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Etude Des Revêtements Durs Appliqués Sur Outil De Coupe

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Abstract : Abstract— the study in question has spent a very large partywear cutting tool and monitoring the surface condition of the cutting tool, because it is a main factor in the field of industry. For it was made a study of the roughness and wear our workapplies to the dry machining of steel 42CrMo4 with a carbide tipped tools uncoated and coated with a coating layer of a few micrometers Titanium carbide. We performed measurements of the different flank wear (V_b) and the roughness (R_a) (roughness arithmetic). Moreover, it takes a few micrograms of the cutting tools during the machining or to wear of the development time of cutting

Keywords : cutting tool, hard revêtements, wear, roughness characterization