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# DIE CASTING PROCESS IMPROVEMENT & ANALYSIS

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## Abstract

This paper deals with productivity improvement in die-casting process in a motor manufacturing unit in Goa. The rotors for the motors are manufactured using die-casting process. Various Engineering inputs were considered such as plant layout modifications, material-handling improvement, Use of Low cost automation etc. for productivity improvement. The cycle time that is required for key analysis was obtained using MOST technique. Statistical tools were used to carry out Process capability analysis. As a result of the investigation, key factors were identified including Gauge R & R. Financial implications are also a part and parcel of the investigation and analysis. The appropriate details of Engineering and financial studies carried out are presented in the paper.

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**Keywords:** Die casting process, Statistical tools, Gauge R & R, Financial implications, Proces Capability analysis.