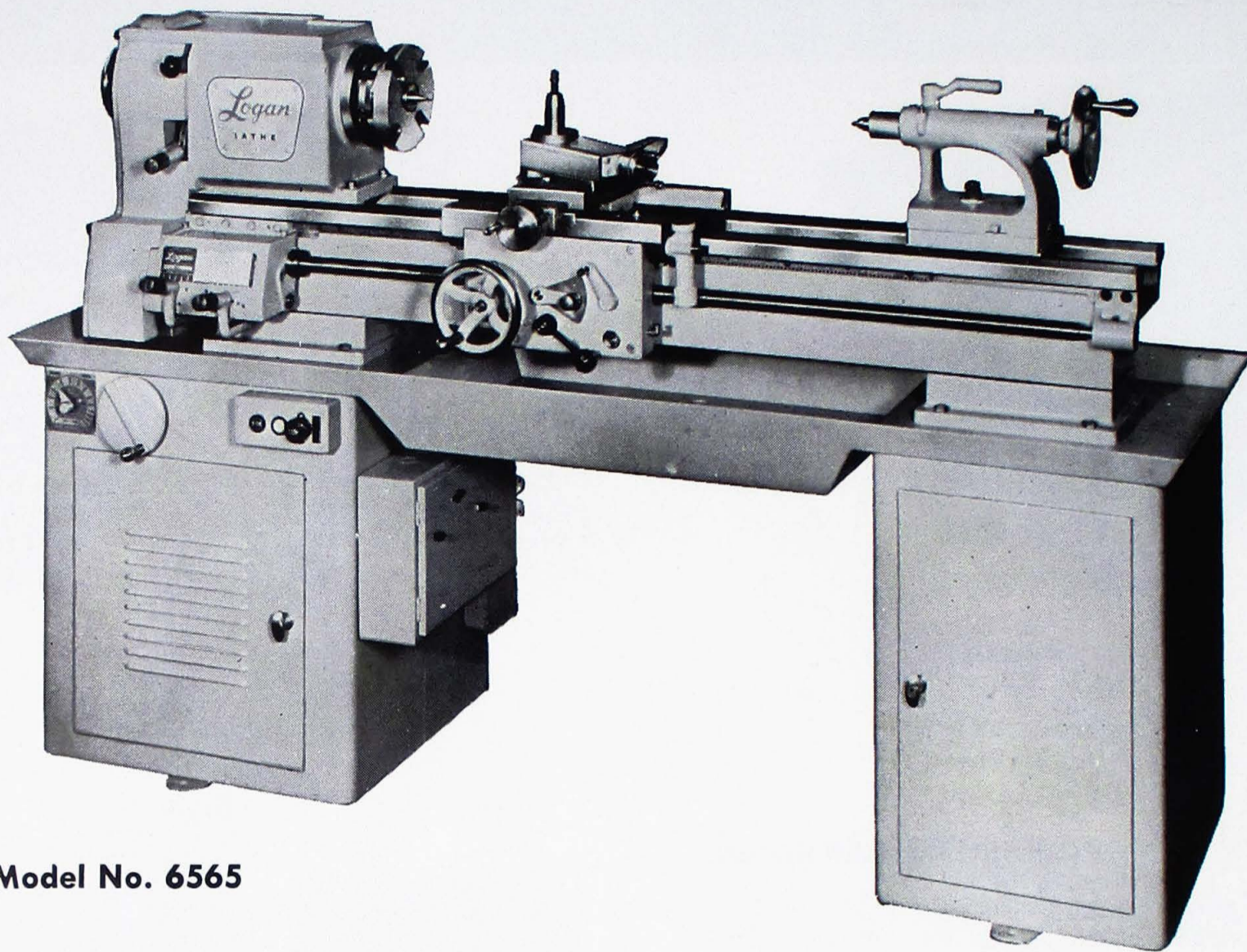
The Logan Cabinet Base Lathes, except the 14" x 28", have a drop center pan with extra chip capacity and provide storage space in the tail-stock pedestal.

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.





**Model No. 6565**

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 1 $\frac{5}{8}$ -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 . . . . . 14 $\frac{5}{8}$ "  
 Swing over cross slide . . . . . 9"  
 Between centers . . . . . 40"

#### THREADS AND FEEDS

Quick Change gear box and automatic apron.  
 Worm drive from lead screw spline for power feeds.  
 Longitudinal feed .0006" 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—1 $\frac{1}{8}$ -8

#### HEADSTOCK AND SPINDLE

Hole through spindle . . . . . 1 $\frac{5}{8}$ " clearance  
 Spindle bearings: Super Precision Ball Bearings  
 Heat-treated and ground steel spindle  
 Spindle nose . . . . . L-O  
 Variable speed drive: direct, 340 to 2000 rpm; back gears engaged, 50 to 310 rpm

#### CROSS SLIDE AND COMPOUND REST

Cross slide travel . . . . . 10"  
 Compound rest travel . . . . . 4"  
 Compound rest graduated 90° in both directions  
 Tool post opening for 1/2" x 1 $\frac{1}{8}$ " tool holder

#### BED

Width of bed across ways . . . . . 10"  
 Length of bed . . . . . 68"  
 Precision-ground ways, two prismatic V-ways and two flat ways  
Flame-Hardened Ways

#### TAILSTOCK

Spindle travel . . . . . 5 $\frac{1}{2}$ "  
 Spindle graduation . . . . . 1/16"  
 Morse taper center . . . . . #3  
 Tailstock set-over for taper turning . . . 9/16"

#### 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  
 Dinabrake or two-speed motor also available

#### DIMENSIONS

82" L—29" W—51" H

#### EQUIPMENT INCLUDED WITH LATHE

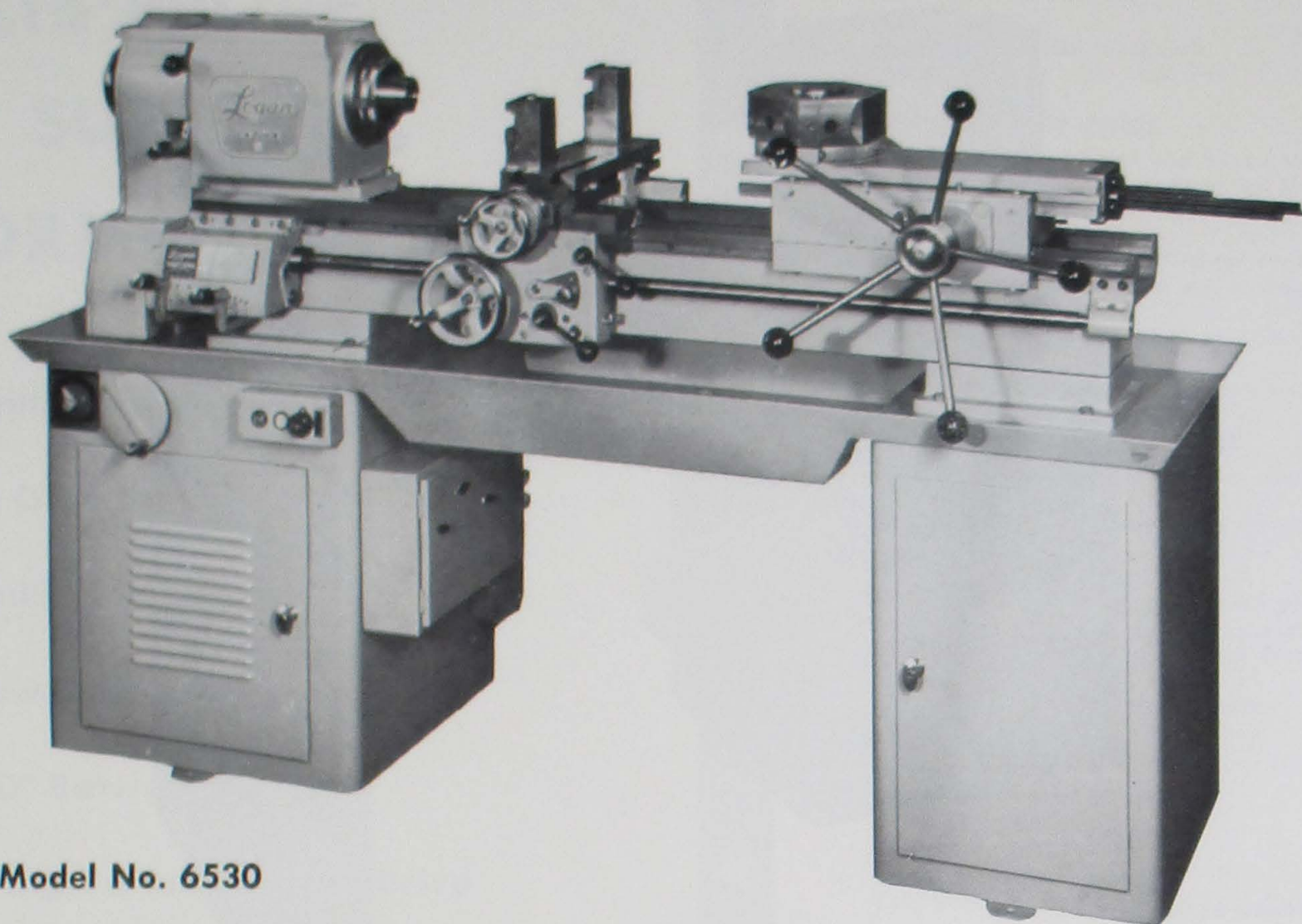
7 $\frac{1}{2}$ " drive plate, 2 No. 3 M.T. 60° centers, threading dial, threading chart, tool post and wrench, motor pulley, automatic safety gear, spindle adapter sleeve to No. 3 M.T., tailstock wrench, and necessary belts.

Shipping Weight . . . . . Approx. 1950 lbs.

#### IMPORTANT

If 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.

There will be a \$10 charge for installing a customer's motor provided it fits our motor mounting plate.



**Model No. 6530**

Extra heavy turret construction assures maximum smoothness and accuracy with this Logan lathe, which also embodies the basic engineering improvements found in the Logan 6565 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<sup>5</sup>/<sub>8</sub>"  
Swing over cross slide.....6<sup>7</sup>/<sub>8</sub>"

#### 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......0006" to .0350" per spindle revolution  
Cross feed...0.6 times (x) longitudinal feed

#### HEADSTOCK AND SPINDLE

Hole through spindle.....1<sup>5</sup>/<sub>8</sub>" clearance  
Spindle bearings: Super Precision Ball Bearings  
Heat-treated 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"

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<sup>8</sup>/<sub>8</sub>" x 2<sup>1</sup>/<sub>4</sub>"

#### BED

Width of bed across ways.....10"  
Length of bed.....68"  
Precision ground ways, two prismatic V-ways and two flat ways  
Flame-Hardened Ways

#### UNDERNEATH DRIVE

Ball Bearing Variable Speed

#### MOTOR AND CONTROLS

*(priced separately)*

3 ph., 2-speed, 3-1<sup>1</sup>/<sub>2</sub> hp—1800/900 rpm motor recommended  
Drum switch or reversing magnetic motor starter with pushbutton controls  
Dinabrake or single-speed motor also available

#### HEXAGON TURRET

Clearance, center of tool holes to top of turret cross slide.....2 9<sup>16</sup>/<sub>16</sub>"  
Turret head indexes and locks automatically  
Width of turret block across flats.....8<sup>1</sup>/<sub>2</sub>"  
Bolt holes in face: 7<sup>16</sup>/<sub>16</sub>"—14 tpi  
Turret block locked by cam operated locking ring  
Maximum travel at one setting.....9"  
Slide length.....24"  
Base length.....17"  
7<sup>8</sup>/<sub>8</sub>" machined holes can be bored up to 1<sup>1</sup>/<sub>2</sub>" diameter

#### OVERALL DIMENSIONS:

*lathe less accessories*

Length.....92"  
Width.....30"  
Height.....51"

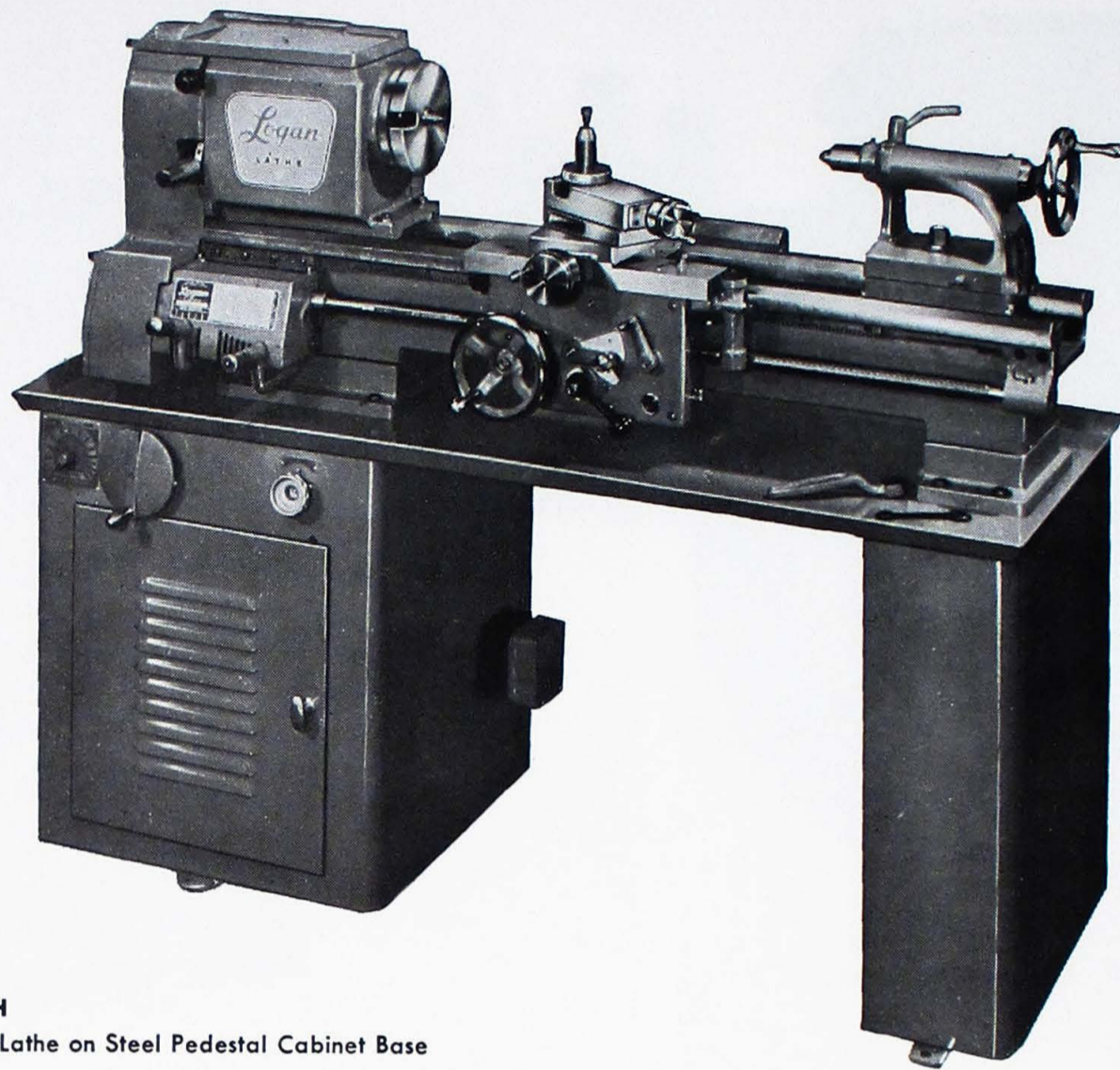
#### STANDARD EQUIPMENT

Turret Lathe, as illustrated, except for motor and controls which are priced separately. Includes finish bored hexagon turret up to 1<sup>1</sup>/<sub>2</sub>" diameter holes. Specify hole size when ordering. All necessary belts and wrenches.

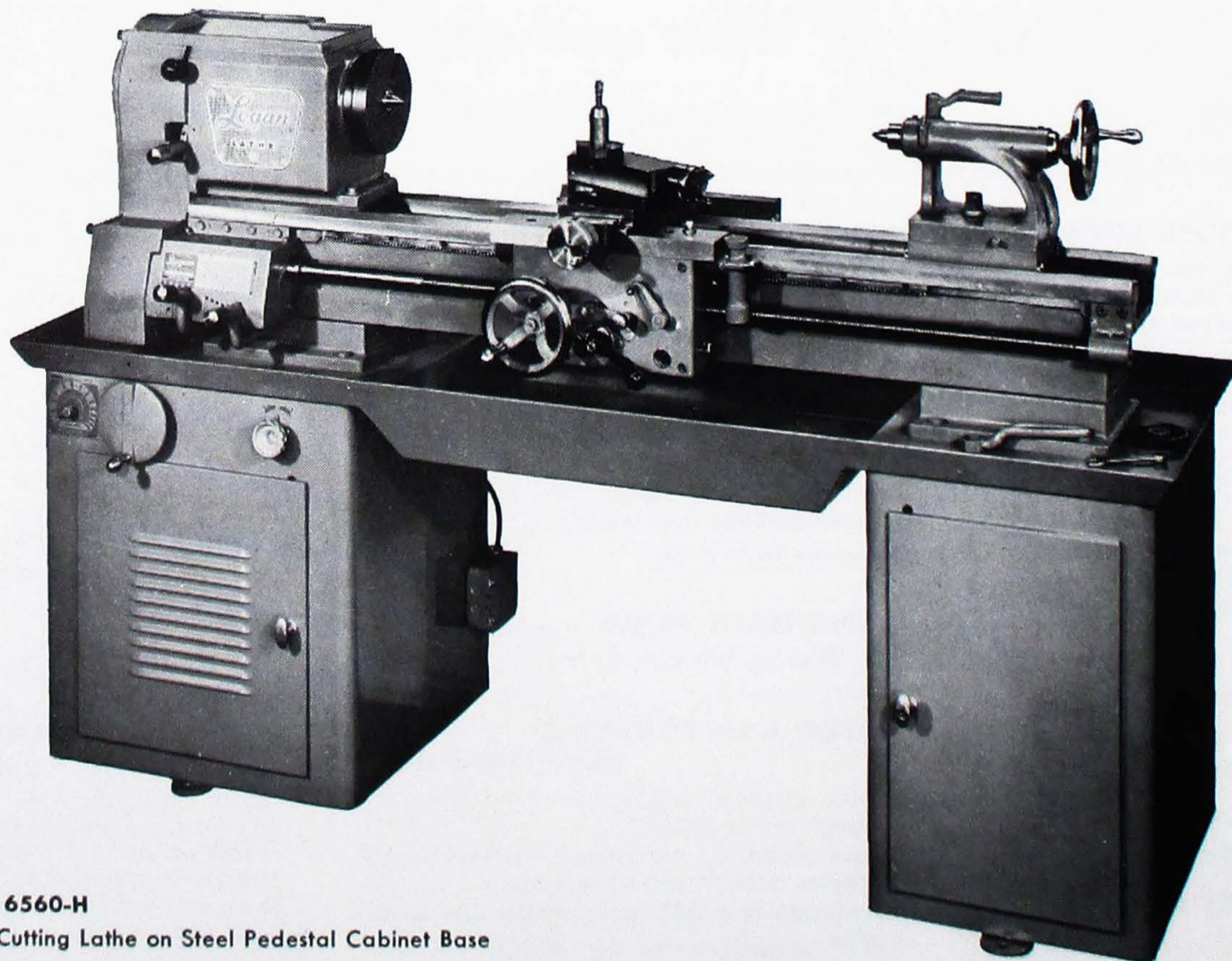
Shipping Weight.....Approx. 2200 lbs.

#### IMPORTANT

If 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.  
There will be a \$10 charge for installing a customer's motor provided it fits our motor mounting plate.



**Model 6510-H**  
Screw Cutting Lathe on Steel Pedestal Cabinet Base



**Model 6560-H**  
Screw Cutting Lathe on Steel Pedestal Cabinet Base

# RESULTS PROVE THEIR SUPERIOR PERFORMANCE

- 14<sup>5</sup>/<sub>8</sub>" Swing Over Bed
- 9" Swing Over Saddle
- 1<sup>3</sup>/<sub>8</sub>" Spindle Hole
- 1<sup>1</sup>/<sub>16</sub>" Draw-in Collet Capacity
- 28" or 40" Between Centers
- Ball Bearing Variable Speed Drive
- Precision Carriage
- Ball Bearing Spindle
- 55 to 2000 R.P.M.
- Two V-Way, Two Flat Way, Precision Ground Hardened Bed

## SCREW CUTTING LATHES

LATHE NO.		SHPG. WT. (LBS.)
6510-H	Q.C. Pedestal Base, 2 <sup>1</sup> / <sub>4</sub> "-8 Spindle, 28" Centers, Variable Speed Drive and Hardened Bed-Ways..	1625
6520-H	Q.C. Pedestal Base, L-00 Spindle, 28" Centers, Variable Speed Drive and Hardened Bed-Ways..	1625
6560-H	Q.C. Pedestal Cabinet Base, 2 <sup>1</sup> / <sub>4</sub> "-8 Spindle, 40" Centers, Variable Speed Drive and Hardened Bed-Ways.....	1850
6561-H	Q.C. Pedestal Cabinet Base, L-00 Spindle, 40" Centers, Variable Speed Drive and Hardened Bed-Ways.....	1850

No. 8081 Drop center chip pan for 6510-H and 6520-H lathes, factory installed in place of standard chip pan.

NOTE: Prices on application for School Models other than standard listed models.

## CAPACITY OF LATHE

Swing over bed.....14<sup>5</sup>/<sub>8</sub>"  
Swing over saddle cross slide.....9"  
Center distance..28" (6510-H).....40" (6560-H)

## THREADS AND FEEDS

Quick change gear box and automatic apron.  
Worm drive from lead screw spline for power feeds.  
Longitudinal feed .0006" 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—1<sup>1</sup>/<sub>8</sub>-8.

## HEADSTOCK AND SPINDLE

Spindle bearings: (4) sealed and shielded precision ball bearings.  
Heat-treated and ground steel spindle.  
Hole through spindle—1<sup>3</sup>/<sub>8</sub>".  
Draw in Collet Capacity—1<sup>1</sup>/<sub>16</sub>".  
Spindle nose diameter and threads per inch—2<sup>1</sup>/<sub>4</sub>-8.  
Variable speed drive—Spindle speeds: Direct Drive—350 to 2000 rpm; with Back Gears Engaged—55 to 300 rpm.  
Spindle nose adapter to #3 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 1<sup>1</sup>/<sub>2</sub>" x 1<sup>1</sup>/<sub>8</sub>" tool holder.

## BED

Width of bed across ways.....10"  
Length of bed.....56" (6510-H).....68" (6560-H)  
Precision ground ways, two prismatic V-Ways and two flat ways.

## TAILSTOCK

Spindle travel.....5<sup>1</sup>/<sub>2</sub>"  
Spindle graduation.....1<sup>1</sup>/<sub>16</sub>"  
Morse taper center.....#3  
Tailstock set-over from taper turning.....9<sup>9</sup>/<sub>16</sub>"

## 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

1—Drive plate } 7<sup>1</sup>/<sub>2</sub>" for 2<sup>1</sup>/<sub>4</sub>"—8 spindle  
                  } 7" for L-00 spindle  
2—No. 3 M.T. 60° centers.  
1—Threading dial. 1—Threading chart.  
1—Tool post and wrench. 1—Motor pulley.  
1—Automatic Safety Gear.  
1—Drum reversing switch.  
1—Spindle adapter sleeve to No. 3 M.T.  
1—Tailstock Wrench.  
Necessary Belts

## OVERALL DIMENSIONS

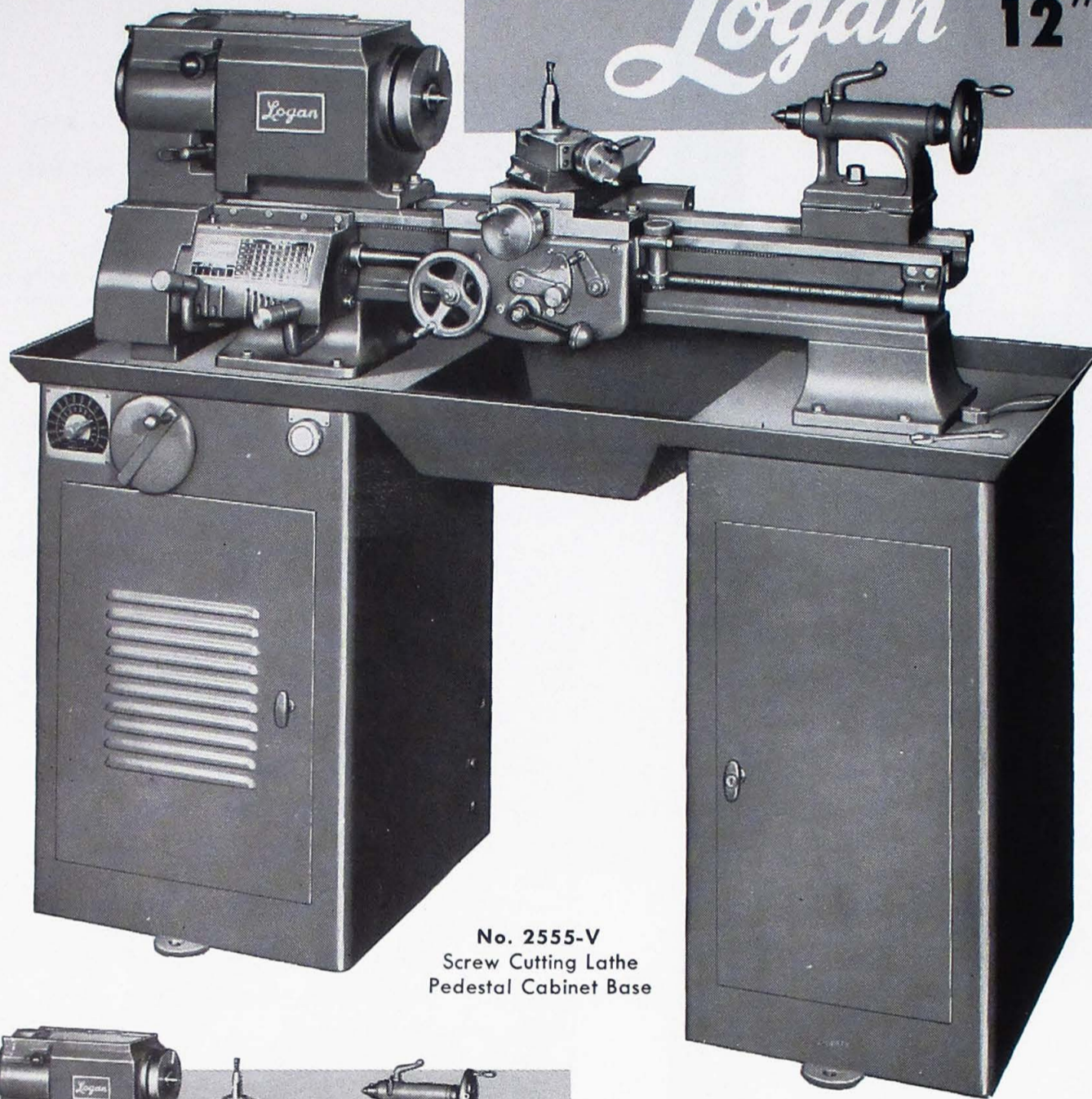
6510-H.....66<sup>1</sup>/<sub>2</sub>" L, 27" W, 51" H  
6560-H.....83" L, 27" W, 51" H

### 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 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.

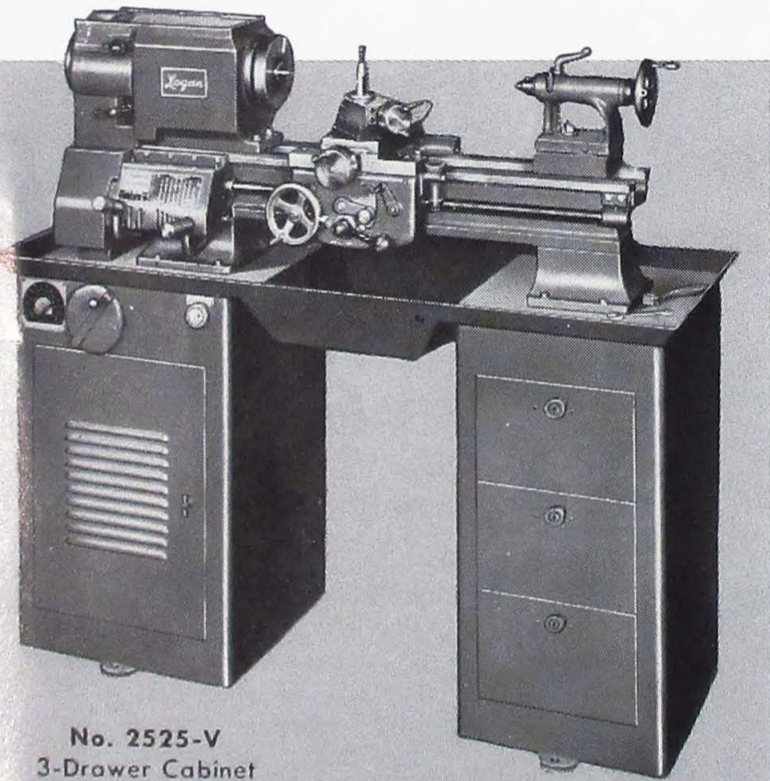
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# Logan 12" SWING LATHES



No. 2555-V  
Screw Cutting Lathe  
Pedestal Cabinet Base

- 1 1/16" COLLET CAPACITY
- 1 3/8" SPINDLE BORE
- 23" and 35" CENTERS
- VARIABLE SPEED DRIVE
- FLAME HARDENED BED  
AT SMALL EXTRA COST



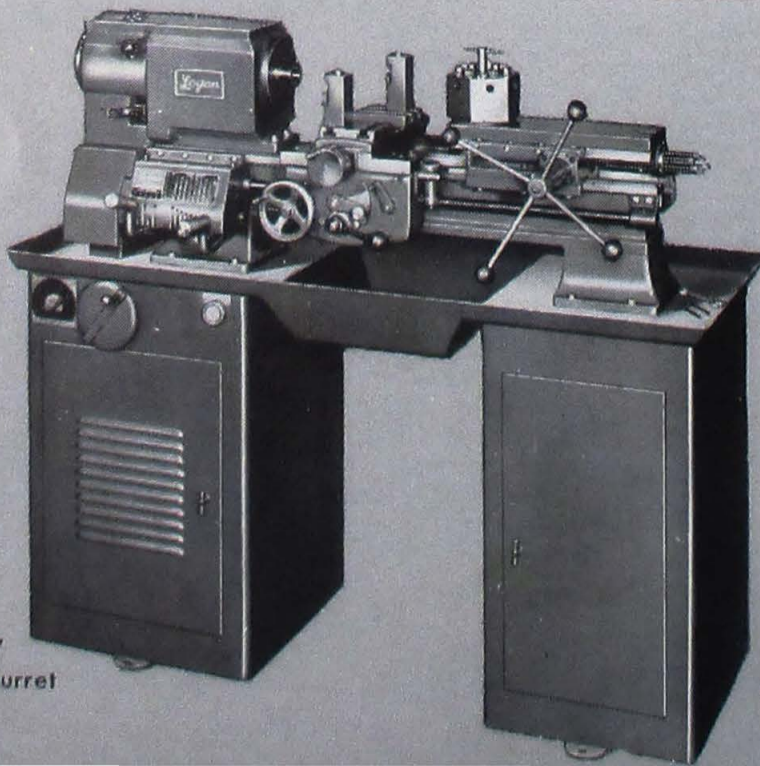
No. 2525-V  
3-Drawer Cabinet  
Screw Cutting Lathe.

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 7/8" 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.

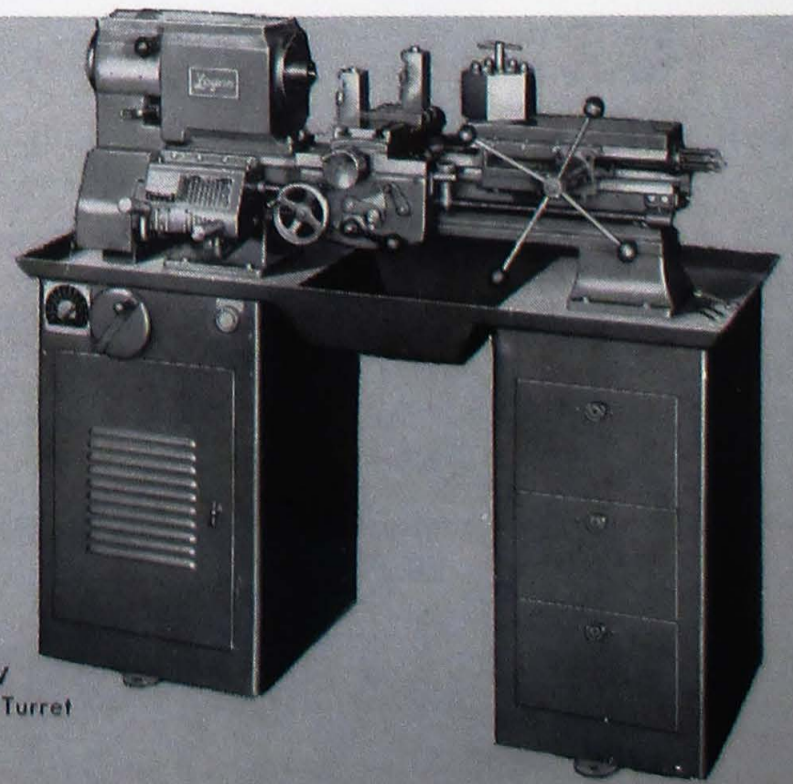
Compact all steel cabinet bases provide a clean-cut appearance and save floor space. Three compartments or three drawers inside each cabinet store and protect tools and work.

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.



No. 2535-2-V  
Pedestal Cabinet Turret  
Lathe.



No. 2545-2-V  
3-Drawer Cabinet Turret  
Lathe.



**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 - 7/8"-8

**HEADSTOCK AND SPINDLE**

Spindle Bearings: (4) Sealed, Precision Ball Bearings  
 Heat-treated and ground steel spindle  
 Hole through Spindle: 1 3/8"  
 Draw-in Collet Capacity, 1 1/16"  
 Spindle Nose diameter and threads per inch: 2 1/4"-8  
 Drive Plate Diameter: 6"  
 Spindle Nose Adapter to #2 Morse  
 Variable speed drive—Spindle speeds: Direct drive—  
 350 to 2000 R.P.M.; with back gears engaged—  
 55 to 300 R.P.M.

**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: 3/8" x 3/4"

**CROSS SLIDE, TURRET LATHE**

Cross slide travel: 6 5/8"  
 Cross slide graduated in thousandths  
 Cross feed screw mounted on self lubricating bronze bearings  
 Adjustable double tool post with adjustable wedges  
 Tool post openings: 1/16" x 1 9/16"

**BED**

Width of bed across ways: 6 15/16"  
 Length of bed ..... 43 1/8" and 55 1/8"  
 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"

**PILOT WHEEL TURRET**

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

**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 } 6" for 2 1/4" - 8 spindle
- } 7" for L-00 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**

Centers	Bed Length	Overall Length	Width	Height
23"	43"	59"	22"	49"
35"	55"	70 1/2"	22"	49"

**SCREW CUTTING LATHES**

Lathe No.		Ship Wt. (lbs.)
2525-V	Quick Change, 3-Drawer Cabinet Model, 23" Centers, Variable Speed Drive	1040
2527-V	Quick Change, 3-Drawer Cabinet Model, 35" Centers, Variable Speed Drive	1090
2555-V	Quick Change, Pedestal Cabinet Model, 23" Centers, Variable Speed Drive	1015
2557-V	Quick Change, Pedestal Cabinet Model, 35" Centers, Variable Speed Drive	1075

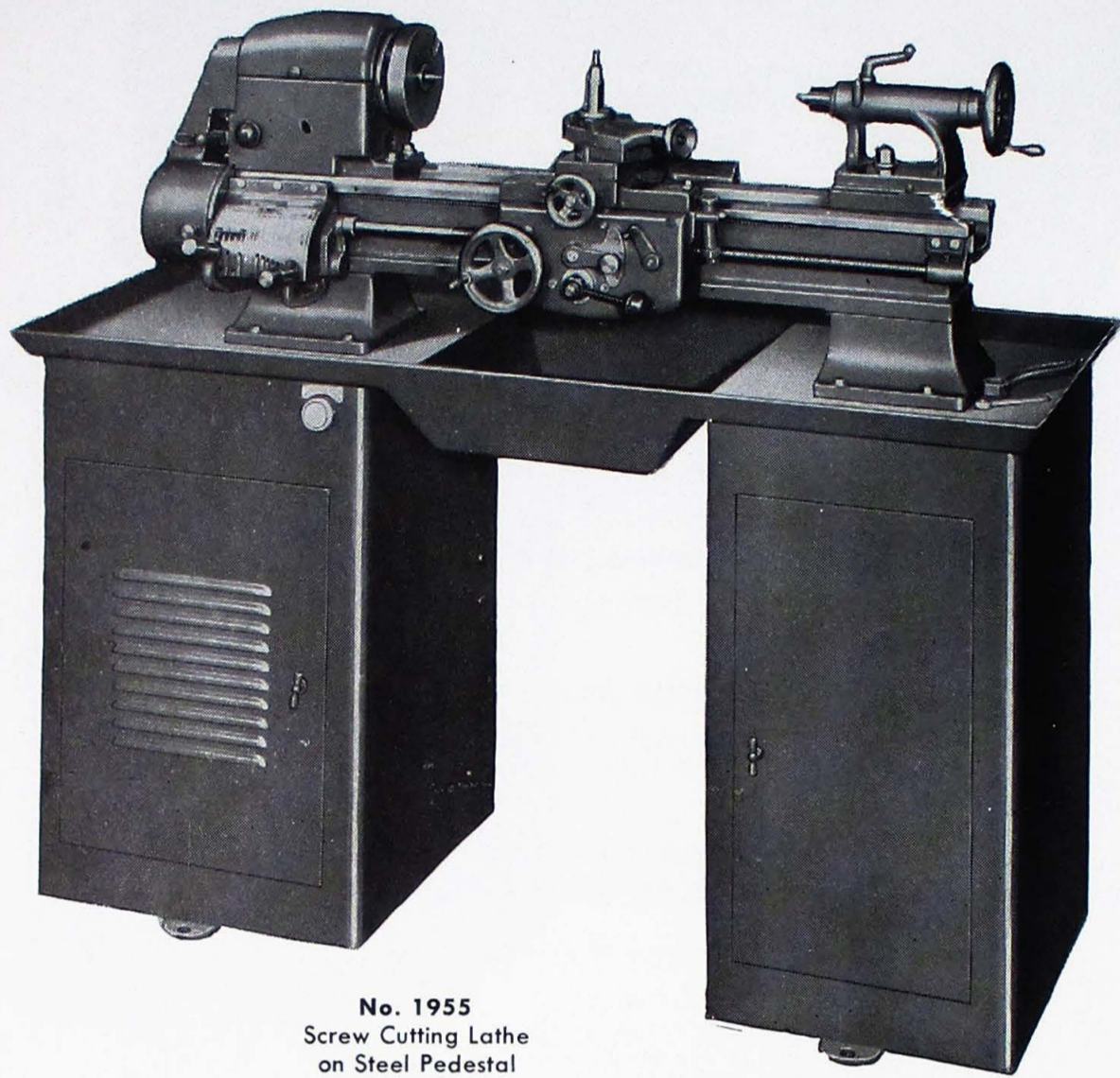
**TURRET LATHES**

2535-2-V	Quick Change, Pedestal Cabinet Model, 43" Bed, Pilot Wheel Turret, Variable Speed Drive	1180
2537-2-V	Quick Change, Pedestal Cabinet Model, 55" Bed, Pilot Wheel Turret, Variable Speed Drive	1240
2545-2-V	Quick Change, 3-Drawer Cabinet Model, 43" Bed, Pilot Wheel Turret, Variable Speed Drive	1200
2547-2-V	Quick Change, 3-Drawer Cabinet Model, 55" Bed, Pilot Wheel Turret, Variable Speed Drive	1250

**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.

There will be a \$10 charge for installing a customer's motor provided it fits our motor mounting plate.



**No. 1955**  
Screw Cutting Lathe  
on Steel Pedestal  
Cabinet Base

# Logan

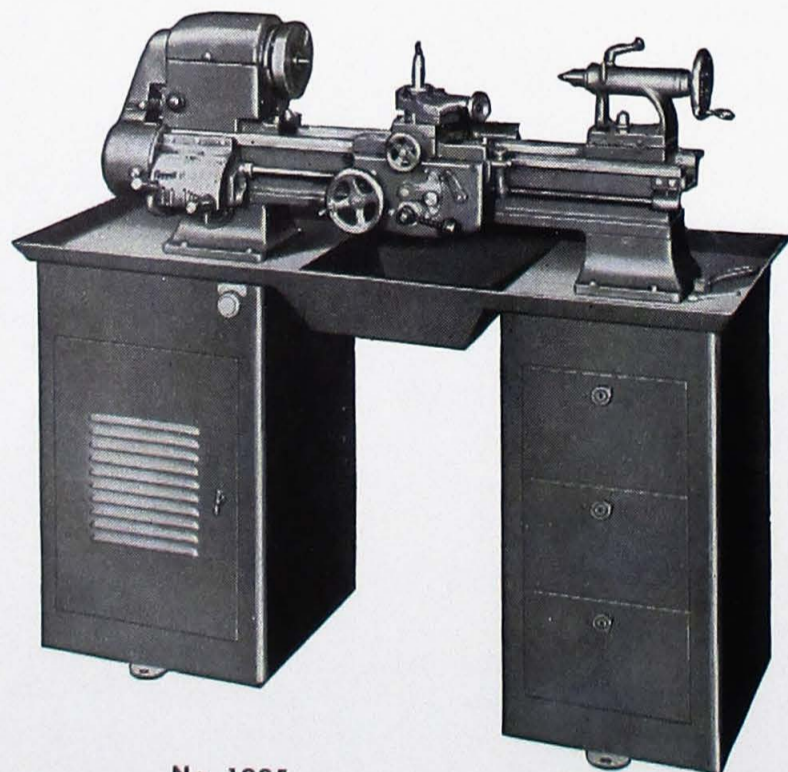
## 11" SWING LATHES

- 1 1/16" COLLET CAPACITY
- 1 3/8" SPINDLE BORE
- 24" and 36" CENTERS
- 16-SPEED V-BELT DRIVE

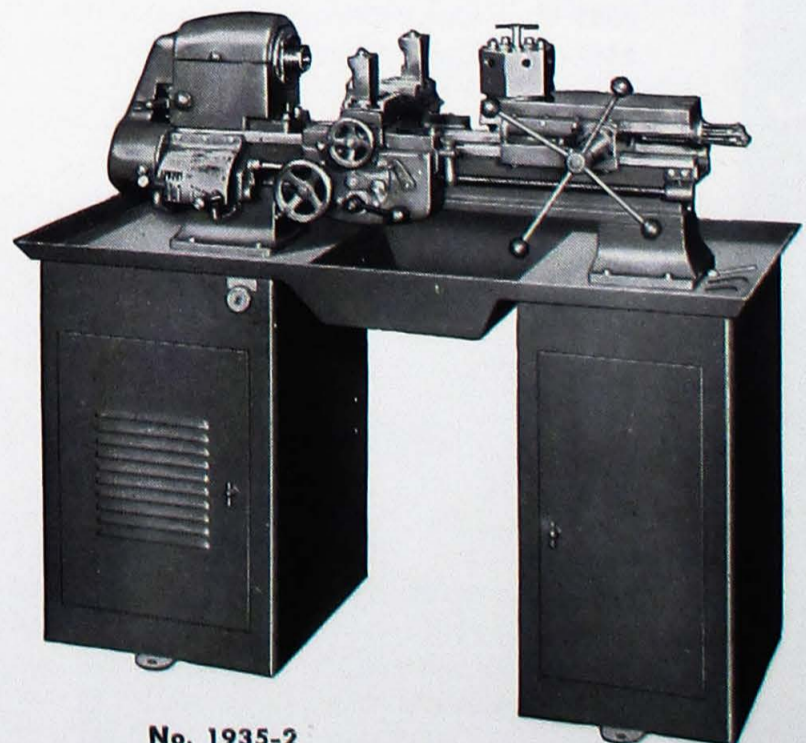
These 11" swing Logans have the ruggedness and sustained accuracy to fill a definite need in both industrial and school shops. The advanced design features include a ball bearing spindle that needs no adjustment for any speed within its wide range. The Automatic Apron with lever-operated, disc type clutch 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.



**No. 1925**  
on 3-Drawer Cabinet Base



**No. 1935-2**  
on Pedestal Cabinet Base

**CAPACITY OF LATHE**

- Swing over bed.....11 1/8"
- Swing over saddle cross slide, screw cutting lathes...6 1/8"
- Swing over saddle cross slide, turret lathes.....4 1/2"

**THREADS AND FEEDS**

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

**BED**

- Width of bed across way.....6 15/16"
- Length.....43 1/8" and 55 1/8"
- Precision ground ways; 2 prismatic "V" ways and 2 flat ways

**HEADSTOCK AND SPINDLE**

- Spindle Bearings: Sealed Ball Bearings, precision type with preloading
- Heat-treated and ground steel spindle
- Hole through spindle - 1 3/8"
- Draw-in collet capacity.....1 1/16"
- Spindle Nose Diameter and threads per inch: 2 1/4"-8
- Width of face of bull gear and back gears: 3/4"
- Drive plate diameter: 6"
- 16 Spindle Speeds
  - direct drive: - 230, 315, 410, 560, 600, 820, 1070 and 1450 rpm.
  - back gears: - 40, 50, 65, 95, 100, 135, 180 and 240 rpm.

**CROSS SLIDE AND COMPOUND REST, SCREW CUTTING LATHE**

- Cross Slide Travel 6 1/4"
- Cross Slide graduated in thousandths
- Cross feed screw mounted on self lubricating bronze bearings
- Compound Rest Travel 2 1/4"
- Compound rest graduated in thousandths
- Compound swivel graduated 90° in both directions
- Tool post opening for tool holder shank 3/8" x 3/4"

**CROSS SLIDE, TURRET LATHE**

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

**TAILSTOCK**

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

**PILOT WHEEL TURRET**

- Distance across flats 5 1/4"
- Six position, self indexing with adjustable stops
- Turret holes, diameter 5/8" regular - 3/4" on special order
- Turret holes bored from headstock of lathe
- Maximum stroke of turret - 7 3/4"

**UNDERNEATH DRIVE**

- Two step motor pulley to countershaft drive, B section V-belt, Belt size, 40" x 5/8"
- Four step countershaft to jackshaft drive, B section V-belt, Belt size, 30" x 5/8"
- Double V-belt drive, Jackshaft to spindle, A section V-Belts, Belt sizes, 49" x 1/2"
- Jackshaft and countershaft mounting - Ball Bearing

**MOTOR**

- 3/4 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           | 1 Spindle Nose Taper Adaptor |
| 2 60° Centers           | No. 2 M.T.                   |
| 1 Threading Dial        | 1 Tailstock Wrench           |
| 1 Threading Chart       | 1 Tool Post and Wrench       |
| 1 Drum Reversing Switch | 1 Motor Pulley               |
| 1 Automatic Safety Gear | Parts List and Instruction   |
| Necessary Belts         | Book                         |

**DIMENSIONS**

Centers	Bed Length	Overall Length	Width	Height
<b>Cabinet Models</b>				
24"	43"	59"	21"	48 3/4"
36"	55"	70 1/2"	21"	48 3/4"

**SCREW CUTTING LATHES**

Lathe No.		Ship. Wt. (Lbs.)
1925	Quick Change, 3-Drawer Cabinet Model, 24" Centers, V-Belt Drive.....	870
1927	Quick Change, 3-Drawer Cabinet Model, 36" Centers, V-Belt Drive.....	915
1955	Quick Change, Pedestal Cabinet Model, 24" Centers, V-Belt Drive.....	840
1957	Quick Change, Pedestal Cabinet Model, 36" Centers, V-Belt Drive.....	890
1975	Same as 1955 except with L00 Spindle and 22" centers.....	850
1977	Same as 1957 except with L00 Spindle and 34" centers.....	900
1985	Same as 1925 except with L00 Spindle and 22" centers.....	880
1987	Same as 1927 except with L00 Spindle and 34" centers.....	925

**TURRET LATHES**

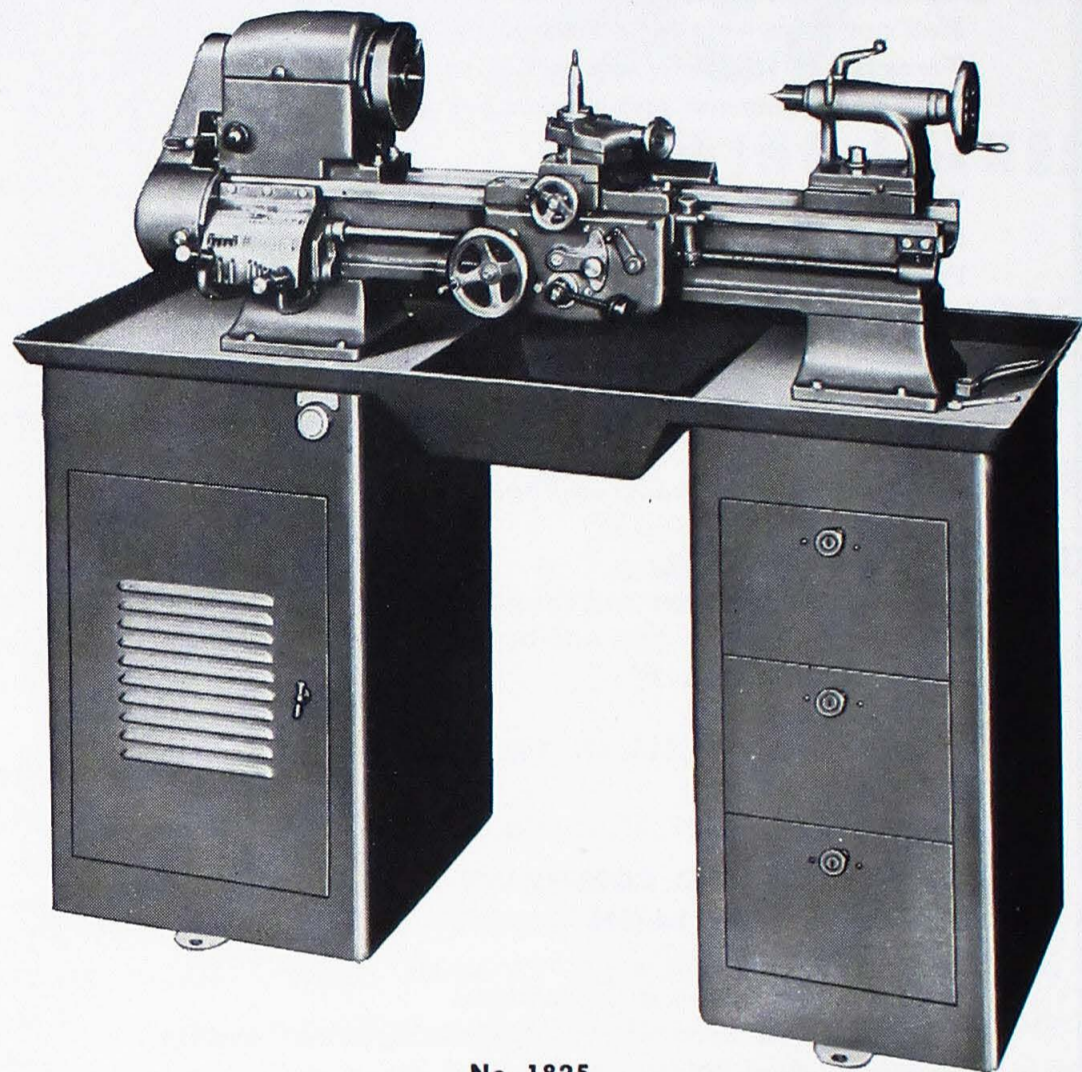
1935-2	Quick Change, Pedestal Cabinet Model, 43" Bed, Pilot Wheel Turret, V-Belt Drive.....	905
1937-2	Quick Change, Pedestal Cabinet Model, 55" Bed, Pilot Wheel Turret, V-Belt Drive.....	955
1945-2	Quick Change, 3-Drawer Cabinet Model, 43" Bed, Pilot Wheel Turret, V-Belt Drive.....	930
1947-2	Quick Change, 3-Drawer Cabinet Model, 55" Bed, Pilot Wheel Turret, V-Belt Drive.....	980

**NOTE:** 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.

There will be a \$10 charge for installing a customer's motor provided it fits our motor mounting plate.

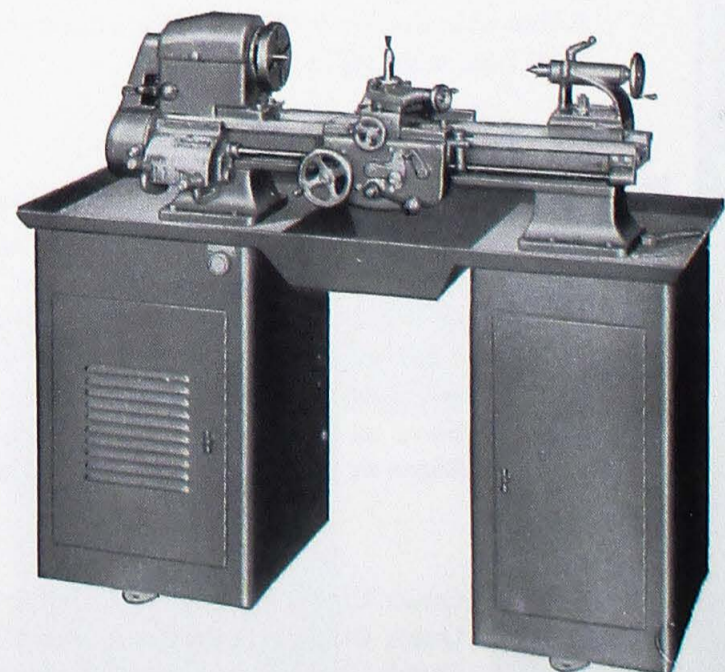
# *Logan* 10" SWING LATHES

- 1/2" COLLET CAPACITY
- 25/32" SPINDLE BORE
- 24" CENTERS



**No. 1825**  
Screw Cutting Lathe on  
3-Drawer Cabinet Base

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.



**No. 1875**  
Screw Cutting Lathe  
on Pedestal Cabinet Base

**CAPACITY OF LATHE**

- Swing over bed.....10 $\frac{1}{2}$ "
- Swing over saddle cross slide—screw cutting lathes...6 $\frac{1}{8}$ "
- Distance between centers.....24"
- Swing over saddle cross slide, turret lathe.....4 $\frac{1}{2}$ "

**THREADS AND FEEDS**

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

**BED**

- Width of bed across ways.....6 $\frac{5}{16}$ "
- Bed Length.....43 $\frac{1}{8}$ "
- 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.....2 $\frac{5}{32}$ "
- Draw-in collet capacity.....1 $\frac{1}{2}$ "
- Drive plate diameter.....6"
- Morse Taper with adaptor, No. 3—No. 2
- Size of centers used, Morse Taper No. 2
- Spindle nose diameter and threads per in. 1 $\frac{1}{2}$ "-8
- Number of spindle speeds.....16
- Spindle Speeds—direct drive:—230, 315, 410, 560, 600, 820, 1070 and 1450 rpm.
- back gear drive:—40, 50, 65, 95, 100, 135, 180 and 240 rpm.

**CROSS SLIDE AND COMPOUND REST, SCREW CUTTING LATHE**

- Cross slide graduated in thousandths—Travel.....6 $\frac{1}{4}$ "
- Compound rest top slide graduated in thousandths—Travel.....2 $\frac{1}{4}$ "
- Compound rest swivel—graduated 90° in both directions
- Tool post opening for tool holder..... $\frac{3}{8}$  x  $\frac{3}{4}$ "

**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:  $\frac{7}{16}$ " x 1 $\frac{9}{16}$ "

**TAILSTOCK**

- Spindle travel.....2 $\frac{3}{8}$ "
- Spindle graduations..... $\frac{1}{16}$ "
- Morse Taper center.....No. 2
- Tailstock set over for taper turning.....1 $\frac{1}{16}$ "

**PILOT WHEEL TURRET**

- Distance across flats: 5 $\frac{1}{4}$ "
- Six position, self indexing with adjustable stops
- Turret holes, diameter  $\frac{5}{8}$ " regular— $\frac{3}{4}$ " on special order
- Turret holes bored from headstock of lathe
- Maximum stroke of turret—7 $\frac{3}{4}$ "

**UNDERNEATH DRIVE**

- Two step motor pulley to countershaft drive.
- B Section V-belt, Belt size, 40" x  $\frac{5}{8}$ "
- Four step countershaft to jackshaft drive.
- B section V-belt, Belt size, 30 x  $\frac{5}{8}$ "
- Double V-belt drive, Jackshaft to spindle.
- A section V-belts, Belt sizes, 49" x  $\frac{1}{2}$ "
- Jackshaft and countershaft mounting—Ball bearing

**MOTOR**

Use  $\frac{1}{2}$  H.P. 1725 R.P.M. motor

**EQUIPMENT WITH SCREW CUTTING LATHES**

- |                         |                                   |
|-------------------------|-----------------------------------|
| 1 6" Drive Plate        | 1 No. 3—No. 2 Morse Taper Adaptor |
| 2 60° Centers           | 1 Tool Post and Wrench            |
| 1 Threading Dial        | 1 Tailstock Wrench                |
| 1 Threading Chart       | 1 Motor Pulley                    |
| 1 Drum Reversing Switch | Parts List and Instruction Book   |
| 1 Automatic Safety Gear |                                   |
| Necessary Belts         |                                   |

**OVERALL DIMENSIONS**

	Overall Length	Width	Height
Model 1825, 1835-2, 1845-2, 1875	59"	20 $\frac{1}{2}$ "	48"

Lathe No.	SCREW CUTTING LATHES	Ship. Wt. (Lbs)
1825	Quick Change, 3-Drawer Cabinet Model, 24" Centers, V-Belt Drive.....	790
1875	Quick Change, Pedestal Cabinet Model, 24" Centers, V-Belt Drive.....	765

**TURRET LATHES**

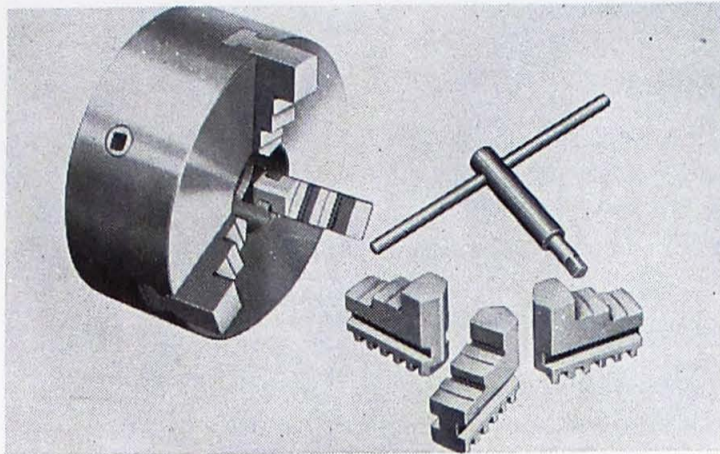
1835-2	Quick Change, Pedestal Cabinet Model, 43" Bed, Pilot Wheel Turret, V-Belt Drive.....	830
1845-2	Quick Change, 3-Drawer Cabinet Model, 43" Bed, Pilot Wheel Turret, V-Belt Drive.....	855

NOTE: 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.

There will be a \$10 charge for installing a customer's motor provided it fits our motor mounting plate.

# CHUCKS AND ACCESSORIES

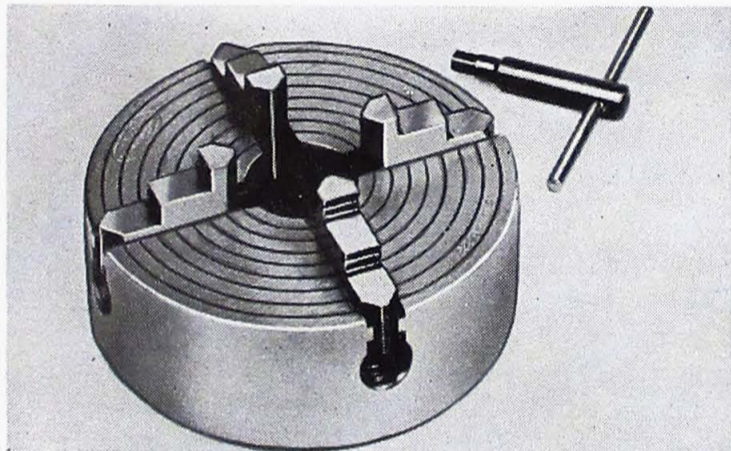
## 3-JAW UNIVERSAL CHUCKS



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.

Cat. No.	Chuck Size	Fitted for Spindle	Logan Lathe Size	Ship. Wt. Lbs.
536	5" Med. Duty	1 1/2"-8 thd.	9"-10"	10
531	5" Hvy. Duty	1 1/2"-8 thd.	9"-10"	12
1063/AC-108	6" Hvy. Duty	1 1/2"-8 thd.	9"-10"	22
1063/AC-105	6" Hvy. Duty	2 1/4"-8 thd.	11"-12"-14"	23
1063/2300	6" Hvy. Duty	L-00	11"-12"-14"	23

## 4-JAW INDEPENDENT CHUCKS



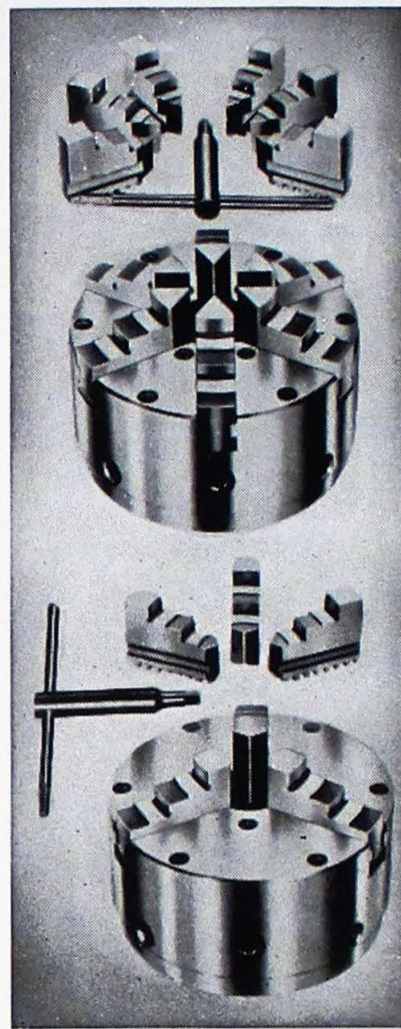
Jaws are independently adjusted and are reversible. The body of No. 444 Chuck is threaded. All other independent chucks are furnished with threaded back plates fitted for the lathe spindle.

Cat. No.	Chuck Size	Fitted for Spindle	Logan Lathe Size	Ship. Wt. Lbs.
444	6" Med. Duty	1 1/2"-8 thd.	9"-10"	13
1306/AC-126	6" Hvy. Duty	1 1/2"-8 thd.	9"-10"	20
1306/AC-117	6" Hvy. Duty	2 1/4"-8 thd.	11"-12"-14"	21
1306/2303	6" Hvy. Duty	L-00	11"-12"-14"	21
1284/AC-117	8" Hvy. Duty	2 1/4"-8 thd.	11"-12"-14"	27
1284/2303	8" Hvy. Duty	L-00	11"-12"-14"	27
1308-LO	8" Hvy. Duty	L-0	14"	38
1310/6313	10"	2 1/4"-8 thd.	14"	70
1310/2306	10"	L-00	14"	70
1310/6836	10"	L-0	14"	70

## 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.



## 6-JAW BUCK AJUST-TRU CHUCKS

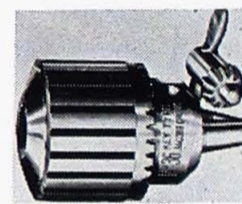
The 6-jaw Buck chuck replaces both collets and step collets. Spindle hole capacity from 1/8" to 1 1/2" and step jaw capacity from 1/8" to 5". All told this single chuck handles the work of 93 collets. Accuracy and speed of operation is the same as for the 3-jaw Ajust-tru chucks.

Cat. No.	Chuck Size	Fitted for Spindle	Logan Lathe Size	Ship. Wt. Lbs.
3662/AC-113	6"	1 1/2"-8 thd.	9"-10"	36
3662/AC-114	6"	2 1/4"-8 thd.	11"-12"-14"	36
3662/2305	6"	L-00	11"-12"-14"	36

## 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 chucked to .0005" 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.

Cat. No.	Chuck Size	Fitted for Spindle	Logan Lathe Size	Ship. Wt. Lbs.
3634/AC-113	6"	1 1/2"-8 thd.	9"-10"	35
3634/AC-114	6"	2 1/4"-8 thd.	11"-12"-14"	35
3634/2305	6"	L-00	11"-12"-14"	35
4733/6385	7 1/2"	2 1/4"-8 thd.	11"-12"-14"	44
4733/2301	7 1/2"	L-00	12"-14"	44
4733/6833	7 1/2"	L-0	14"	44
6309/6311	9"	2 1/4"-8 thd.	14"	88
6309/2302	9"	L-00	14"	88
6309/6834	9"	L-0	14"	88



## JACOBS DRILL CHUCKS

No. 451 0-1/2" cap. Requires No. 447 or 445 Arbor. Ship. wt. 2 1/2 lbs.

No. 452 3/16"-3/4" cap. Requires No. 448 or 446 Arbor. Ship. wt. 3 1/2 lbs.



## JACOBS HEADSTOCK CHUCKS

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

No. 454 3/16"-3/4" capacity. For 1 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.



## CHUCK ARBORS

No. 445 No. 3 M.T. for No. 451 Jacobs Chuck. Shipping wt. 1 lb.

No. 446 No. 3 M.T. for No. 452 and 455 Jacobs Chucks. Ship. wt. 1 lb.

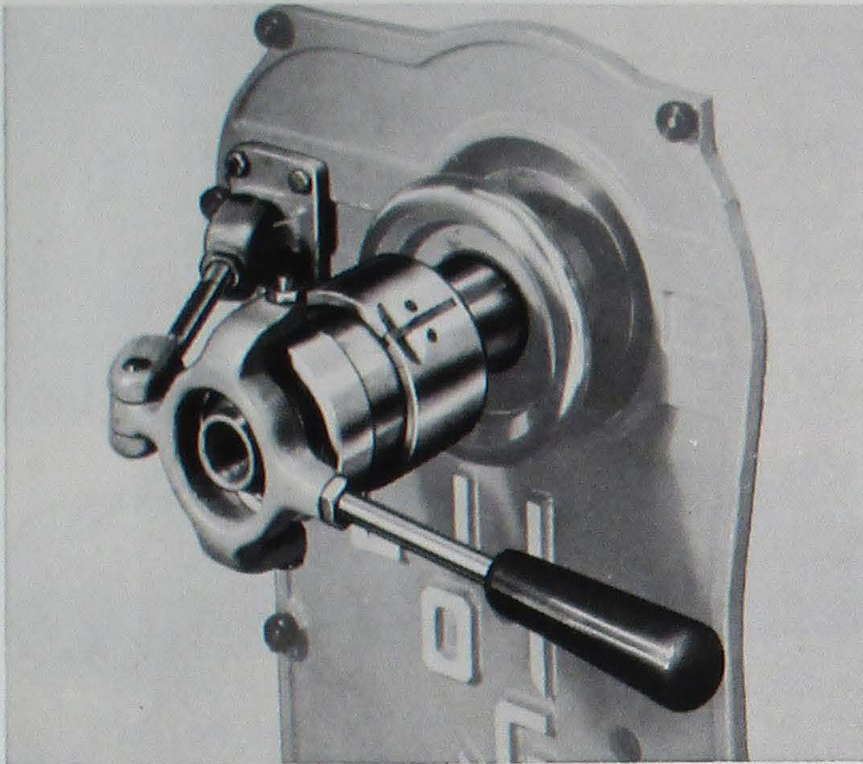
No. 447 No. 2 M.T. for No. 451 Jacobs Chuck. Shipping wt. 1 lb.

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

## CHUCK ADAPTERS (Semi-Finished)

Cat. No.	Threaded	Chuck No. Chuck Diam.	Wt.	Cat. No.	Threaded	Chuck No. Chuck Diam.	Wt.
AC-101	1 1/2"-8 thd.	5"	4 lbs.	2303	L-00	1064, 1284	5 lbs.
AC-104	1 1/2"-8 thd.	6"	7 lbs.	2305	L-00	3634, 3662	6 lbs.
AC-105	2 1/4"-8 thd.	1063	5 lbs.	2306	L-00	1310	7 lbs.
AC-107	2 1/4"-8 thd.	6"	7 lbs.	6311	2 1/4"-8 thd.	6309	8 lbs.
AC-108	1 1/2"-8 thd.	1063	5 lbs.	6313	2 1/4"-8 thd.	1310	6 lbs.
AC-113	1 1/2"-8 thd.	3634, 3662	5 lbs.	6385	2 1/4"-8 thd.	4733	8 lbs.
AC-114	2 1/4"-8 thd.	3634, 3662	5 lbs.	6833	L-0	4733	9 lbs.
AC-117	2 1/4"-8 thd.	1064, 1284	5 lbs.	6834	L-0	6309	13 lbs.
AC-126	1 1/2"-8 thd.	1064	5 lbs.	6836	L-0	1310	9 lbs.
2300	L-00	1063	6 lbs.				
2301	L-00	4733	9 lbs.				
2302	L-00	6309	15 lbs.				

# COLLETS, COLLET ATTACHMENTS AND ACCESSORIES



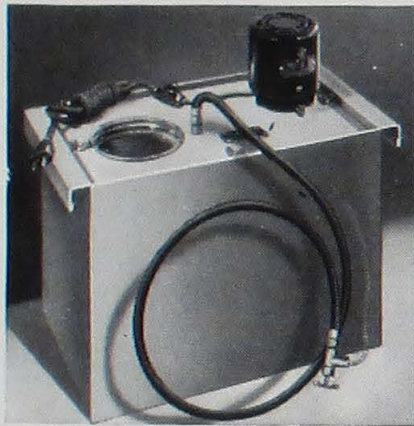
## PRODUCTION COLLET ATTACHMENTS

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.

Cat. No.	For Lathe	Collet Used	Max. Collet Capacity	Ship Wt. Lbs.
<b>AC-166</b>	800 and 1800 series	AC-30	1/2"	12
<b>AC-360-3</b>	11" lathes	475	1 1/16"	18
<b>2744</b>	12" lathes serial #68249 and over, threaded spindle	475	1 1/16"	22
<b>2743</b>	12" lathes with L-00 spindle	475	1 1/16"	23
<b>8000</b>	14" lathes up to serial #81143 threaded spindle	475	1 1/16"	30
<b>8004</b>	14" lathes serial #81143 and over, threaded spindle	475	1 1/16"	30
<b>8001</b>	14" lathes up to serial #81005 L00 spindle	475	1 1/16"	32
<b>8005</b>	14" lathes serial #81005 and over, L00 spindle	475	1 1/16"	32
<b>8152</b>	14" lathes with L-0 spindle	475	1 1/16"	32

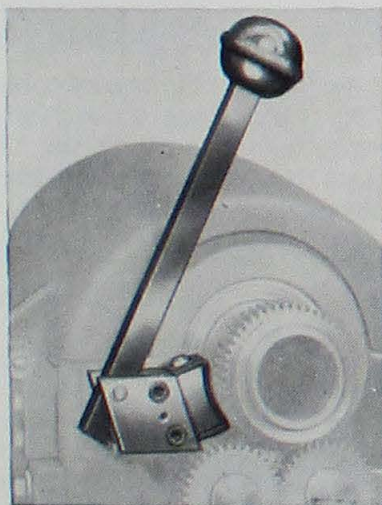
## HEAVY DUTY COOLANT PUMP

High Pressure—  
Gear Type



Light weight, portable. Operates independently of the machine tool. Delivers from 90 gallons per hour to a few drops. 20 lbs. pressure capacity. 1/25 H.P., 115 V., AC 60 Cy. 1 phase Motor. 7 1/2 gallon container has 5" bowl screen strainer. 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.

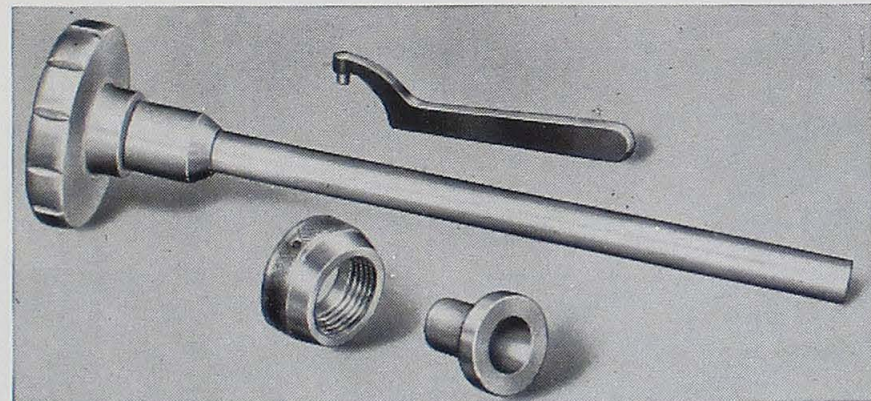
No. 525-2 Ship. wt., 38 lbs.



## SPINDLE BRAKE

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

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



## DRAW-IN COLLET CHUCK ATTACHMENTS

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

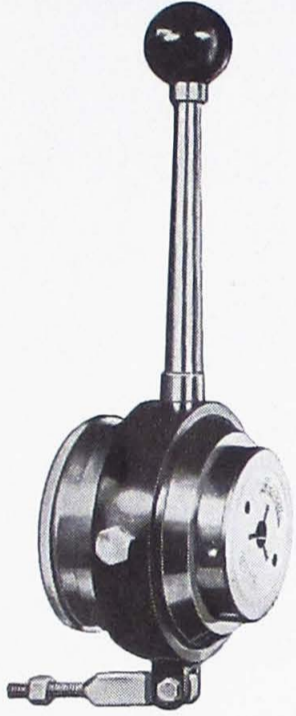
Cat. No.	For Lathe Size	Collet Used	Max. Collet Capacity	Ship. Wt. Lbs.
<b>AC-251</b>	9"	AC-30	1/2"	4
<b>AC-152</b>	10"	AC-30	1/2"	5
<b>LA-1050-1</b>	11" lathes	475	1 1/16"	8
<b>2380</b>	12" lathes serial #68249 and over, threaded spindle	475	1 1/16"	11
<b>2390</b>	12" lathes with L00 spindle	475	1 1/16"	12
<b>6300</b>	14" lathes up to serial #81143, threaded spindle	475	1 1/16"	12
<b>8006</b>	14" lathes serial #81143 and over, threaded spindle	475	1 1/16"	12
<b>6340</b>	14" lathes up to serial #81005, L00 spindle	475	1 1/16"	13
<b>8007</b>	14" lathes serial #81005 and over, L00 spindle	475	1 1/16"	13

# COLLETS, COLLET ATTACHMENTS AND ACCESSORIES

## 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 entire length.



Lever-Matic Sizes

Cat. No.	Collet Capacity	Lathes Fitted (or Spindle Fitted)	Ship. Wt. (lbs.)
100	1"	Logan 9", 10"	19
150	1 1/2"	Logan 11", 12", 14"	41
150-L	1 1/2"	For L-100 Spindle Fits 11", 12" and 14" Logan Lathes with L-00 Spindle	41
150-LO	1 1/2"	14" Lathe LO	41

Co-Netic Collets

Cat. No.	Size	Lever-Matic Chuck Fitted	Ship. Wt. (lbs.)
110	1/8" to 1" by 32nds	No. 100	1
160	1/4" to 1 1/2" by 32nds	No. 150, 150-L, and 150-LO	2



## 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" Lathes. Ship. wt., 7 lbs.

**No. AC-350** for AC-50 Collets on 10" Lathes. Ship. wt., 7 lbs.

**No. AC-345** for No. 475 Collets on 11" and 12" Lathes. Ship. wt., 7 lbs.

**No. 6325** for No. 475 Collets on 14" Lathes. Ship. wt., 7 lbs.



## DRAW-IN COLLETS

**No. AC-30** Sizes 1/16" to 1/2" by 32ds. Round. Ship. wt., 1/2 lb.

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

**No. 475** Sizes 1/16" to 1 1/16" by 32ds. Round. Ship. wt. 3/4 lb.

**No. 476-S** Set of 16 #475 Collets, 1/16" to 1" by 16ths. Ship. wt. 9 lbs.

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



## PUSH TYPE COLLETS

**No. AC-50** Used with LA-32-34 Bar Feed on Hand Screw Machines only. Sizes 1/16" to 5/8" by 32ds. Round. Ship. wt. 1/2 lb.

**No. AC-45-S** Set of 19 #AC-50 Collets, 1/16" to 5/8" by 32ds. 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 Lathes

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 clicking 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 Lathes. Shipping weight, 7 lbs.

**No. LA-775-1** Fits Logan 10" and 11" Quick Change Gear Lathes with Serial Numbers 67839 and over. Shipping weight 7 lbs.

Now furnished as standard equipment on new 10" and 11" Lathes. **No. LA-774-1** Fits Logan 10" and 11" Quick Change Gear Lathes from Serial Number 46562 to 67838 and 2900 Series 12" Lathes. Shipping weight 9 lbs.

**No. 2410** Fits Logan 12" 2500 Series Lathes and all 14" Lathes. Shipping weight 7 lbs. Now furnished as standard equipment on new 12" and 14" Lathes.



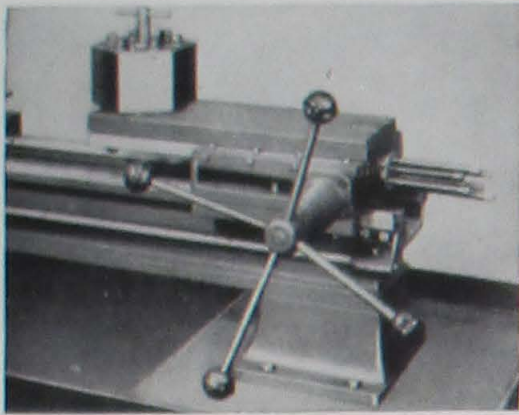
## PALMGREN MILLING ATTACHMENT

Mounted in 10 seconds on any tool post up to 1 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 1/2" wide, 1 1/16" deep, and open to 2 1/2".

**No. 250** Shipping weight, 14 lbs.





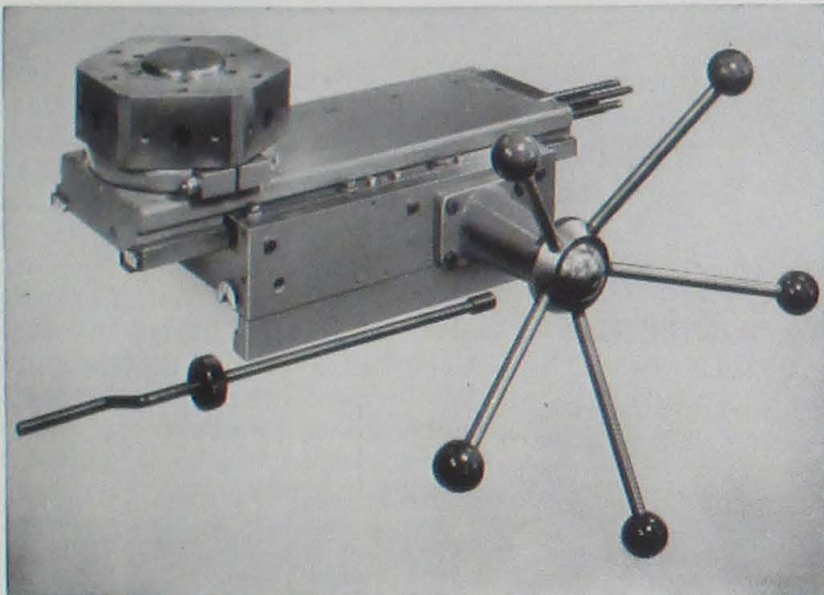


LA-70 Bed Turret

### HEXAGON TURRETS

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 a lathe into a turret lathe. Extra heavy construction assures maximum smoothness and accuracy. Turret lock furnished provides increased rigidity for heavy cuts.  $5\frac{1}{4}$ " across turret head flats—adjustable gibs on side—furnished unbored. Can be bored at factory at no extra charge if ordered with a lathe. Specify  $\frac{5}{8}$ " or  $\frac{3}{4}$ " turret holes.

No. LA-70 Pilot Wheel Turret.  $7\frac{3}{4}$ " 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,  $2\frac{9}{16}$ ". Turret head indexes and locks automatically. Width of turret block across flats,  $8\frac{1}{2}$ ". Bolt holes in face,  $\frac{7}{16}$ "-14. Turret block locked by cam operated locking ring. Maximum travel at one setting, 9". Slide length, 21". Base length, 17". Furnished with  $\frac{7}{8}$ " machined holes. Can be bored at factory up to  $1\frac{1}{2}$ " 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., 350 lbs.

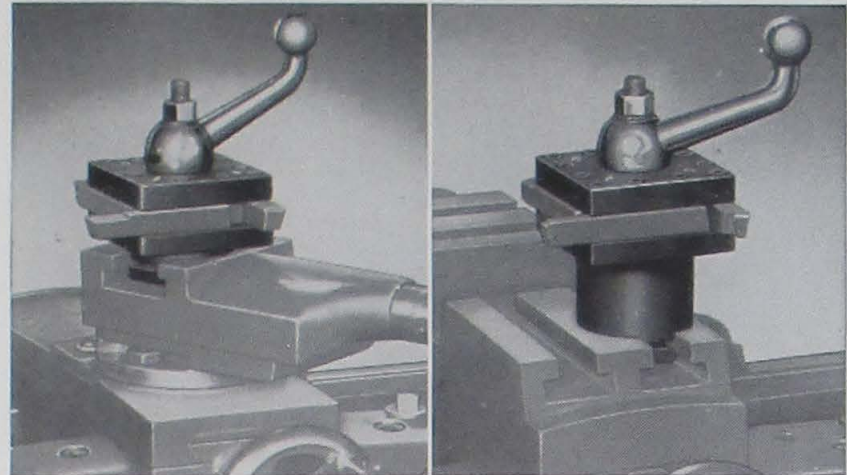
### No. 521 TAILSTOCK TURRET

Fits in No. 2 Morse Taper of Tailstock

Finger tip control rotates 6 tools in direct line with spindle.  $2\frac{1}{2}$ " diameter.  $\frac{5}{8}$ " turret holes. Shipping wt., 4 lbs.



### TURRET TOOL POSTS



Quickly set up on the T-slot of a compound rest. Mount four tools up to  $\frac{3}{8}$ ". 12 stations available, with three working positions for each tool. On jobs requiring less than four tools, duplicate tools may be set up for uninterrupted production. Square tool block indexes at  $30^\circ$  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", 11" and 12" 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. Ship. wt., 17 lbs.

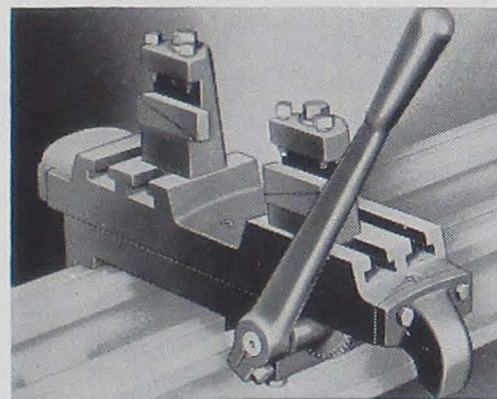
#### For Turret Lathes

No. 514 For all 10", 11" 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.

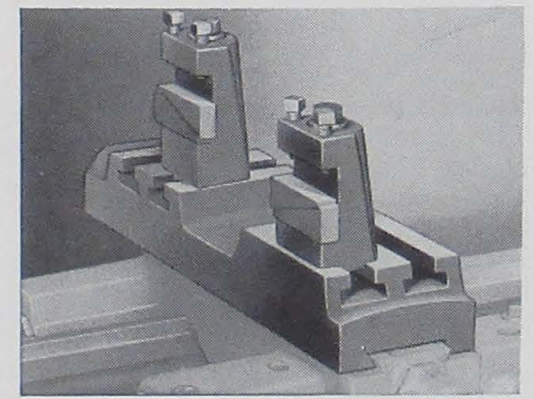
No. LA-25-1 For all Logan 10" Lathes. Ship. Wt., 38 lbs.

No. LA-1108 For all Logan 11" Lathes. Ship. Wt., 39 lbs.

No. LA-29-1-L Same as LA-29-1 but with added lever operation. Ship. Wt., 27 lbs.

No. 2095-L Same as 2095 but with added lever operation. Ship. Wt., 30 lbs.

No. 6410-L Same as 6410 but with added lever operation. Ship. Wt. 70 lbs.



Manual Feed

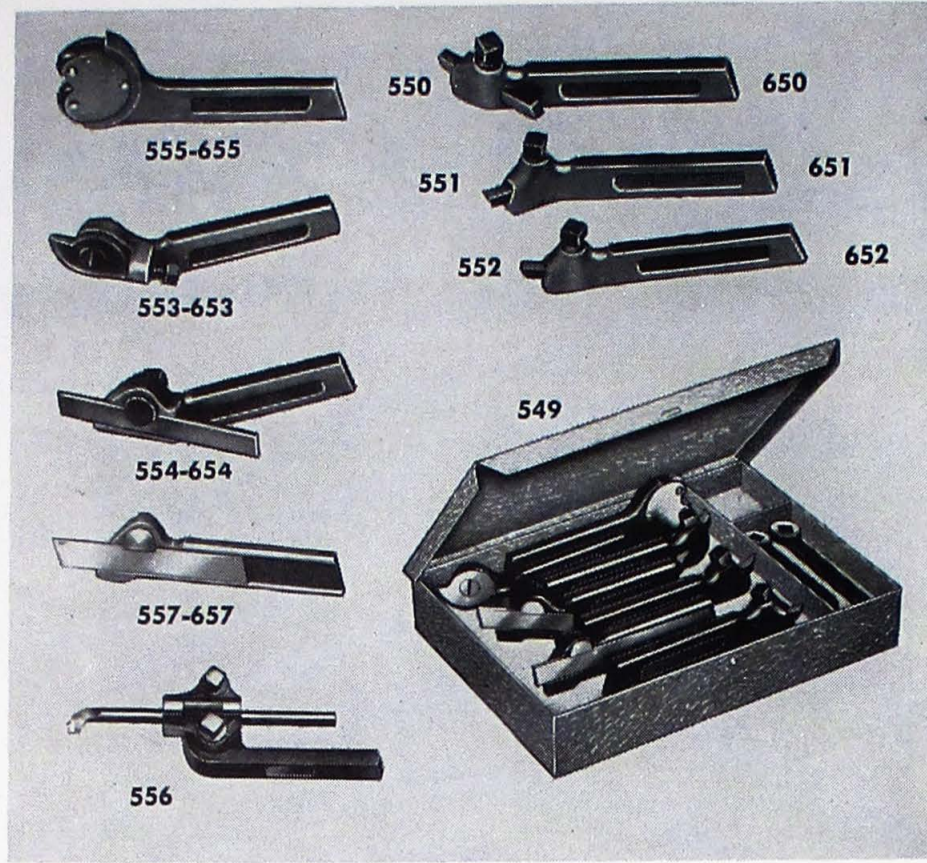
Replaces compound rest for hand wheel or power cross feed operation. In ordering double tool post cross slides, give serial number of lathe on which it is to be used.

No. LA-29-1 For Logan 10" Lathes, serial #29568 and over. For all Logan 11" Lathes. Ship. Wt., 24 lbs.

No. 2095 For 12" Lathes, 2500 series. Ship. Wt., 27 lbs.

No. 6410 For 14" Lathes. Shipping Wt., 65 lbs.

# Logan L A T H E



## TOOL HOLDERS

For 9", 10", 11" and 12" Logan Lathes, 3/8" x 3/4" Shanks

Drop forged steel heat treated tool holders individually boxed and including wrench and tool bit.

Cat. No.	Description	Cutter Size	Ship. Wt.
550	L. H. Turning Tool Holder	1/4" sq.	1 lb.
551	R. H. Turning Tool Holder	1/4" sq.	1 lb.
552	Straight Turning Tool Holder	1/4" sq.	1 lb.
553	Threading Tool Holder	60° thread	1 lb.
554	R. H. Cut-off Tool Holder	3/32 x 5/8"	1 lb.
557	Straight Cut-off Tool Holder	3/32 x 5/8"	1 lb.
555	Knurling Tool Holder	Med. Dia. Knurls	1 lb.
556	Boring Tool Holder	1/4" bar	1 lb.
549	Tool Holder Set. One each of above. Eight tool holders in a steel box.		7 lbs.
563	Extra Threading Cutter, 60°, for 553 Tool Holder		1/2 lb.
564	Extra Cut-off Blade for 554 or 557 Tool Holder		1/4 lb.
565	Extra Diamond Knurls for 555 Tool Holder. Specify fine, medium, or coarse.		1/4 lb.

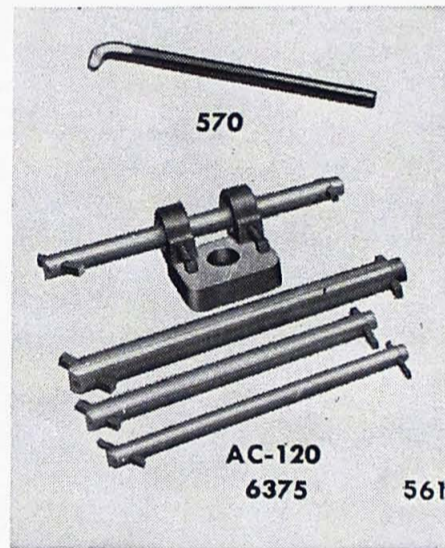
For 14" Logan Lathes, 1/2" x 1 1/8" Shanks

650	L. H. Turning Tool Holder	5/16" sq.	1 1/2 lbs.
651	R. H. Turning Tool Holder	5/16" sq.	1 1/2 lbs.
652	Straight Turning Tool Holder	5/16" sq.	1 1/2 lbs.
653	Threading Tool Holder	60° Thread	1 1/2 lbs.
654	R. H. Cut-off Tool Holder	1/8 x 3/4"	1 1/2 lbs.
657	Straight Cut-off Tool Holder	1/8 x 3/4"	1 1/2 lbs.
655	Knurling Tool Holder	Med. Dia. Knurls	1 1/2 lbs.
663	Extra Threading Cutter, 60°, for 653 Tool Holder		1/2 lb.
664	Extra Cut-off Blade for 654 or 657 Tool Holder		1/4 lb.
665	Extra Diamond Knurls for 655 Tool Holder. Specify fine, medium, or coarse.		1/4 lb.

## SOLID BORING BAR

Used with No. 556 Boring Tool Holder. Can be ground for internal thread cutting as well as for boring.

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



## HEAVY DUTY BORING TOOL SETS

Mounts on compound and is held in place by regular tool post.

**No. AC-120** Heavy Duty Boring Bar Tool Set for Logan 9", 10", 11" and 12" lathes. Includes 3/8", 1/2", 5/8" and 3/4" 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", 5/8", 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, 23 lbs.

## CUTTER BITS

**No. 560** HSS Blank Cutter Bits, size 1/4" x 1/4"—packaged set of 6, ship. wt. 1 lb.

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

**No. 660** HSS Blank Cutter Bits, size 5/16" x 5/16". Packaged set of 6. Ship. wt. 1 lb.

## CENTER COUNTERSINK DRILLS

Drill and countersink bearings for Lathe Center. Three sizes.

No.	Size	Ship. wt.
575-A	1/16"	1/4 lb.
575-B	3/32"	1/4 lb.
575-C	1/8"	1/4 lb.

## 60° MALE CENTER

**No. LA-187** Hardened, ground. No. 2 M. T. shank. Ship. wt. 1/2 lb.

**No. 6113** Hardened, ground. No. 3 M. T. Shank. Ship. wt. 1 lb.

## LATHE DOGS

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

Standard No.	Safety No.	Cap.	Ship. Wt.	Safety Dog Wrench No.
580A	581A	3/8"	1/4 lb.	0880
580B	581B	1/2"	1/4 lb.	0880
580C	581C	3/4"	1/4 lb.	0886
580D	581D	1"	1/2 lb.	0887
580E	581E	1 1/4"	1/2 lb.	0893
580F	581F	1 1/2"	1/2 lb.	0893

## Clamp Type

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

## DRIVE AND FACE PLATES

Cat. No.	Description	Diam.	Spindle Size	Ship. Wt. Lbs.
LA-170	Drive Plate	6"	1 1/2"-8 thd.	4
LA-1009	Drive Plate	6"	2 1/4"-8 thd.	4
6005	Drive Plate	7 1/2"	2 1/4"-8 thd.	6
2307	Drive Plate	7"	L-00	10
LA-344*	Face Plate	8"	1 1/2"-8 thd.	6
LA-1008	Face Plate	8"	2 1/4"-8 thd.	6
2010†	Face Plate	10"	2 1/4"-8 thd.	16
2310	Face Plate	10"	L-00	16
6383*	Face Plate	12"	2 1/4"-8 thd.	21
6806	Face Plate	12"	L-0	26
6807	Drive Plate	7 1/2"	L-0	13

\*Fits 14" lathes only.

†Fits 12" and 14" lathes only.

\*Fits 10" lathes only.

## 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.

**No. 502** Combination Machine Light and Koolshield. Shipping Wt. 5 lbs.

## ANTI-FRICTION CENTER

Superior quality. Live center. Grease-sealed precision bearings. Centerpiece angle 60°.

**No. 595** No. 2 Morse Taper Shank. Ship. Wt., 3 lbs.

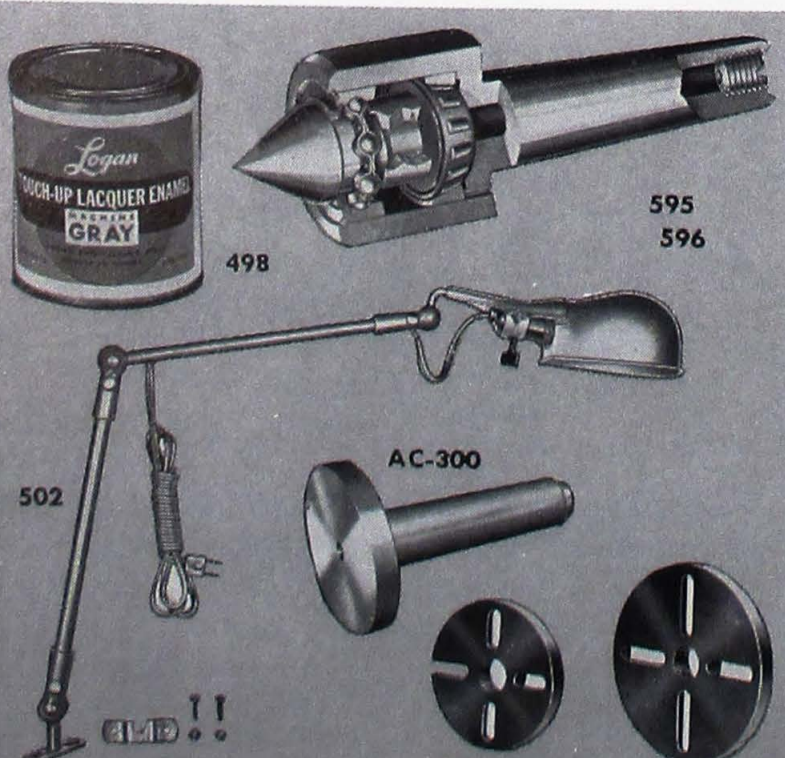
**No. 596** No. 3 Morse Taper Shank. Ship. Wt., 4 lbs.

## DRILL PAD

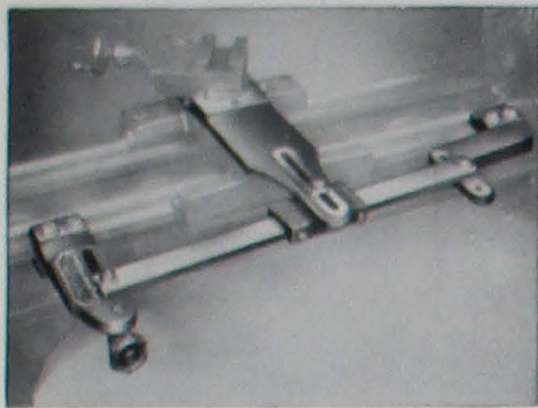
**No. AC-300** No. 2 Morse Taper. 2" Diameter. Ship. Wt., 1 lb.

## LACQUER ENAMEL

**No. 498** 1 pt.—Matches Standard Logan Light Gray. Brush or Spray. Shipping wt., 2 lbs.



# 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.

Cat. No.	Lathes	Maximum Taper Length At One Setting	Per Ft.	Angle 0°	Ship. Wt. Lbs.
AC-270	400-1400	7"	4"	19°	15
AC-275	9B series	7"	4"	19°	15
AC-298	10"	12 1/2"	4"	19°	18
AC-295	11"	12 1/2"	4"	19°	20
AC-2296†	12"	12 1/2"	4"	19°	22
2350††	12"	10"	4 1/8"	20°	48
6329*★	14"	10"	4 1/8"	20°	60

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

†For "2500" series 12" Lathes only.

\*★For all 14"x28" Lathes and for 14"x40" Lathes from serial #78562.

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

\*No. 2470 Direct Reading Cross Feed Dial Assembly for 12" 2500 series lathes. 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. To be installed by customer.

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

No. 12630 Direct Reading Cross Feed Dial Assembly for 10" and 11" lathes from Serial No. 71060. To be installed by customer.

No. 12631 Same as 12630 but factory installed on new 10" or 11" lathe in place of standard cross feed dial assembly.

\*Includes cross feed screw and nut.

## MICA UNDERCUTTER

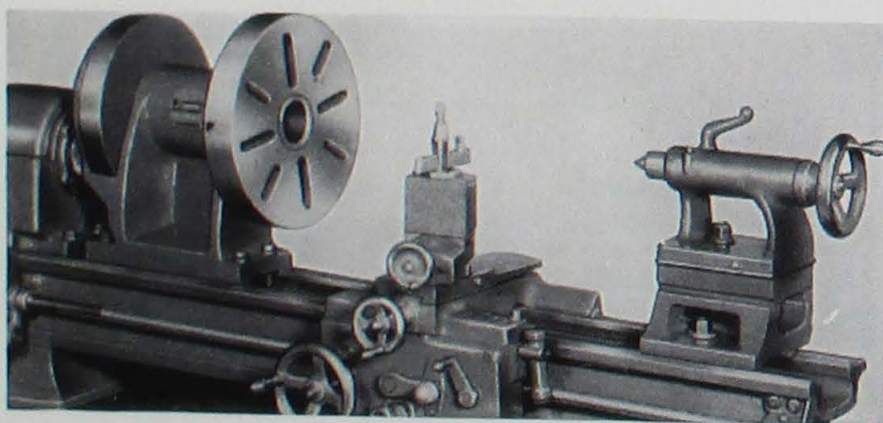
No. 490 For Logan 9", 10", 11" and 12" Lathes. Shipping weight, 8 lbs.

No. 488 Mica Undercutter Saws. Packet of 6 blades .015". Ship. wt. 1/4 lb.

No. 489 Mica Undercutter Saws. Packet of 6 blades .020". Ship. wt. 1/4 lb.

## AUXILIARY HEAD

Adapts Logan 11" Lathes for Oversize Work



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

Gives Logan 11" Lathes 16" Swing over bed and 14 1/2" Swing over saddle wings . . . Ball Bearing Mounted Spindle . . . 2 1/4", 8-Thread Spindle Nose . . . Attached in 10 minutes, easy to detach . . . 12" Face Plate.

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

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

## CARRIAGE STOPS

No. AC-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., 5 lbs.

No. AC-226 Double Carriage Stop. Adjustable screws set carriage for two desired positions. Used either side of carriage. For 9", 10", 11" and 12" Logan Lathes. Ship. wt., 3 lbs.

No. AC-225 Carriage Stop. Used either side of carriage. Screw with lock-nut gives accurate adjustment. For 9", 10", 11" and 12" Logan Lathes. Ship. wt., 2 lbs.

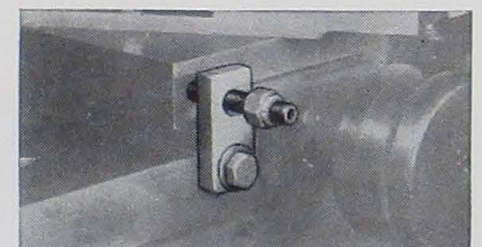
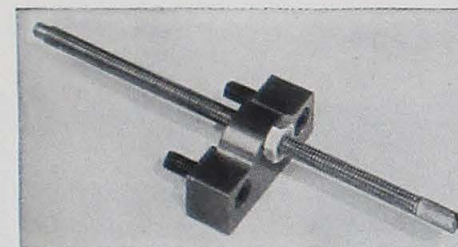
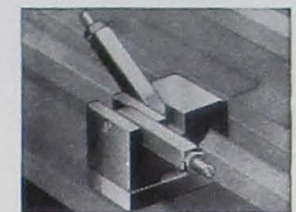
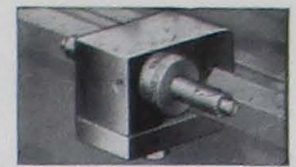
## MULTIPLE CARRIAGE STOP

Six positions. Mounts on lathe bed.

No. AC-435 For all 12" Lathes. Ship. wt., 5 lbs.

No. AC-437 For all Quick Change 11" Lathes. Ship. wt., 5 lbs.

6425 For 14" Lathes. Ship. wt. 12 lbs.



## THREADING STOPS

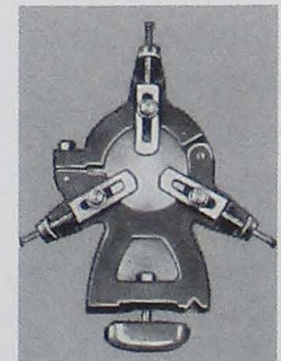
No. AC-352 6" adjustable range. Mounts on rear of saddle on 9", 10" and 11" Logan Lathes. Adjustable screw for positive stop against cross feed nut. Template furnished. Shipping weight, 3 lbs.

No. 6380 For 12" and 14" Logan Lathes. Mounts on saddle with adjustable screw in compound base. Template furnished. Shipping weight, 3 lbs.

## 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.

Cat. No.	Capacity	Lathe Size	Ship. Wt.
AC-280	3"	400-1400	9 lbs.
AC-282	3"	9B series	9 lbs.
AC-189	3"	10"	10 lbs.
AC-290	3"	11"	10 lbs.
AC-2189	3"	12"	11 lbs.
6315	4 3/4"	14"	23 lbs.



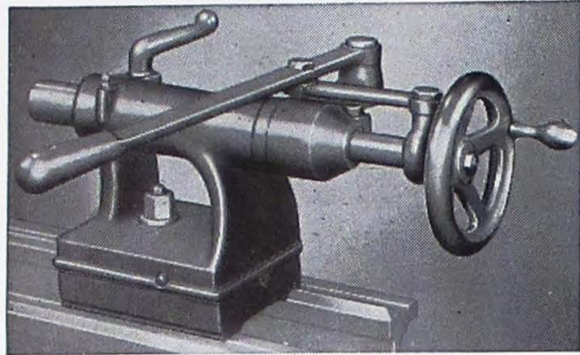
## FOLLOWER RESTS

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

Cat. No.	Capacity	Lathe Size	Ship. Wt.
AC-285	3"	9"	4 lbs.
AC-196	3"	10", 11"	5 lbs.
AC-2196	3"	12"	6 lbs.
6320	4 1/4"	14"	9 lbs.

# Logan ACCESSORIES

## LEVER TAILSTOCKS



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

Cat. No.	For Lathe	Lever Stroke	Morse Taper	Ship. Wt.
AC-240	#1400	2 3/4"	No. 2	15 lbs.
LB-192	#9B	2 3/4"	No. 2	15 lbs.
AC-241	10"	2 3/4"	No. 2	30 lbs.
AC-375	11"	3 3/4"	No. 2	34 lbs.
AC-384	12"	4"	No. 2	45 lbs.

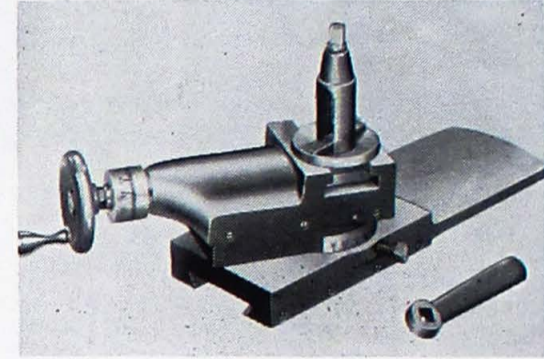
## STANDARD TAILSTOCKS



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.)

Cat. No.	For Lathe Size	Ship. Wt.
LA-3-1	10"	24 lbs.
LA-1065	11"	29 lbs.
2065	12"	32 lbs.

## 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.

Cat. No.	For Lathe Size	Ship. Wt. Lbs.
LA-49-5	10" Lathes, serial #50843 and over. For all 11" lathes.	13
2085	12" Lathes, #2500 series.	25

## QUICK CHANGE GEAR ATTACHMENT



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

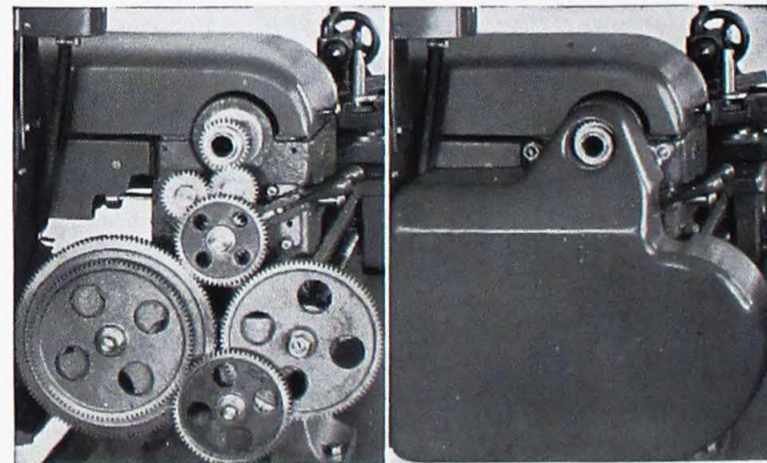
Provides 48 threads and feeds in either direction. Screw threads from 8 to 224 per inch. Two lever adjustment. Changing 36-tooth stud gear for 72-tooth stud gear, provides additional threads of from 4 to 7 per inch. Complete with a replacement lead screw, parts and installation instructions. Attachments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

No. LA-1200-1—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



Without Gear Guard

With Gear Guard

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 .020 mm. pitch. All gears semi-steel, 16 pitch, 7/16" wide and carefully machined.

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. 46561 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.

## 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.

Cat. No.	H.P.	R.P.M.	Phase	Voltage	Cycle	Bearings	Lathe Size or Model	Ship. Wt.
1101	1/3	1725	1	110/220	60	Ball	9"	33 Lbs.
1105	1/2	1725	1	110/220	60	Ball	9" or 10"	50 Lbs.
1106	1/2	1725	1	110/220	50	Ball	9" or 10"	50 Lbs.
1110	1/2	1725	3	220/440	60	Ball	9" or 10"	50 Lbs.
1111	1/2	1725	3	220/380	50	Ball	9" or 10"	50 Lbs.
1114	1 1/2	1800/900	3	220	60	Ball	12"	60 Lbs.
1116	3/4	1725	1	110/220	60	Ball	11"	65 Lbs.
1118	3/4	1725	3	220/440	60	Ball	11"	60 Lbs.
1120	1	1725	3	220/440	60	Ball	12"	60 Lbs.
1122	2	1725	3	220/440	60	Ball	14" (6510-H & 6560-H)	70 Lbs.
1122DB	2	1725	3	220/440	60	Ball	14" (6565 & 6530)	70 Lbs.
1123	3	1725	3	220/440	60	Ball	14" (6565 & 6530)	85 Lbs.
1123DB	3	1725	3	220/440	60	Ball	14" (6565 & 6530)	85 Lbs.
1124	2/1	1800/900	3	220	60	Ball	14" (6565 & 6530)	85 Lbs.
1124DB	2/1	1800/900	3	220	60	Ball	14" (6565 & 6530)	85 Lbs.
1125	3/1 1/2	1800/900	3	220	60	Ball	14" (6565 & 6530)	110 Lbs.
1125DB	3/1 1/2	1800/900	3	220	60	Ball	14" (6565 & 6530)	110 Lbs.

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

## MOTOR SWITCHES AND MOTOR CONTROLS

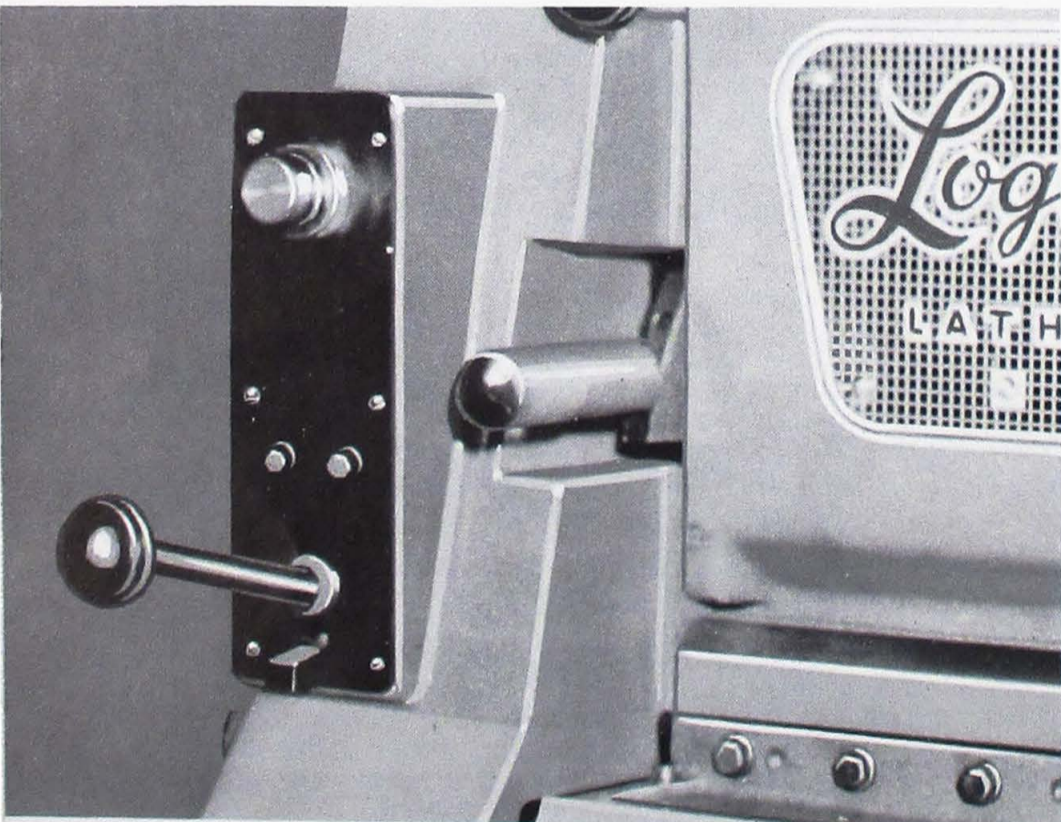
Optional electrical equipment for all Logan Cabinet Model Lathes. Price includes complete installation and wiring when ordered with Lathe.

- 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 motor protection plus safety protection to machine and operator. Stops motor when voltage drops below safe level or power is interrupted. Recommended for 10", 11" and 12" lathes. On 14" lathes, consult factory.
- 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-H and 6560-H 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. 6350DB-T** 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 but with transformer reducing voltage to push buttons. Recommended for 440V installation.
- No. 6355DB-T** Reversing Magnetic Starter with Control Transformer. Same as 6355-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), oiltight push button controls, and totally enclosed motors to J.I.C. specifications. For these and any other unlisted controls, contact factory.

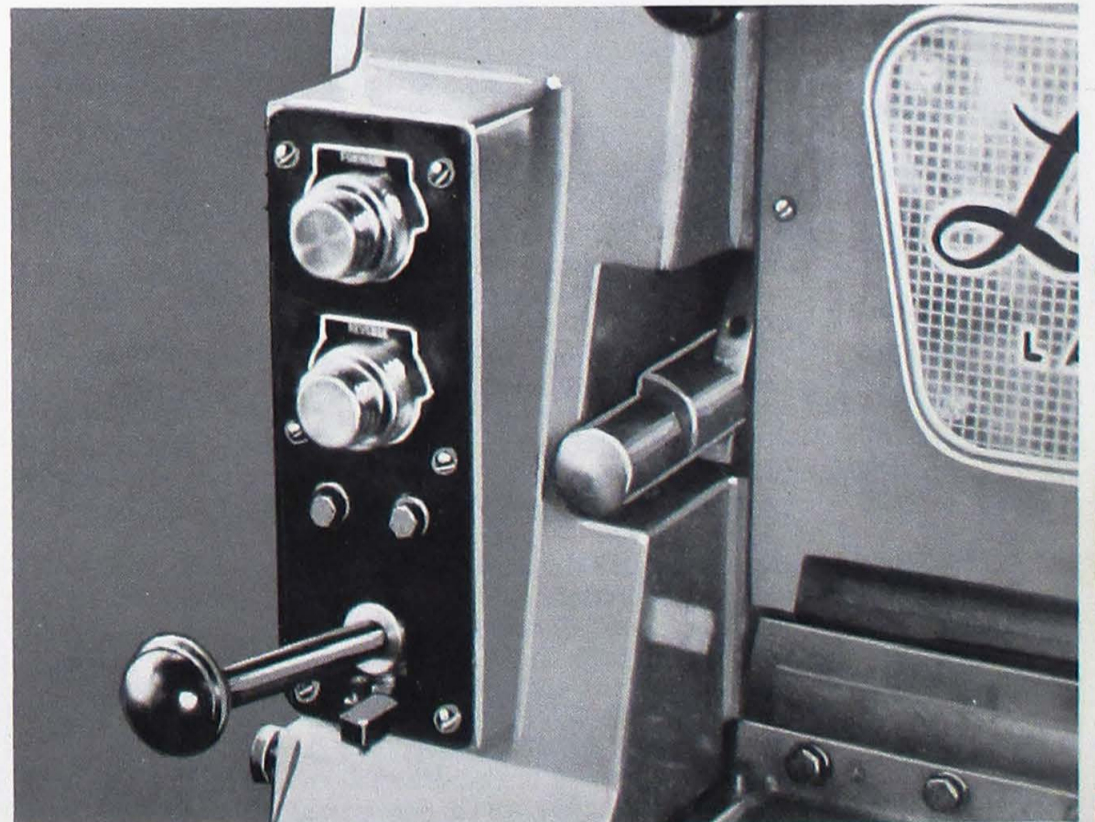
**SAFETY  
BRAKES  
AND  
POWER  
CONTROLS**  
(FACTORY INSTALLED)

		Lathe Size or Model
No. J-139	Safety Brake and Power Control without Overload and Undervoltage Protection, 208-220V.....	12"
No. J-140	Safety Brake and Power Control with Overload and Undervoltage Protection, 208-220V.....	12"
No. J-141	Same as J-140—with Transformer. For 440V installation.....	12"
No. J-101	Safety Brake and Power Control with Overload and Undervoltage Protection, 208-220V.....	6510-H, 6560-H
No. J-102	Same as J-101—with Transformer. For 440V installation.....	6510-H, 6560-H
No. J-103	Safety Brake and Power Control without Overload and Undervoltage Protection, 208-220V.....	6510-H, 6560-H
No. J-104	Combination Safety Brake and Magnetic Reversing Starter, with Push Buttons in Brake Well, 208-220V 3 ph. ....	6510-H, 6560-H
No. J-110	Same as J-104—with Transformer. For 440V installation.....	6510-H, 6560-H
No. J-105	Safety Brake and Power Control without Overload and Undervoltage Protection, 208-220V.....	6565, 6530
No. J-106	Safety Brake and Power Control with Overload and Undervoltage Protection, 208-220V.....	6565, 6530
No. J-107	Same as J-106—with Transformer. For 440V installation.....	6565, 6530
No. J-108	Combination Safety Brake and Magnetic Reversing Starter, with Push Buttons in Brake Well, 208-220V 3 ph. ....	6565, 6530
No. J-111	Same as J-108—with Transformer. For 440V installation.....	6565, 6530

**NOTE:** All of the above are used with a drum switch except No. J-104, J-110, J-108, and J-111.  
On brakes for 14" lathes below Serial No. 79750 consult factory.



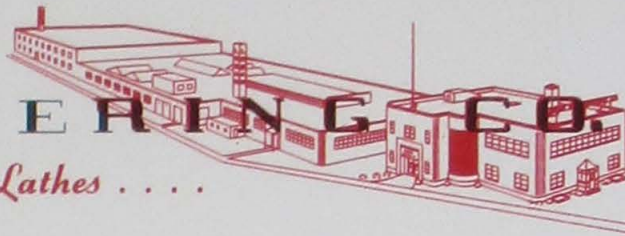
Safety Brake and Power Control for 14" Lathe. Installed in brake well with re-set button. Catalog Nos. J101, J102, J103, J105, J106 and J107.



Combination Safety Brake and Magnetic Reversing Starter for 14" Lathes. Installed in brake well with forward and reverse push buttons. Brake lever is the stop station. Catalog Nos. J104, J110, J108 and J111.

# LOGAN ENGINEERING CO.

*Back-Geared Screw-Cutting and Turret Lathes . . . .*



THE Logan LINE • LATHES, SHAPERS, DRIFTERS, MINE HOIST CONTROLLERS AND RECORDERS, HYDRAULIC PRESSES AND PREFORMERS

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CABLE ADDRESS: "LOGANENG"

Gentlemen:

The success of any machine tool manufacturer is contingent on the support by the customers and dealers.

To our customers, we wish to express our thanks for your patronage, and we shall try to earn your support in the future.

Our dealers and their staffs have given us wonderful support over the years, for which we thank them, and we know we can count on their cooperation in the future.

As the manufacturer, we shall constantly strive to improve our products and develop new ones to meet our customers' needs.

If we can be of service to you at any time, through our dealers or from our office, please do not hesitate to contact us.

Yours very truly,

LOGAN ENGINEERING CO.

*Laurence H. Fenwick*

LHF:sv

Laurence H. Fenwick  
MACHINE TOOL DIVISION



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, ILL. 60630**

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