

Experimental Study of Process Parameter for Surface Roughness in WEDM

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Wire cut Electrical-Discharge Machining (WEDM) is a machining process which utilizes a thin wire (around 0.18mm) for material removal. In modern machining of complex object, it plays an important role. Process parameters have great influence on WEDM. MRR, SR and WT are varying process parameters. In this article surface roughness (SR) in WEDM process was analyzed using Taguchi method. To validate the results analytical and experimental results were investigated. In experiments it was observed, when peak current value was increased, SR value also increases and in resultant a rough surface was produced. Peak current was observed as most influential parameter with contribution of 82.12%.