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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 revetments, wear, roughness characterization