



# The modern machinist; a practical treatise on modern machine shop methods ...

*John T. Usher*

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## **The modern machinist; a practical treatise on modern machine shop methods ...** John T. Usher

This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1896 Excerpt: ...as that mentioned above, when the cutter-head is on the inside of the hole that is being bored, if such adjustment is required. A feature not possessed by any other cutter-head of which we have any knowledge. BORING BARS FOR BORING SPHERICAL HOLES. Some builders of engines and other machinery employ on certain parts of their machines a form of bearing or joint termed "swivel bearings or joints," the object of which is to prevent any undue cramping of the shafts or wrist pins in the bearings or boxes, arising from a possible disturbance in the alignment of the parts from any cause whatever. On engines this form of bearing and joint is confined to the crank-shaft bearings, the crank pin and connecting-rod brasses (usually on the crank end only) and the wrist pin on the valve rod slide. On other machines they are used for various purposes. In all these forms of bearings and joints, the boxes, straps, or pillow blocks are always bored semicircular or biconcave, and the bearings (liners, formed in sections), journals and wrist pins convex or spheroidal. For boring out the pillow blocks and boxes of large sized bearings the boring bar shown in Figure 131 is employed. A represents the boring bar, broken away in the center to show the cutter-head B, which is pivoted on the pin C, and geared at D to engage with the worm and feed-shaft EE, FF'F" bearings for the feedshaft, G G feed star. The tool a is held in the cutter-head B by the binding screw b. Another form for smaller work is shown (partly in section) in Figure 132. In this form the construction is more intricate, but the principle is precisely the same. In the figure A A represents the boring bar, B cutter-head, pivoted at C, and connected with the slide E and feed-screw F by means of the...

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