

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

Details and Specifications

Type "KK"

12" Helical-geared 8-speed Timkenized Lathe

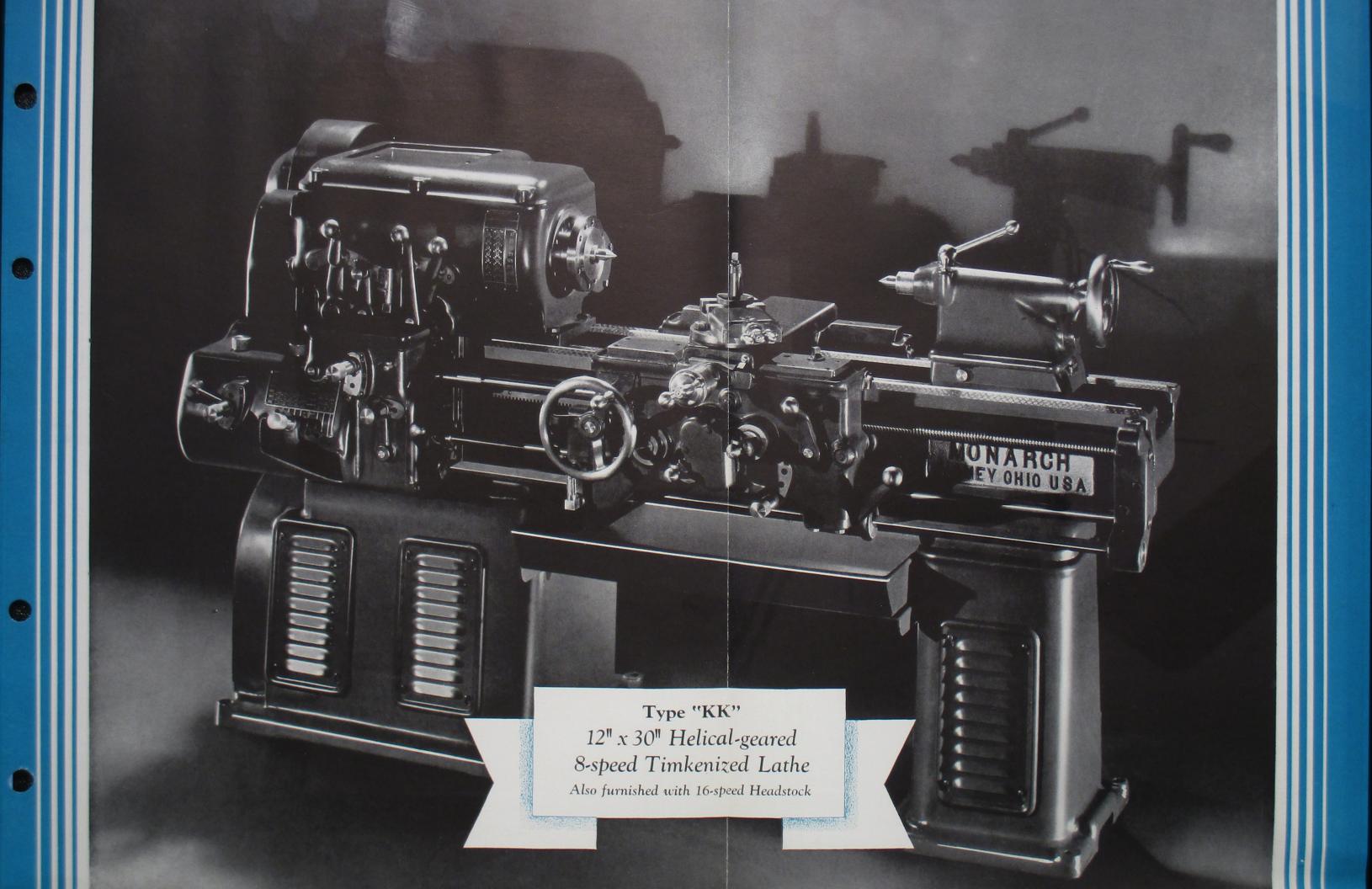
Also Furnished with 16 Spindle Speeds

CODE WORD "KLIX"

THE MONARCH MACHINE TOOL COMPANY

SIDNEY, OHIO, U.S.A.

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





12" x 30" Monarch Type "KK" 8-speed Helical-geared Timkenized Lathe

Swing over bed, Swing over cross slide.	14½" 8¼" 30"	
The state of the s	2011	
Takes between centers, tailstock flush		
Takes between centers, tailstock overhung.	34"	
Base length, shipping weight, without motor.	2800 lbs.	
Weight extra two feet	250 lbs.	
Hole through spindle		
Tible through spindie	1/16	
Front spindle bearing Prec	ision Timken	
Rear spindle bearingPrecision Timken		
Center Morse taper		
Spindle nose, standard flange type	61/4"	
Lead screw diameter and threads per inch.	11/4"-4 thd	
Range of threads per inch, quick change		
Range of feeds per inch, quick change		
Number of thread and feed changes, regular	.001 00 .010	
quick change	48	
Undet change		
Headstock base length.		
Tailstock base length		
Tailstock, spindle diameter	13/4"	
Tailstock, spindle traverse and set-over	51/2"-1/2"	
Steady rest opening, regular	41/2"	
Maximum capacity oversize steady rest we		
can furnish	7"	
Carriage length	203/4"	
Carriage bridge width	6"	
Compound rest top slide travel	31/4"	
Size of lathe tool	1/2" x 1/8"	
Motor, size recommended	3 to 5 H.P.	
Motor, constant speed recommended	1150 R.P.M.	
Distance, spindle center to floor	41"	
Speed of geared head driving pulley	565 R.P.M.	
Geared head driving pulley, diameter, face.	9" x 31/8"	
Width of bed		
Depth of bed	91/2"	
Length between centers		
Maximum collet capacity, bar type	15/6"	
and suprairies, and as positions	. 10	

Maximum collet capacity, spindle nose 14" thru spindle.	type,	134"	and
Maximum diameter of work which can relieved.			
Maximum amount of relief		"	

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

Actual threads cut with quick change bear box: 1½, 1¾, 1¾, 1¾, 2, 2¼, 2½, 2¾, 2½, 2¾, 3¾, 3¾, 4, 4½, 5, 5½, 5¾, 6, 6½, 7, 8, 9, 10, 11, 11½, 12, 13, 14, 16, 18, 20, 22, 23, 24, 26, 28, 32, 36, 40, 44, 46, 48, 52, 56, 64, 72, 80, 88 and 92.

Metric thread range: 7/32 MM pitch to 13 MM pitch.

Spindle speeds obtained with driving pulley operated at 565 R.P.M. with 16-speed headstock: 13, 17, 22, 29, 35, 46, 59, 77, 94, 125, 158, 207, 250, 330, 418 and 550,

Spindle speeds obtained with driving pulley operated at 565 R.P.M. with 8-speed headstock: 17, 29, 46, 77, 125, 207, 330 and 550.

REGULAR EQUIPMENT consists of face plate, dog plate, steady rest, compound rest, centers, chasing dial, patented quick-chasing stop and wrenches. Equipped with autometic 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. Electrical apron control in addition to mechanical apron control.

Exclusive Features

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

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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