

This Mark identifies the Product of America's Largest Producers of High Grade Engine Lathes

Details and Specifications

Type "C"

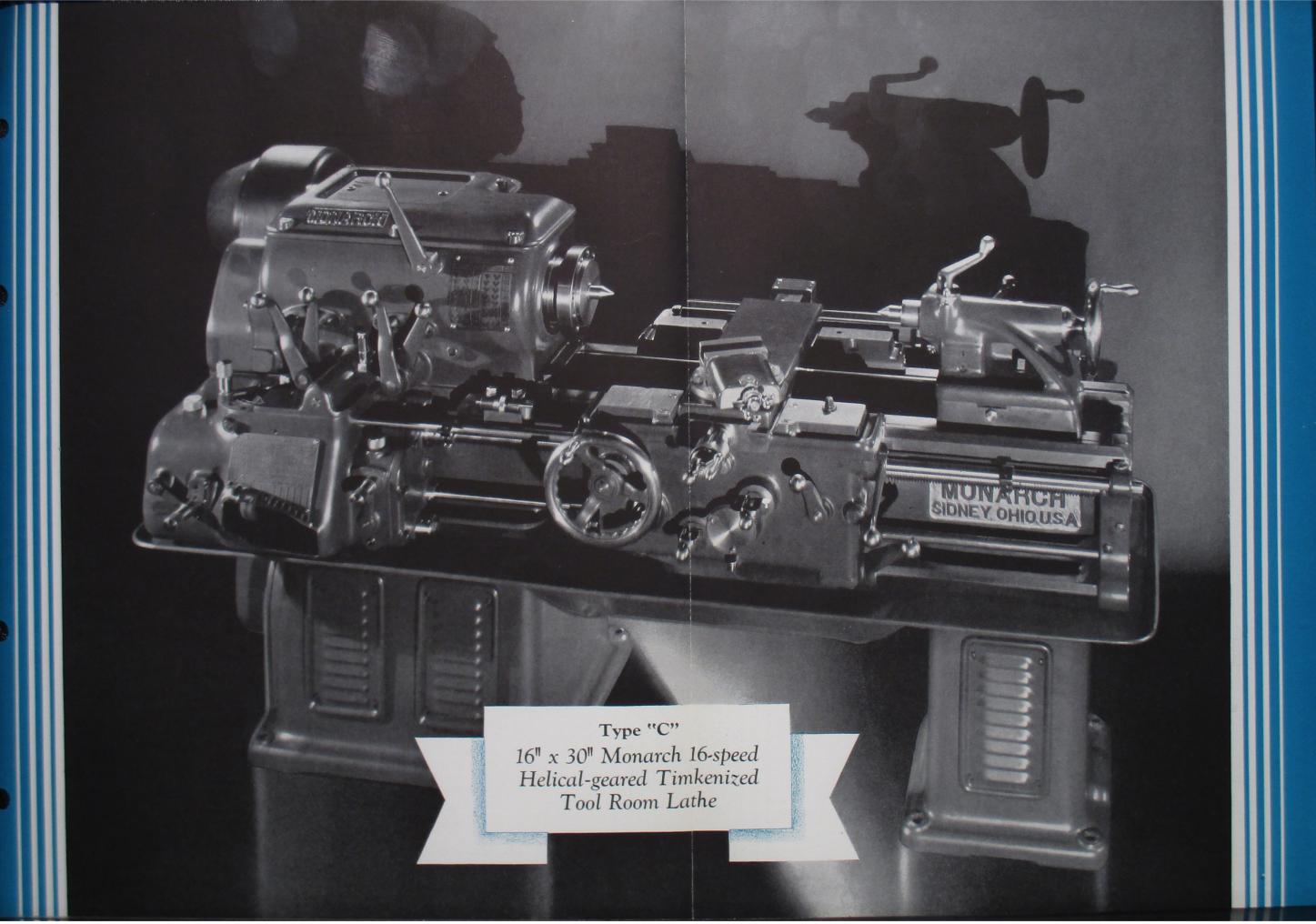
16" Helical-geared 16-speed Timkenized Tool Room Lathe

CODE WORD "DELU"

THE MONARCH MACHINE TOOL COMPANY

SIDNEY, OHIO, U. S. A.

New York Sales Office: 413 Graybar Bldg. Chicago Sales Office: 622 W. Washington Blvd.





16"x 30" Monarch Type "C" 16-speed Helical-geared Timkenized Tool Room Lathe

Swing over bed
Range of threads per inch, quick change $\begin{cases} 1 \text{ to } 60 \text{ or } \\ 2 \text{ to } 120 \end{cases}$
Range of feeds per inch, quick change. \(\begin{align*} .0025 to .150 or .00125 to .075 \end{align*} \) Number of thread and feed changes, regular quick change. \(60 \) Headstock base length. \(27\fmu'' \) Tailstock base length. \(12\fmu'' \) Tailstock, spindle diameter. \(2\fmu'' \) Tailstock, spindle traverse and setover. \(5\fmu'' \) Steady rest opening, regular. \(5'' \) Maximum capacity oversize steady rest we can furnish. \(7'' \) Carriage length. \(25'' \) Carriage length. \(8'' \) Compound rest top slide travel. \(3\fmu'' \) Size of lathe tool. \(5\fmu'' \) Motor, size recommended. \(5, 7\fmu' \) or 10 HP Motor, constant speed, recommended. \(1150 \) R.P.M. Distance, spindle center to floor. \(44'' \)
Speed of geared head driving pulley. 500 R.P.M. Geared head driving pulley, diameter, face. 12" x 434" Width of bed 1634" Depth of bed 12" Length between centers 30", 54", 78" 102" and 126"

Maximum collet capacity, bar type	116"
Maximum collet capacity, bar type	
Maximum diameter of work which can be	
relieved	
Maximum amount of relief	1/11

Actual number of flutes that can be relieved: 2, 3, 4, 5, 6, 7, 8, 10, 12, 14 and 16.

Thread cutting range: 1, 1½, 1¾, 1¾, 1¼, 1¾, 1¼, 1¼, 1½, 1½, 1½, 1¾, 1¾, 1¼, 1, 1¾, 1½, 2, 2¼, 2¾, 2½, 2¾, 2½, 2¾, 2½, 3, 3¼, 3¼, 3¼, 3¾, 5, 5½, 5¾, 6, 6½, 7, 7½, 8, 9, 9½, 10, 11, 11½, 12, 13, 14, 15, 16, 18, 19, 20, 22, 23, 24, 26, 28, 30, 32, 36, 38, 40, 44, 46, 48, 52, 56 and 60.

Metric thread range: 1/8 MM pitch to 13 MM pitch.

Spindle speeds obtained with driving pulley operated at 500 R.P.M.: 12, 15, 19, 25, 31, 41, 52, 68, 84, 110, 140, 180, 225, 292, 375 and 487.

REGULAR EQUIPMENT consists of face plate, dog plate, steady rest, compound rest, centers, chasing dial, chasing stop, lead screw reverse, oil pan and wrenches. Equipped with automatic force feed lubrication to carriage, bed ways, compound rest and apron.

MOTOR DRIVE is thru either silent chain or multiple "V" ropes as preferred. Motor is mounted inside headstock leg.

ACCESSORY EQUIPMENT which can be furnished includes: All styles of tool rests (see special bulletin showing all these accessories). Taper attachment. Chuck plates. Follow rest. Carriage spacing attachment. Ball turning rest. Relieving attachment. Tool cabinet, pyramid for holding chucks, rests, etc. Subheadstock for chasing coarse leads. Electrical apron control in addition to mechanical apron control. (See special bulletin illustrating all tool room accessories).

Exclusive Features

Helical headstock gears . . . only 14 gears in headstock . . . high carbon alloy steel, heat treated, hardened and lapped; silent, smooth transmission of power . . . no gear tooth marks on work.

Sixteen spindle speeds with only 14 gears; speed changes made by double jawed clutches sliding on splined shafts, by means of four levers on front of headstock. Impossible to engage conflicting gear ratios and no interference devices necessary. Extreme simplicity, rigid construction, nothing to get out of order.

Spindle and headstock shaft bearings are Timken, giving greater rigidity, greater precision, greater production without chatter, longer life, and greater power economy. Oiling by splash system. A cascade of oil floods every working part in headstock.

Multiple disc driving clutch with brake, operated both from headstock and apron.

Headstock oil tight. No gears, oil tubes or other mechanism in top cover plate.

Equipped with automatic force feed lubrication to carriage, bed ways, compound rest and apron.

Apron is box type casting, all high carbon steel stub tooth gears and shafts, and is equipped with the Monarch patented eccentric ball feed control levers. All bearings are anti-friction, automatically oiled.

All quick change gear box bearings are Timken. Bearings in end gear train are Hyatts.

We guarantee every Monarch Lathe to give complete satisfaction to the purchaser

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