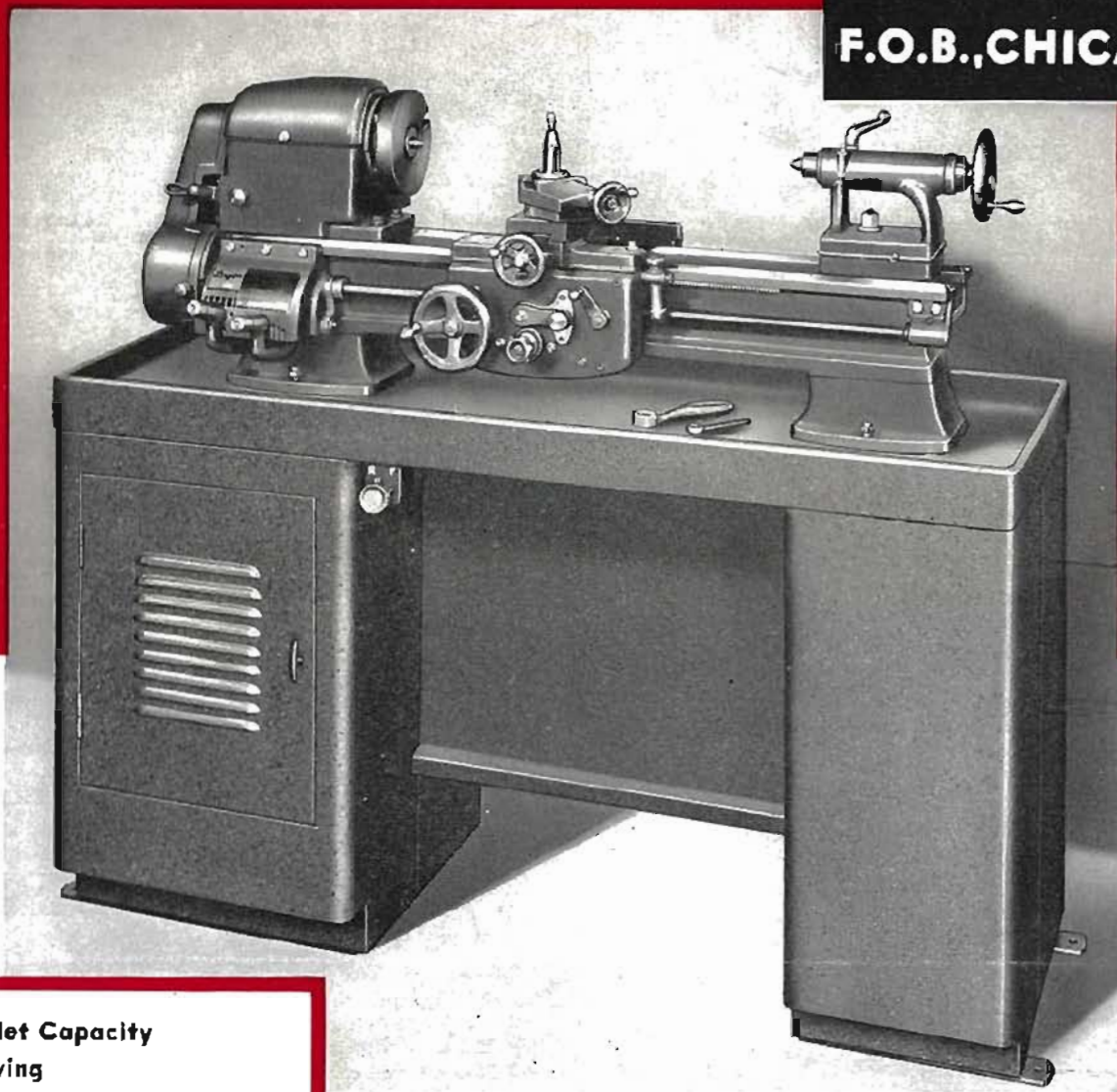


# THIS IS THE NEW LOGAN '955' 1 INCH COLLET CAPACITY LATHE

**\$585.00**

**F.O.B., CHICAGO**



**1" Collet Capacity**  
**11" Swing**  
**1 3/8" Spindle Hole**  
**24" Between Centers**  
**(36" Distance also available)**  
**1/2 HP or 3/4 HP Motor**

## **A NEW HIGH IN VALUE**

The 955 has all the specifications and tolerances of other lathes selling at up to \$1000.00. Lasting accuracy, minimum maintenance, long service life and quality performance multiply the initial saving in price.

.. FACTORY DISTRIBUTORS ..  
**KAPLAN BROTHERS,**  
337-339 EAST MAIN STREET,  
WATERBURY 5, CONN.  
PHONE 3-5141.

# HERE ARE THE FACTS ABOUT THE '955'

## FOR MANUFACTURING AND PRODUCTION . . .

The 955 combines the sustained accuracy and high speed that assure economical production runs. The compact new 955 pedestal base permits multiple battery installations within a minimum of floor space.

## FOR TOOL ROOMS

Ability to hold close tolerances on any type of lathe operation makes the 955 an efficient, cost-saving lathe for tool rooms and experimental shops.

## FOR MAINTENANCE

Quick, easy set-up and adaptability to widely varied operations make the 955 an effective tool for all types of maintenance work and general machine shop use.

## FOR VOCATIONAL EDUCATION

The 955 has the safe, enclosed design that protects student operators, the versatility and capacity to permit a wide and interesting range of work projects, the rugged construction that withstands hard use, and the low cost that permits the limited budget to provide more work stations.

## FOR SERVICE AND REPAIR SHOPS

The 955 assures more efficient, lower cost, higher profit operation in auto, aircraft, home appliance and general repair work on a remarkably low investment.

## SIX VITAL FACTORS IN '955' PERFORMANCE

### SIZE

1" collet capacity, 11" swing, 1 $\frac{3}{8}$ " spindle hole, 24" or 36" between centers, 1/2 or 3/4 HP Motor.

### ACCURACY

Typical tolerances: Less than .0005" total runout of spindle 12" from the bearing. Bed ways precision ground to within .0005" variation.

### DURABILITY

Extra rugged overall construction withstands years of constant use with a minimum of maintenance and a maximum of accuracy.

### SAFETY

Headstock, countershaft and motor completely enclosed. Even the drum reversing switch is designed and located to prevent accidental operation.

### VERSATILITY

A full line of accessories available for a wide variety of work. Spindle speeds from 45 to 1500 rpm for all work from roughing to high speed carbide tool cutting.

### ECONOMY

Lower in price than any lathe of comparable specifications. Lasting accuracy, minimum maintenance, long service life and quality performance multiply the initial saving in price.

## CAPACITY OF LATHE

Swing over bed and saddle wings.....11 $\frac{1}{8}$ "  
Swing over saddle cross slide.....6 $\frac{1}{8}$ "

## 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.....61 $\frac{5}{8}$ "  
Length .....43 $\frac{1}{8}$ " and 55 $\frac{1}{8}$ "  
Precision ground ways; 2 prismatic "V" ways and 2 flat ways.

## HEADSTOCK AND SPINDLE

Spindle Bearings: Sealed New Departure Ball Bearings, precision type with preloading.  
Back Gear Shaft Bearings: Self lubricating bronze bearings.  
Hole through spindle—1 $\frac{3}{8}$ ".  
Spindle Nose Diameter and threads per inch: 2 $\frac{1}{4}$ "—8.  
Width of face of bull gear and back gears: 3/4".  
Face plate diameter: 6".  
Number of spindle speeds, 12.  
Spindle speeds, back gears engaged, 45, 63, 89, 125, 177, 250.  
Spindle speeds, direct belt drive, 270, 380, 535, 753, 1060, 1500.

## CROSS SLIDE AND COMPOUND REST

Cross Slide Travel 6 $\frac{1}{4}$ ".  
Cross Slide graduated in thousandths.  
Cross feed screw mounted on self lubricating bronze bearings.  
Compound Rest Travel, 2 $\frac{1}{4}$ ".  
Compound rest graduated in thousandths.  
Compound swivel graduated 90° in both directions.  
Tool post opening for tool holder shank, 3/8" x 3/4".  
Size of cutter bits used, 1/4" square.

## COMPARE THE SPECIFICATIONS OF THE '955'

### TAILSTOCK

Spindle travel: 4".  
Spindle graduations: 1/8".  
Morse Taper center: No. 2.  
Tailstock set-over for taper turning 1 $\frac{1}{8}$ ".

### UNDERNEATH DRIVE

2 Speed "V" Motor Pulley 5/8" Bore—2 $\frac{3}{4}$ "—5 $\frac{1}{2}$ ".  
2 Speed countershaft flat pulley—7 $\frac{5}{8}$ "—9 $\frac{1}{2}$ ".  
40" x 1/2" V Belt used on flat of 2 step countershaft pulley and in V of motor pulley.  
3 Step flat belt cone pulley mounted on countershaft. Width of step face, 1".  
Countershaft mounted on ball bearings.  
Adjustable motor mounting bracket.  
Lever operated belt tension release for changing belt steps.

### MOTOR

Use 1/2 or 3/4 H.P. 1750 R.P.M. Motor.  
If lathe is ordered without motor specify:  
1. Bore of motor pulley to be furnished with lathe.  
2. State whether 0382 three phase or 0383 single phase Drum Switch should be supplied.

### OVERALL DIMENSIONS

No. 955—length, 59"; width, 21"; height, 48 $\frac{3}{4}$ ".  
No. 957—length, 70 $\frac{1}{2}$ "; width, 21"; height, 48 $\frac{3}{4}$ ".

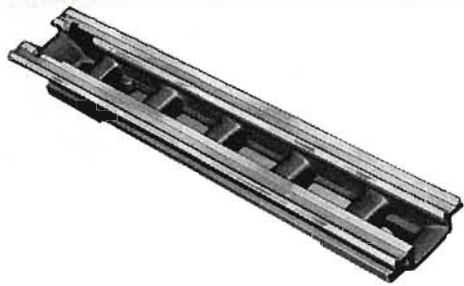
## ORDERING INFORMATION

No. 955 Logan Lathe, Pedestal Base with Underneath Drive 24" between centers, shipping wt., 790 lbs.....\$585.00  
No. 957 Logan Lathe, Pedestal Base with Underneath Drive 36" between centers, shipping wt., 850 lbs.....\$635.00



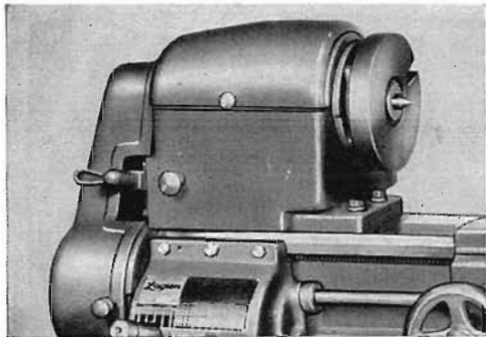
**ADVANCED DESIGN**

**CONSTRUCTION FEATURES OF THE '955'**



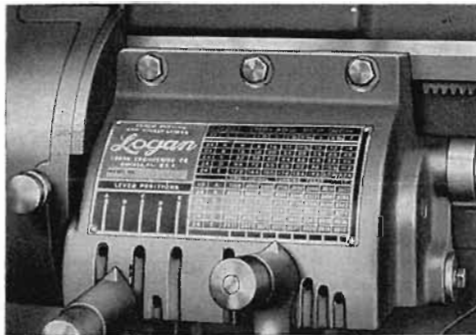
#### **RUGGED, ACCURATE BED . . .**

The special alloy castings are extra heavy, with oversize ribs to assure a truly rugged bed. Balanced sections of even thickness neutralize internal stresses. Thorough seasoning before and between machining operations makes the bed warp-free. The two V-ways and two flat ways are machined and precision ground to a tolerance of .0005" along the entire operating area.



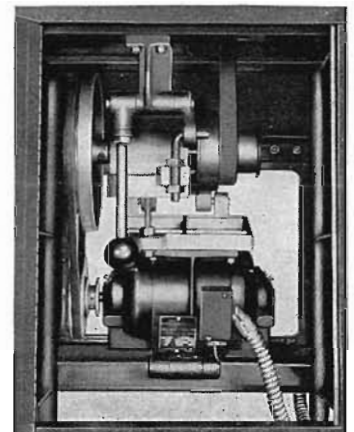
#### **BALL BEARING HEADSTOCK . . .**

The 955 spindle turns on a Precision New Departure Ball Bearing mounting that assures sustained accuracy and permits the use of high speed carbide cutting tools to full advantage. Total spindle runout is held to within .0005" twelve inches out from the front bearing. No bearing adjustment needed for any spindle speed from 45 to 1500 rpm. Another 955 feature is complete enclosure of the back gears in the headstock.



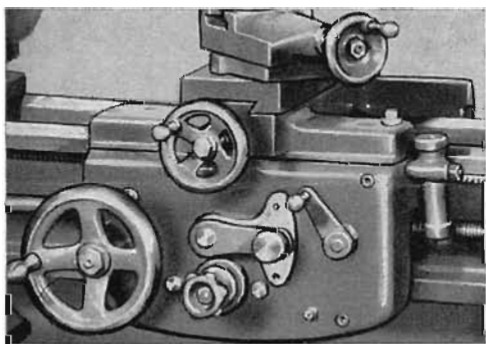
#### **QUICK CHANGE GEAR BOX**

The Quick Change Gear Box on the 955 Lathe has 48 threads and feeds in either direction. Two-lever adjustment provides for cutting screw threads from 4 to 224 per inch, and for longitudinal power feeds of .0018" to .1000" per spindle revolution. Power cross feed, .25 times longitudinal.



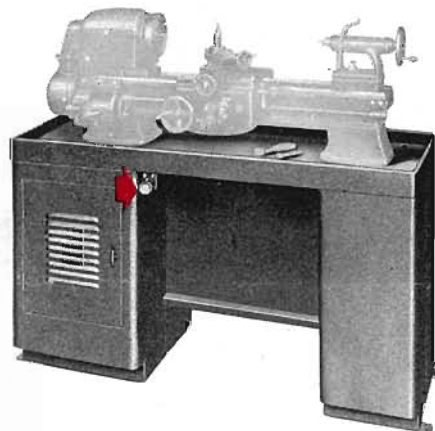
#### **BALL BEARING UNDERNEATH DRIVE**

For safety and easy belt changing, the motor drive assembly of the 955 Lathe is completely self contained and is enclosed in the left compartment. Flat belt tension is released by lever on left side of compartment. Belt tension mechanism is easily accessible. Ball bearing drive assembly transmits power to lathe spindle. Ordering motor with lathe permits shipment of lathe with motor factory mounted and adjusted in position.



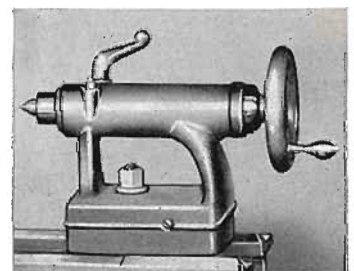
#### **AUTOMATIC APRON**

Longitudinal and cross feeds operate from spline in lead screw through worm drive and friction clutch. For thread-cutting work, an additional half nut drive from the lead screw is available. Automatic lock prevents either feed from operating while the other feed is engaged. Double wall construction, with worm and gear immersed in constant oil bath.



#### **STEEL PEDESTAL BASE**

This trim, compact steel base completely encloses the 955's underneath drive. With no protruding parts it is perfectly adapted to multiple battery installations in limited floor space. Recessed construction at floor level provides toe room for the operator and permits clean sweeping around the machine. Sturdy and rigid for solid mounting of lathe without vibration on heavy cuts. Arrow points to conveniently located drum reversing switch.



#### **TAILSTOCK**

The tailstock on the 955 Lathe has a spindle travel of 4", with graduations of  $\frac{1}{16}$ ". Fitted for No. 2 Morse taper.  $\frac{1}{16}$ " set-over for taper turning.

**LOGAN ENGINEERING COMPANY**

**4901 W. LAWRENCE AVENUE**

**CHICAGO 30, ILLINOIS**

HERE ARE TYPICAL  
*Logan* 9", 10" AND 11" LATHES AND 8" SHAPER



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