

THE ANALYSIS OF THE INFLUENCE OF THE CUTTING REGIME PARAMETERS THROUGH THE SIGNAL-NOISE RATIO BY THE LATHING PROCESS OF THE POLYAMIDE PA 66

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Abstract: This work presents the analysis of the influence of the cutting parameters through the signal-noise ratio by the longitudinal lathing process of a semi-product made of the polyamide PA 66. The experiment plan was conceived following the Taguchi method and the results of the experiments show the greater or lesser influence of each parameter of the cutting regime. On the basis of the results we have obtained an equation for roughness Ra and for the parameters of the cutting regime. Therewith i achieved an analysis of the international dimensional precision (IT), which accuracy caused depending on the rugosity obtained abaft remaking.

Key words: polyamide, main cutting force.