

Final year project

Report on

Tool Enhancement by PVD coating Drills its effects And Analysis



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Dedication

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Abstract

In this project we use drills, milling cutter and turning insert with PVD coating. We used coated and uncoated tools to see the difference among them. This will show us which tool life is better than the other. This will also show us which tool is more efficient and effective than the other. Like in drilling tool coated with (TiAlN) Titanium Aluminum nitride has better efficiency than the others same like in milling TiAlN has better efficiency than the other coated and uncoated tools. But in turning insert coated with (TiN) Titanium nitride is better than the others because insert coated with TiAlN is hard and ductile it breaks but insert coated with TiN do not breaks. The purpose of doing this to find out which tool coating can be the better option for us to use.