No. 830-2—Complete as shown, with pilot wheel turret and turret lock, less motor, F.O.B. Chicago, $450.00

No. 830—Same as 830-2 but with lever instead of pilot wheel on turret, and without turret lock, F.O.B. Chicago $425.00

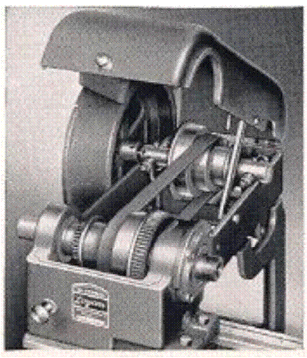
The Logan No. 830 Hand Screw Machine fills the specific need of industry for a small turret lathe to eliminate the necessity of tying up heavy equipment for turning out small parts. It is an accurate and durable tool designed for the severe requirements of present day, continuous production. The turret holes are bored from the headstock. The bed is precision ground and the precision pre-loaded ball bearing spindle mounting is the latest engineering development in design. Turret and cross slide are provided with adjustable gibs, to compensate for wear. New, heavy, hexagonal head turret assures maximum smoothness and accuracy and lengthens tool life. Hexagonal design permits mounting of tools on face of block as well as in standard bored tool hole. Pilot wheel operation permits easier and more positive control over action of cutting tools. Turret lock provides increased rigidity The machine is built throughout to rigid and exacting specifications to give accurate results and trouble-free service.

COUNTERSHAFT ASSEMBLY

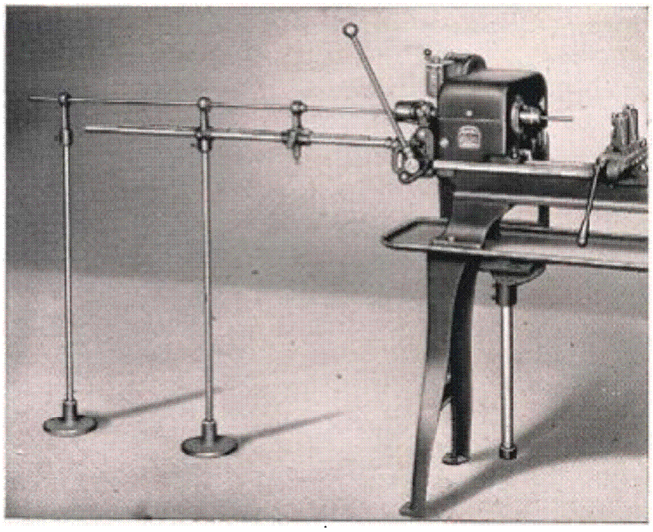
The patented countershaft assembly used in this machine is carried on a three point suspension and is completely insulated by rubber at all points of contact to prevent vibration being transmitted to the lathe. All pulleys and belts are completely guarded yet readily accessible. The entire unit is designed to appear as a streamlined part of the lathe.

BALL BEARING HEADSTOCK

When the cone pulley guard is raised as shown at right, belt tension is automatically released for quick belt change. The ball bearing spindle mounting is advanced design that is more expensive and produces finer results. New Departure grease sealed preloaded precision bearings give greater accuracy, less friction, less wear and require no adjustment or lubrication.



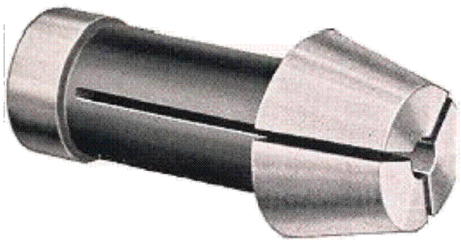
LOGAN ENGINEERING CO. • CHICAGO 30, ILL.



LOGAN BAR FEED

The Logan Bar Feed, with a maximum capacity of ⅝" round stock, is offered for use with the No. 830 or No. 830-2 Hand Screw Machines. It does not fit other models. No. AC-50 push type collets are used in sizes from 1/16" to ⅝" by 32nds. Maximum feed per stroke, 2". The patented cam action, which locks the collet and operates the bar feed, is so designed that there is no feed while bar is being locked and no locking action while bar is being fed. Feed and locking mechanism is protected by a shield, not shown in illustration. Easily attached or detached.

No. LA-32-34 Bar Feed—Shipping weight 45 lbs. **$95.00**



PUSH TYPE COLLET

Used with the Logan LA 32-34 Bar Feed shown at left. Also with Logan Collet Closers AC 210 and AC 201. A superior collet, made of alloy tool steel, correctly heat treated for maximum wear, precision ground inside and out. Sizes 1/16" to ⅝" round by 32nds. Work must be within .005" of collet size. Shipping weight, 6 oz. each.

No. AC 50—Push Type Collet $4.50

SPECIFICATIONS

CAPACITY OF LATHE

Swing over bed ..... 10½"

Swing over cross slide ..... 4½"

BED

Width of bed across ways ..... 6 15/16"

Bed length ..... 43⅜"

Precision ground ways — 2 prismatic "V" ways and 2 flat ways.

HEADSTOCK AND SPINDLE

Spindle mounted on matched, grease-sealed, pre-loaded New Departure Ball Bearings of highest precision type.

Back gear shaft bearings — self lubricating bronze bearings.

Hole through spindle ..... 25/32"

Maximum collet capacity ..... ⅝"

Spindle nose diameter and threads per in. ..... 1½"-8

Width of cone pulley steps for belt .. 1"

Width of face of bull gear and back gears ..... ⅝"

Number of spindle speeds 12

Spindle speeds, back gears engaged 30, 56, 70, 104, 131, 244

Spindle speeds, direct belt driven ... 179, 334, 420, 620, 780, 1450

Drum Type Motor Reversing Switch and Cord.

CROSS SLIDE

Maximum stroke of cross slide .... 3¼"

Adjustable double tool posts.

Tool posts equipped with adjustable wedges.

Tool post tool slots ..... 7/16" x 19/16"

TURRET

Distance across flats ..... 5¼"

Six position with adjustable stops.

Turret holes, diameter ..... ⅝"

Turret holes bored from headstock of lathe.

Maximum stroke of turret ..... 4¼"

COUNTERSHAFT ASSEMBLY (Incl. in Price of Lathe)

2 Speed "V" Motor Pulley ⅝" **Bore ..... 2⅜"-4"**

2 Speed countershaft flat pulley ..... 8⅜"-10"

51" x ½" 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 self-lubricating bronze bearings.

Adjustable motor mounting bracket furnished with countershaft assembly.

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.

OVERALL DIMENSION (Including Countershaft Assembly)

Length ..... 54"

Width ..... 30"

Height ..... 50"

SELF LUBRICATING BRONZE BEARINGS

at 12 separate points in lathe where plain bearings are ordinarily furnished.

MOTOR

Use ½ 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 0636 or 0639 Drum Switch should be supplied. (See Accessory Circular for description of drum switch.)

SHIPPING WEIGHT

No. 830-2 Hand Screw Machine, less **motor ..... 550 lbs.**