

MODELLING AND EVALUATION FACTORS TO MACROGEOMETRICAL QUALITY AT ABRASIVE WATERJET CUTTING

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Abstract: *The paper deals with experimental work and evaluation of the abrasive waterjet factors influence on stainless steel and cast aluminium macrogeometrical quality according to full factorial design. Full factorial design was used as a statistical method to study effects of independent factors: pressure, abrasive mass flow rate, traverse feed, J/T abbreviation and depth to impact the taper as a dependent variable. Obtained multiple inverse logarithmic regression equations after analysis of variance give the level quality as a function of the process parameters.*

Key words: *abrasive waterjet, perpendicular deflection, factor analysis, macrogeometrical evaluation*



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