

MACHINABILITY BY ELECTROCHEMICAL DISCHARGE MACHINING

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Abstract: The electrochemical discharge machining (ECDM) is considered a hybrid machining method in which the material removal is ensured by electrochemical dissolution of the material and by electrical discharges developed between the electrode-tool and the workpiece. When an ECDM process is applied, the materials are characterized by different values of the machinability indexes due to their chemical composition and to their physical properties. The present paper includes the authors' considerations regarding the machinability of some electroconductive materials by electrochemical discharge drilling using a passivating electrolyte.

Keywords: electrochemical discharge machining, machinability, drilling.