

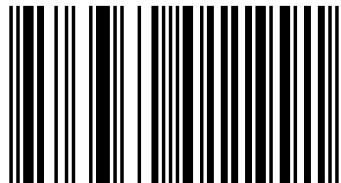
The book contains experimental investigation on the machinability of bearing steels by face turning method. This study finds its usefulness in economic machining solution to fulfill the local objectives of knowing, in advance, the machinability of selected bearing steel material of grade AISI-52100/EN-31. Two similar bearing grade steel material but with slightly different in chemical composition has been undertaken for the purpose of machinability studies by face turning method. The critical number of cutting passes up to flank wear of 0.3mm. Tool wear development, tool life studies and surface finish, were the criteria for checking technical effectivity of the face turning method. The tests are being carried according to the guidelines laid in the international standard ISO 3685:1993E, tool life testing with single point turning tools. The results presented here demonstrate the ability of the face turning method to differentiate the machinability of two bearing steels having a slight change in their chemical composition. The face turning method is simple, easy and highlights the effectivity and sensitivity.

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## Machinability Studies of Bearing Steels by Face Turning Operation



Ravuri Manu Has obtained his masters degree in Manufacturing Engineering from NITK, Surthkal. Presently working as Assistant Professor in Department of Mechanical Engineering, MITS, Madanapalli. He had published good number of National & International journals. He had conducted and attended many workshops all over the country.



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