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Study and analysis of Compound Die Manufacturing Using wc-edm process

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Abstract - Generally tool and die making includes forming rolls, lathe bits, cutters, etc. At present most of the industries around here use conventional type of machining, such as form cutting, casting, etc. for manufacturing dies. This process though may seem cheap, actually compromises in quality of the die, its precision and accuracy and some times in the design of the component, if not carefully considered. To remove these errors from the equation in manufacturing dies, one of the modern techniques of manufacturing namely Electrical Discharge Machining (EDM) can be implement, Precision is important in die making and punches and dies must maintain proper clearance to produce parts accurately. Usually tool and die making mainly focuses on design and manufacturing sector, since the outcome of product solely depends on these two factors. This paper's objective is to implement the Electrical Discharge Machining process to make dies for a simple but widely used component in mass production in a factory with out sacrificing the quality and allowance in dimension and shape that is obtained in conventional machining.