

عنوان مقاله:

Experimental Investigation of Different Parameters Influence on Material Removal Rate in Conical Wire EDM

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خلاصه مقاله:

Material removal rate (MRR) is an important parameter in machining especially in non - traditional machining processes such as cylindrical wire electro discharge machining (CWEDM). CWEDM is a newly developed technology in which a rotary axis is added to usual wire EDM machine . Current paper investigates the effect of main parameters of WEDM such as power , voltage , time off , rotation speed of rotary axis and form factor (cone angle) on MRR in conical CWEDM. Analysis of Variance (ANOVA) has been used for acquiring optimal conditions of machining on AISI D3 cold worded steel parts. Also an equation based on data regression has been presented. It was found that while power and form factor (con angle) are the most effective parameters on material removal rate (MRR) , time off, .rotation speed and voltage are less effective parameters

کلمات کلیدی:

Conical Wire EDM, Material removal rate (MRR), Analysis of Variance

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