

Circular No. 24-3

16-24-inch General Purpose Lathe—Series "T" Countershaft Driven Type

The 16-24-inch General Purpose Lathe is a practical tool for machining large diameter work that is not excessively heavy, and is popular for use in tool and die shops, manufacturing plants, machine shops and general repair shops. This lathe is the same as the 16-inch lathe shown on page 19, except that the height of the center is increased by the use of raising blocks. See specifications on page 80.

This Lathe is popular for the small general shop that must be equipped to take care of a wide variety of work. The increased swing over the lathe bed and carriage permits machining work that would otherwise require a much larger and heavier lathe. The raising blocks are substantially constructed and permit taking cuts as heavy as could be taken on the same lathe without raising blocks.

Regular Equipment included in price of this lathe consists of: reversing countershaft with two friction clutch pulleys; large and small face plates; forged steel heat-treated tool post; adjustable thread cutting stop; tool steel centers for headstock and tailstock spindles; headstock spindle sleeve; wrenches; quick change gear box or set of independent change gears; installation plan and Instruction book, "How to Run a Lathe."

Quick Change Gear 16-24-inch Countershaft Driven Lathes

Bed Length	6-ft.	7-ft.	8-ft.	10-ft.	12-ft.	
Distance Between Centers	30-in.	42 in.	54-in.	78-in.	102-in.	
Catalog Number	98-C	98-D	98-E	98-G	98-H	
Shipping Weight of Lathe	2035 lbs.	2115 lbs.	2195 lbs.	2355 lbs.	2505 lbs.	
Code Word	Totab	Totef	Toton	Totop	Totuv	

Standard Change Gear 16-24-inch Countershaft Driven Lathes

Bed Length	6-ft.	7-ft.	8-ft.	10-ft.	12-ft.
Distance Between Centers Catalog Number Shipping Weight of Lathe Code Word	30-in.	42-in.	54-in.	78-in.	102-in.
	57-C	57-D	57-E	57-G	57-H
	2000 lbs.	2080 lbs.	2160 lbs.	2320 lbs.	2470 lbs.
	Tonay	Tonec	Tonig	Tonom	Tonus

All Page References Apply to Catalog 100



Specifications of 16-24-inch General Purpose Lathes

Applying to all 16-24-inch Lathes Shown on Pages 81 to 83

All types of 16-24-inch swing lathes shown in this catalog are identical in workmanship, material and quality, having similar headstock, tailstock, carriage and bed. The only difference between the various models of lathes is in the type of drive and the equipment supplied.

Capacity	of Lathe Swing over bed and saddle wings. 24½ Swing over saddle with chip guard removed 19¾ Swing over saddle with chip guard . 19″
Threads	Thread cutting range Quick change gear lathe—48 threads R.H. or L.H. Standard change gear lathe—47 threads R.H. or L.H. Quick change gear lathe—47 threads R.H. or L.H. Quick change gear lathe—24 feeds R.H. or L.H. Quick change gear lathe—24 feeds R.H. or L.H. Standard change gear lathe—29 feeds R.H. or L.H. Quick change gear lathe—29 feeds R.H. or L.H. Quick change gear lathe—29 feeds Standard change gear lathe—24 feeds Standard change gear lathe—24 feeds Standard change gear lathe—29 feeds Standard change gear lathe—29 feeds Size of lead screw, diameter and threads per inch
Headstoc	k
	Hole through spindle
Compour	ad Rest Cross slide will travel
Tool Post	Size of opening for tool holder shank. Size of cutter bits tool holder takes. 58" x 138" Size of cutter bits tool holder takes.
Tailstock	Size of Morse taper centers. Spindle travel. Each graduation on tailstock spindle advances spindle Tailstock top will set over for taper turning. No. 3 53/" 1"
Motor	
	Horsepower of standard motor used on 16-24-inch motor driven lathes 1 R.P.M. of standard motor for underneath motor driven lathe 1150 R.P.M. of standard motor for pedestal motor driven lathe 1725 Number of V-belts used 3
Counters	haft 180 Speed in R.P.M. of shaft. 180 Size of pulleys. 10" x 35%"
Taper At	tachment (telescopic type) Maximum length turned in one setting
Metric La	athe Specifications
	Applying only to lathes with metric lead screw and metric graduations. See pages 108 to 110. Quick change gear lathe cuts 46 threads R.H. or L.H. 7.5 mm to 0.2 mm Standard change gear lathe cuts 35 threads R.H. or L.H. 7.0 mm to 0.2 mm Lead screw pitch. 4.0 mm Cross feed screw pitch. 3.0 mm Compound rest feed screw pitch. 3.0 mm Each graduation on cross feed micrometer collar advances tool 0.02 mm Each graduation on tailstock spindle advances spindle. 1.0 mm
	For description of lathe features see pages 6 to 11