Milling Machine: Build Your Own Metal Working Shop from Scratch, Book Four

David J. Gingery
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#7619604 in Books David J Gingery 1981-06Original language:EnglishPDF # 1 8.50 x 5.75 x .75l, #File Name: 0960433031 | File size: 74.Mb

David J. Gingery : Milling Machine: Build Your Own Metal Working Shop from Scratch, Book Four before purchasing it in order to gage whether or not it would be worth my time, and all praised Milling Machine: Build Your Own Metal Working Shop from Scratch, Book Four:

8 of 8 people found the following review helpful. Another great Gingery book!By Travis ZeeIn this book Gingery steps you through building your own table top sized milling machine and cutters to go with it. This is a great book for any person that would like to cast their own machine shop. Once you have completed building the milling machine, many of the tasks in Gingery's book (like hand scrapping surfaces flat) will be reduced down to a 15 minute job. This is a very versatile machine that will speed up your current working pace and allow you to tackle tasks that before would have been impossible. I would suggest that you make sure you also have Gingery's book on building a metal lathe because he uses the lathe to make many of the parts for the milling machine.5 of 6 people found the following review helpful. Good book on a useful machineBy C. ToombsThis, like the remainder of the series, is a good book on building the particular item. It gives step by step detail on building the milling machine and requires no specialized tools that you can't make yourself. It does use the lathe from the first book and the shaper would be helpful as well, as the series is meant to be done in order. The layout of this milling machine is something you will not find in a commercial machine of this size. It is laid out as a Lincoln mill, but looks closer to a horizontal boring machine. This machine would give more and different capability than one of the readily available Chinese mini mills, so even if you

have one of those this would be a worthwhile build. It could even be used for lathe type work. As with the remainder of the Gingery books, it gives step by step details on both construction and techniques for building the mill, and gives youre mind some stimulation in the design and building departments. You can do a web search and find many examples of this machine built and operating, some which are highly modified. There is also a Yahoo Group devoted to the Gingery machines if you need further inspiration. I actually plan on building a machine inspired by this one, but to a larger scale and incorporating CNC.0 of 0 people found the following review helpful. Five StarsBy woolybulgood info

The design is especially planned for the developing home shop with limited equipment. There is still no need to look for help in custom machine work. The charcoal foundry will furnish the castings, and you can machine them on your home made lathe and metal shaper. The miller itself will do some of the machine work on its own parts.Extremely rigid in construction, its lathe like characteristics make it very versatile. Included accessories make it possible to do large diameter turning, boring, and facing operations, and it can make its own cutters and holders.The work table is 2 3/8 inch x 12 inch, with a 3/8 inch "t" slot, and it travels a full 12 inches. The carriage travels 6 1/2 inch in line with the spindle with the tail stand in use, and 8 1/2 inches with it cleared away.The spindle center can be raised as much as 6 inches above the work table, and the transmission is designed to follow the vertical travel of the spindle without changing the belt tension. There are eight speeds in two ranges, from 43 RPM to 2430 RPM.There is more detail then the lathe and shaper, but we are still using the same simple methods. All of the castings are within the capacity of the charcoal foundry, using the one quart pot, and there are detailed instructions for machining the parts. Additional discussion on patterns and molding bring the project within the ability of a novice. You really can build it in your own shop at home.