



An impression of technology and investigation of built-up Electrical discharge machining (EDM)

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Abstract: - Electrical discharge machining (EDM) is unique of the initial non-traditional machining methods, based on thermoelectric initiative among the work piece and an electrode. In this procedure, the physical is removed electro thermally by a categorization of uninterrupted discrete acquittals between binary electrically conductive objects, i.e. the electrode and the work piece. The performance of the process, to a large extent, depends on the material, proposal and manufacturing method of the electrodes. Electrode design and method of its manufacturing also effect on the cost of electrode. Researchers have explored a number of ways to improve electrode design and devised various ways of manufacturing. The paper reports a review on the research relating to EDM electrode design and its manufacturing for improving and optimizing performance measures and reducing time and cost of manufacturing. The finishing part of the paper deliberates these progresses and frameworks the trends for future research work. **Keywords:** EDM, Process parameters, MRR, Electrode design, manufacturing

1. Introduction: - Electrical discharge machining is mainly a nonconventional

material removal procedure. This procedure is broadly recycled to produce dies, punches and molds, final parts for aerospace and automotive industry and surgical components [1]. This process can be successfully employed to machine electrically conductive work pieces irrespective of their hardness, shape and toughness [2-4]. During EDM process, the electrode shape is mirrored in the work piece. The electrode dimensions are determined in such a way that spark gap between the surface to be generated and electrode is maintained. Higher gap is required for higher removal rate but also higher gap results in poor surface quality. The performance of the EDM process is highly dependent on the material and the design of the electrodes. The electrode has two parts, i.e. electrode tool and holder.

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