

EXPERIMENTAL INVESTIGATIONS OF HOT FORGING DIE SURFACE LAYER OF SKD61 STEEL IN DIE SINKING ELECTRICAL DISCHARGE MACHINING

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TÓM TẮT:

Electrical discharge machining is an important manufacturing process for tool mould and die industries. The results of the research about EDM show that the performance of die sink reduced due to a change in the material quality of the surface layer than the base material. The article presents the result of the study on the hot forging die surface layer of the SKD61 hot die steel (surface roughness, surface microscopic hardness, microscopic structure of the surface layer, EDS analysis of the surface layer) after die sinking electrical discharge machining using a tool of titanium and copper in oil dielectric.