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# How To Run A Lathe: For The Beginner: How To Erect, Care For And Operate A Screw Cutting Engine Lathe

How to  
Run a  
Lathe

SOUTH BEND  
LATHE WORKS



## Synopsis

This classic work, which contains 62 diagrams and illustrations, is organized as follows: Layout of a Small Machine Shop Horse Power Ordering Repair Parts Number and Name of Lathe Parts on Drawing Improved Reverse The New Lathe Location of Lathe Size of Lathe Setting the Lathe in Position Leveling Lathe Belting Rules for Calculating the Speed and Size of Pulleys Speed of Lathe Countershaft Oil the Lathe Every Day Starting Lathe Carriage Face Plate Lathe Centers Direction of Feed With a Job on Centers Centering Countersinking a Shaft Drill and Countersink Improper Centering Proper Countersink Drill and Countersink Combined Turning a Steel Shaft A Shaft in the Center Best Forged Steel Lathe Tools Lathe Tools Knurling in the Lathe Position of Cutting Edge of Tool Grinding the Tool Facing End of Shaft Standard Screw Threads Measuring Screw Threads Thread Cutting Change Gears for Thread Cutting Thread Cutting Index Plate Compound Gearing Compound Gearing Setting of Thread Tool The First Chip (Thread Gutting) Grinding Tool After Thread Has Been Started Turning Taper Taper Attachment for South Bend Lathes Truing a Valve Grinding Attachments for Lathe Suggestions on Emery Wheel Table of Grinding Wheel Speeds Drilling and Facing on the Engine Lathe Using the Lathe as a Drill Press South Bend Milling and Key-Way Cutting Attachment for Lathes Squaring a Steel Shaft in the Lathe Key Seating Wood-Ruff System Keyseating a Steel Shaft Standard Key-Ways for Pulleys and Shafts Boring in the Lathe 16-Inch Lathe Boring a 30-Inch Fly Wheel Principal Dimensions of South Bend Gap Lathes Raising Blocks How to Temper a Lathe Tool How to Anneal a Piece of Tool Steel Case Hardening Using a Reamer in the Lathe Information on Gears The Cutting Speed for Different Metals Rule for Gearing Up Engine Lathes for Screw Cutting Gear Guards for South Bend Lathe How to Anneal Brass or Copper How to Braze Fitting Chucks to the Lathe Size of Lathe Chucks for a Lathe Metric Threads on an English Lead Screw Making a Piston Ring No. 34 13-Inch Swing South Bend Screw Lathe Making a Ball Race and Cone No. 37 15-Inch South Bend Lathe No. 40 16-Inch South Bend Lathe Don'ts for Machinists

## Book Information

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## Customer Reviews

This is a reprint of the original 1930's lathe manual, including old-style drawings and plans. The instructions are clear, and common-sense, and tell the new South Bend lathe owner how to set up the lathe, and basic operations. The terminology and vernacular is definitely Old School. I enjoyed reading it, because it took me back to another time. If you need in-depth instruction on lathe operation, or complicated projects, then this won't do. It's a basic lathe manual, but no shop is complete without it.

This book has been around a few days, but it still contains a ton of valid info for the newcomer and old timer alike. Definitely worth the price and the shipping was free with Prime. Wheelchair Bob

I purchased this to replace the copy I purchased from Lindsay Books many years ago (loaned it out). This is a much earlier reprint than the version sold by Lindsay. It contains much of the same information; however, I prefer the editions from the 30's - 50's, while this one is from 1919?. Even this edition is better than most other similar books; however, the later/better editions are also still available from other sellers.

This is a reprint of a very old manual for South Bend Lathes. As a new comer to lathe work, I wanted to start with the basics so I bought this book based on reviews here. I also bought other books. This book has layouts on how to use things other than electrical motors directly connected to the lathe to turn it (think large belt and pulley system used around the turn of the 20th century and

on). It even describes how to use a gasoline engine to turn the belt system. Those things aren't really useful in this day and age, but were informative. I suggest a new comer who just wants to know how to use a modern lathe, skip this book and start with: How to Run a Lathe: The Care and Operation of a Screw Cutting Lathe Paperback â€” September 11, 2013 by John Joseph O'Brien (Author), Miles William O'Brien (Author), South Bend Lathe Works (Author)[http://www..com/gp/product/1614274746/ref=oh\\_aui\\_detailpage\\_o08\\_s02?ie=UTF8&psc=11](http://www..com/gp/product/1614274746/ref=oh_aui_detailpage_o08_s02?ie=UTF8&psc=11) is an older and basic text that pays homage to the old ways, but is more pertinent to today's home garage lathe worker.

Very average. From the description I expected no assumptions, only to find large gaps and assumptions. I had intended to recommend it as a resource for students but it is not suitable. It would not provide adequate knowledge to the self learner IMO, but could provide limited support to someone who is attending a class and has a resource person to fill in the gaps.

I bought this at the recommendation of David Gingery of the "Build Your Metal Working Shop From Scrap" series. Like Dave said in the book. Don't operate a home lathe without one.

Contained everything I was looking for. Lots of detail and great pictures. I would recommend it to anyone wanting to know how to operate a lathe.

This book is good for the beginner. It gives you simple things to build and old school ways of doing machining.

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