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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 Guttering)
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
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 1/3-Inch Swing South Bend Screw Lathe
Making a Ball Race and Cone
No. 37 1/15-Inch South Bend Lathe
No. 40 1/16-Inch South Bend Lathe
Don'ts for Machinists

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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 enging to turn the belt system. Those things aren't really usefull 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=1ts 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 knowlege to the self learner IMO, but couls 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 reccomend it to anyone wanting to know how to operate a lathe.

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

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