

Thesis Title	Influence of Milling Parameters on Properties of Aluminum - Copper Alloy ; AA 2024
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Abstract

The objectives of this research were to study and compare the influence of affecting to Aluminum - Copper alloy ; AA 2024 turning in surface roughness and tool milling wear. The factors studied wear consisted of Speed, Feed Rate and Deep of Cut. Dependent variables were the quality of surface turning by measuring surface roughness were. The instruments used in the experiment were the Vertical Milling Machines, surface roughness testing machine, and Scale. The material used in the milling experiment was Aluminum - Copper alloy ; AA 2024, and have used End Mill of High speed steel (HSS.) The results revealed that Speed were significantly affected to surface roughness at the 0.01. level at high speed to give the surface a good job. But when the speed down to the lower surface quality. Feed Rate were significantly affected to surface roughness at the 0.01 level at low feed rates to the surface a good job. But when the feed rate to rise to the surface of a lower quality. Factors affecting the wear of interest is limited. The depth of the factors influencing the wear of the milling interest. Statistically significant at the .01 level to enter the low depth of the wear and tear, less than the depth of the lot. And the factors influencing the wear of the milling interest. Statistically significant at the .05 level at low feed rates will be less wear and tear. But when the feed rate to rise, causing more wear and tear.

Keywords : Milling / Surface Roughness / Tool Mill Wear