



16" x 6' Monarch Motor Drive Lathe

Dimensions and Specifications of 16 in. x 6 ft. Monarch Motor Drive Lathe

Swing over bed.....	16 $\frac{1}{4}$ "
Swing over carriage.....	11 $\frac{3}{4}$ "
Takes between centers, tailstock flush.....	2' 7 $\frac{1}{2}$ "
Takes between centers, tailstock overhung.....	3' 1"
Base length.....	6'
Base length shipping weight.....	2050 lbs.
Weight extra two feet.....	150 lbs.
Hole through spindle.....	1 $\frac{5}{16}$ "
Front spindle bearing.....	2 $\frac{1}{2}$ " x 5"
Rear spindle bearing.....	2 $\frac{1}{8}$ " x 4 $\frac{1}{16}$ "
Center Morse taper.....	No. 3
Spindle nose, diameter and threads per inch.....	2 $\frac{1}{4}$ "—8 thd.
Back gear ratio, double.....	3 : 1 and 8 : 1
Lead screw diameter and threads per inch.....	1 $\frac{1}{4}$ "—4 thd.
Range of threads per inch, quick change.....	3 to 46
Range of feeds per inch, quick change.....	7 $\frac{1}{2}$ to 115
Number of threads and feed changes, regular quick change.....	32
Thread cutting range, semi-quick change.....	3 to 46
Range of feeds per inch, semi-quick change.....	7 $\frac{1}{2}$ to 115
Headstock base length.....	22 $\frac{3}{4}$ "
Tailstock base length.....	10 $\frac{1}{2}$ "
Tailstock, spindle diameter.....	1 $\frac{3}{4}$ "
Tailstock, spindle traverse and setover.....	6 $\frac{3}{4}$ "—7 $\frac{1}{8}$ "
Steady rest opening, regular.....	4 $\frac{1}{4}$ "
Maximum capacity oversize steady rests we can furnish.....	6 $\frac{1}{2}$ "
Carriage length.....	24"
Carriage bridge width.....	6"
Compound rest top slide travel.....	4 $\frac{1}{8}$ "
Countershaft friction pulleys, size.....	10" x 3"
Countershaft speed.....	200 R.P.M.
Size of lathe tool.....	$\frac{5}{8}$ " x 1 $\frac{3}{8}$ "
Motor, size recommended ordinary service.....	2 H.P.
Motor, constant speed, recommended.....	1150 R.P.M.
Motor, variable speed, recommended.....	500—1500 R.P.M.
Distance, spindle center to floor.....	42 $\frac{3}{4}$ "
Speed of geared head driving pulley.....	300 R.P.M.
Geared head driving pulley, diameter, face.....	10" x 3"
Width of bed.....	12"
Depth of bed.....	11"
Length of bed, 5', 6', and in multiples of 2 feet up to.....	14'
Maximum collet capacity.....	1 $\frac{5}{16}$ "
Maximum diameter of work which can be relieved.....	6"
Maximum amount of relief.....	$\frac{9}{32}$ "
Actual number of flutes that can be relieved: 3, 4, 5, 6, 7, 8, 10, 12 and 14.	
Actual threads cut with full quick change gear box and semi-quick change gear box: 3, 3 $\frac{1}{4}$, 3 $\frac{1}{2}$, 4, 4 $\frac{1}{2}$, 5, 5 $\frac{1}{2}$, 5 $\frac{3}{4}$, 6, 6 $\frac{1}{2}$, 7, 8, 9, 10, 11, 11 $\frac{1}{2}$, 12, 13, 14, 16, 18, 20, 22, 23, 24, 26, 28, 32, 36, 40, 44 and 46.	
Spindle speeds obtained on geared head lathe with driving pulley operated at recommended speeds: 26, 38, 60, 83, 116, 169, 268 and 375.	
Spindle speeds obtained on simplified motor drive lathe, using motor recommended above: 18, 28, 45, 50, 80, 120, 135, 220 and 346 R.P.M.	
Regular equipment consists of face plate, dog plate, steady rest, compound rest, centers, chasing dial, chasing stop, wrenches.	

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