



Gage Design and Gage-Making: A Treatise on the Development of Gaging Systems for Interchangeable Manufacture, the Design of Different Types of Gages and Their Production, Including Precision Machining Operations, Lapping, and Various Modern

By Erik Oberg

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English Brand New Book ***** Print on Demand *****.Excerpt from Gage Design and Gage-Making: A Treatise on the Development of Gaging Systems for Interchangeable Manufacture, the Design of Different Types of Gages and Their Production, Including Precision Machining Operations, Lapping, and Various Modern Appliances for Gage Measurement The cost of manufacturing any mechanism may be greatly affected, first, by the tolerances specified, and, second, by the gages used to insure that these tolerances are adhered to. There has been, and still is, a great deal of misunderstanding with regard to tolerances and their application in shop work. Briefly stated, tolerances should be based upon the working requirements of the mechanism to be made, and should be as large as possible, consistent with the purpose of the part or combination of parts to be made. Unnecessary accuracy which does not improve the product merely increases the manufacturing cost, and, hence, is sheer waste. After the tolerances have been established, the means for insuring that the desired tolerances are adhered to in the machining operations must be considered. The gages to be used

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