The Effect of the Tool Wear on the Correlation of Forces on the Face and Flank Surfaces of the Cutting Tool

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A new comparison method of the total forces for different contact areas has been published which allows increasing determination accuracy for cutting forces on flank surface. In this regard, on the basis of the new method the laboratory of the Department of Machining and Assembly of the Technical University of Liberec has carried out a study to determine the effect of tool wear on the correlation of forces on the face and flank surfaces of the cutting tool when cutting various materials.

Keywords: Machining, Cutting force, Wear

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