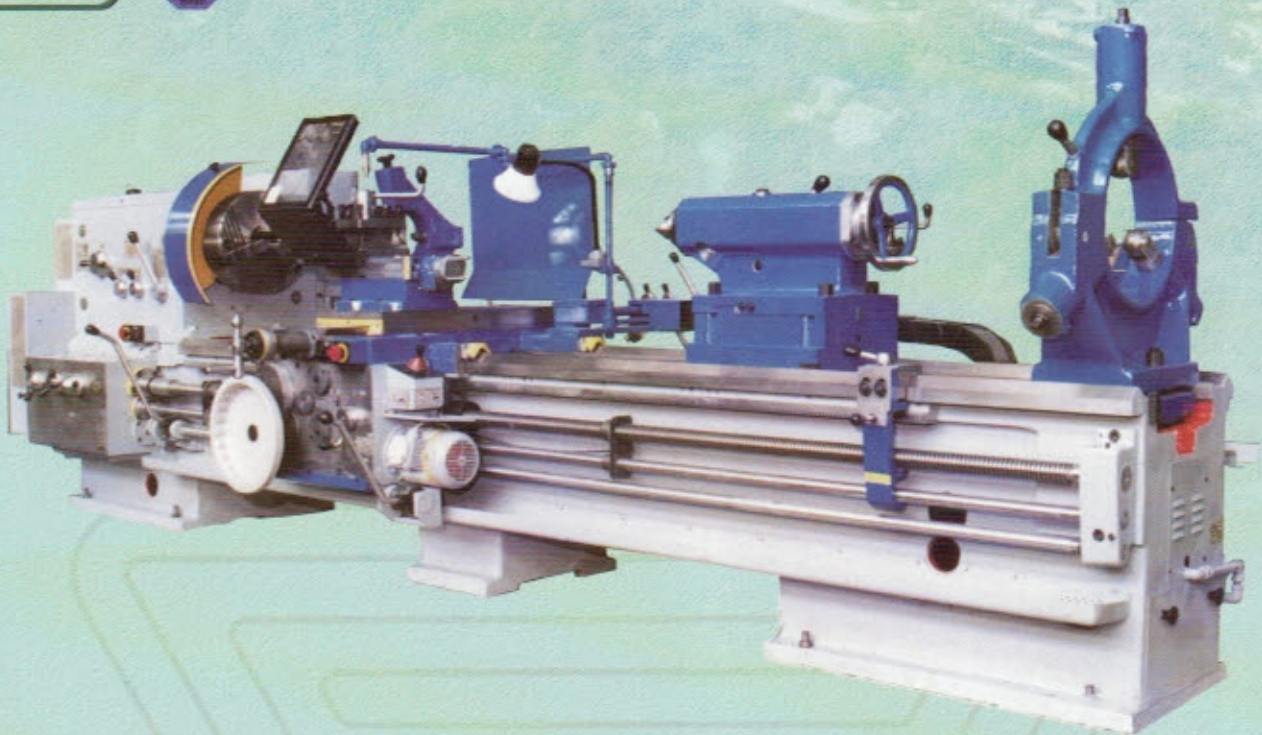




# RYAZAN MACHINE TOOL WORKS



## ENGINE LATHE MODEL 16K40



The lathes are designed for various turning operations, including taper cutting and thread cutting (metric, Whitworth, modular, pitch threads). High main drive power and rigid bed combined with wide range of spindle speeds ensure usage of high-end cutting tools for machining various materials.

### Design features:

- Rigid, vibration-proof and temperature-resistant structure allows of high machining accuracy
- Accuracy stability and long working life of the lathe are ensured by the two prismatic bed ways and other components' high reliability
- Long taper turning is done by simultaneous longitudinal feed of the carriage and cross feed of the slide swiveled at a desired angle
- All kinematics gears are made of alloy steel, hardened and ground
- Chuck and cutting area protective screens as well as electrical and mechanical lockouts ensure safe operation
- Carriage is designed with guide ways of its own.

The model can be built with distance between centers as long as 10 meters for machining big pieces. The lathes may be equipped with special grinding devices for finish machining cylindrical and taper surfaces.



# Engine lathe model 16K40

## Technical features

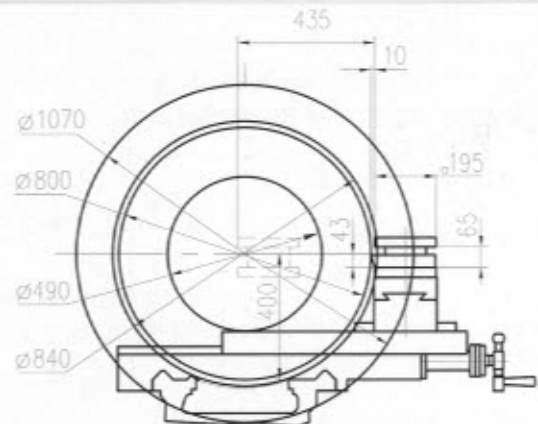
Swing over bed	33,1" (840 mm)
Swing over carriage	19,3" (490 mm)
Maximal diameter machined over bed	31,5" (800 mm)
Maximal diameter machined over carriage	19,3" (490 mm)
Range of workpiece lengths	29,5" ... 393,7" (750,1500,2000,3000,4000,5000,8000,10000 mm)
Maximal workpiece weight	7700 lbs (3500 kg)
Height of cutting tool	1,6" (40 mm)
Spindle bore	4,1" (105 mm)
Tailstock spindle inner taper	Metric 115
Spindle speed range	10 - 1250 (2000) rpm
Carriage working feed range:	
Lengthwise	0,001 - 0,22"/rev (0,033 - 5,6 mm/rev)
Crosswise	0,0005 - 0,08"/rev (0,013 - 2,064 mm/rev)
Tool slide	0,0004 - 0,08"/rev (0,013 - 2,064 mm/rev)
Carriage rapid travel:	
Lengthwise	204,7"/min (5200 mm/min)
Crosswise	78,7"/min (2000 mm/min)
Cut threads range:	
Metric	0,04 - 8,82" (1-224 mm)
Whitworth, T.P.I.	28-0,25
Modular, module	0,25-56
Pitch	112-0,5
Number of spindle speeds	22
Maximal spindle torque	2213,3 ft lbs (3 kNm)
Main drive power	25 HP (18,5 kW)
Overall dimensions:	
Length	118,1" ... 488,9" (3000...12420 mm)
Width	73,2" (1860 mm)
Height	63,9" (1625 mm)
Lathe weight	9810,5 ... 29321,3 lbs (4450...13300 kg)
Width of the bed (by guide-ways)	22" (580 mm)

### Standard accessories:

- steady rest diam. 0,8-13,8" (diam. 20-350 mm)
- follow rest diam. 0,8-5,9" (diam. 20-150 mm)
- 4-jaw chuck diam. 24,8 or 31,5" (630 or 800 mm)
- 3-jaw chuck diam. 16" (400 mm)

### Options:

- steady rest diam. 0,8-6,3"; diam. 11,8-19,7" (diam. 20-160 mm; diam. 300-500 mm);
- thread indicator;
- taper turning attachment;
- tool post with quick changeable blocks;
- V-type shoes, anchor bolts.



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