



Recent Un-conventional Investigation Improvement of Electric Discharge Machining (EDM) with tool Rotation: - A Review

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Abstract- Electrical discharge machining (EDM) process supreme universally used nonconventional precise material removal processes. Electrical discharge machining (EDM) is a process for affecting hard metals and forming deep multifarious shaped fleabags by arc erosion cutting-edge entirely kinds of electro conductive materials. Erosion pulse discharge transpires in a small gap between the work piece and the electrode. This eliminates the undesirable material from the parental metal finished melting and vaporizing trendy occurrence of dielectric fluid. In current centuries, EDM scholars ensure explored a number of techniques to improve EDM Process constraints such as Electrical parameters, Non-Electrical Parameters, tool Electrode based parameters & Powder based parameters. This advanced research shares the equivalent objectives of accomplishing more competent metal removal rate reduction in tool wear and improved surface quality. This paper reviews the research effort approved out from the foundation to the development of EDM with tool rotation, Water in EDM, dry EDM, and Powder mixed electric Discharge Machining. **Key**

word- Electrical Discharge Machining (EDM), MRR (Material removal rate), TWR (Tool wear rate) SR (Surface roughness), WR (Wear Ratio), HAZ (Heat affected Zone).

I. Introduction: -

The history of EDM Machining Techniques goes as far back as the 1770s when it was discovered by an English Scientist. However, Electrical Discharge Machining was not fully taken advantage of until 1943 when Russian scientists learned how the erosive effects of the technique could be controlled and used for machining purposes. When it was originally observed by Joseph Priestly in 1770, EDM Machining was very imprecise and riddled with failures.

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