

Study of Surface Quality after Turning of Steel AISI 304

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Accurate and effectively machining of steel class AISI is in the fact of its chemical composition and mechanical properties often a significant problem. Effort to preserve the economical efficiency of whole production process is necessary to have behavior of the cutting tools in the process of machining these steels. Food industries all over the world use this type of steel as a basic construction material of machines and equipments designed for this type of industry. Ability to consistently know these steels is the way how to effectively machining. Small and medium manufacturing enterprises not have the means to experiment with this material and wasted, because it belongs to more expensive. For this reason in order to create high-quality machined surface while minimizing defects of products in production is significantly increased time of machining and producing product from this steel is economically inefficient. Paper deals with study of surface quality after machining of steel AISI 304. Outputs of realized experiment should help to small and medium companies to improve knowledge of steel AISI and its machining and also better understand how to effectively and profitably produce products of these steels.

Keywords: AISI 304, roughness, surface, turning.

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