Department : Mechanical

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Group No: 15

Guided By

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Project Title

PARAMETRIC ANALYSIS OF MATERIAL REMOVAL RATE (MRR) AND SURFACE ROUGHNESS (SR) ON ELECTRIC DISCHARGE MACHINE

Abstract:

Electrical Discharge Machining (EDM) is one of the earliest non-traditional machining processes. EDM process is based on thermoelectric energy between the work piece and an electrode. Material Removal Rate (MRR) and surface roughness is an important performance measure in EDM process. Since long, EDM researchers have explored a number of ways to improve and optimize the Response parameter including some unique experimental concepts that differs from the traditional EDM sparking phenomenon. Despite a range of different approaches, all the research work in this area shares the same objectives of achieving more efficient material removal coupled with a reduction in tool wear and improved surface quality. The project reports on EDM relating to improvement in MRR and SR along with some insight into mechanism. In the end of the paper, scope for future research work has been outlined.

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