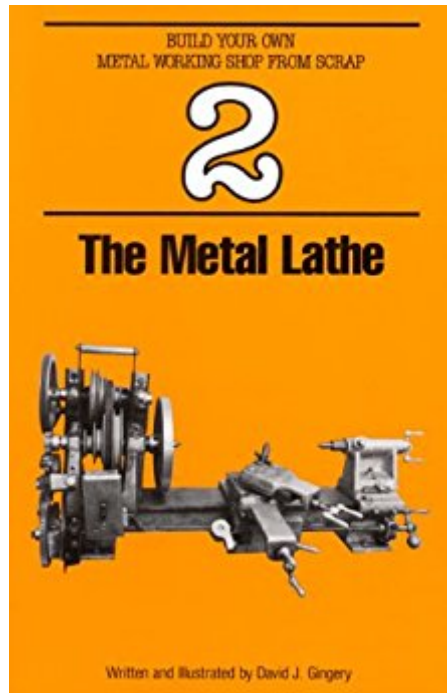


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The Metal Lathe (Build Your Own Metal Working Shop From Scrap Series Book 2)



Synopsis

Using castings from the charcoal foundry and simple hand methods you can build a sturdy and accurate bed for a metal lathe. Then additional castings, common hardware items and improvised equipment will add the headstock, tailstock, carriage and all the remaining parts to complete the lathe. Illustrated with photos and drawings to show you all you need to know about patterns, molding, casting and finishing the parts. The lathe specs. include a 7" swing over the bed and 12" between centers. Adjustable tailstock with set-over for taper turning. Adjustable gibs in sliding members and adjustable sleeve bearings in the headstock. A truly practical machine capable of precision work. Once you have a foundry to cast the parts and a lathe to machine them you can tackle more exotic projects.

Book Information

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Customer Reviews

More than anything else, this book and its predecessor have taught me how raw metal becomes productive machinery. It's difficult to imagine a better education in machinery than building your own lathe, or at least thinking about it. I strongly recommend this book to aspiring or novice

machinists. However, this book is not without shortcomings, and I worry that other reviewers have not adequately guided reader expectations. This book does not introduce the lathe. It does not explain lathe terminology. It does not explain lathe accessories. It does not explain lathe operation. It does not explain ancillary tools and skills. It does not explain the properties of materials involved. The reader needs to have prior knowledge of these things. Furthermore, unless the reader is fortunate enough to live near one of the world's industrial centers, and down the street from a junkyard, the fabrication of a lathe may not be a cheap affair, as the author implies. In many cities or countries it is now difficult to obtain scrap metal, tools, and materials. The book jacket, and other reviewers of the book, suggest that the reader will require only basic hand tools to build the lathe. Unfortunately, what were once considered basic hand tools are becoming scarce. Machinist grade drill bits, taps, dies, reamers, and tapping fluid are neither widely available, nor inexpensive, in many parts of the world. Weak demand for these items has made them somewhat costly and rare, even in industrialized nations. While some of the required tools may be found in common hardware stores, the quality of tool may be so poor as to make the buyer wonder if he will have to make those, himself, too! Having been written in the U.S.

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