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Alternative Techniques for Economical and Quality Injection Mould Making For Low Volume Production In Sri Lanka

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Abstract

At present, low volume production of injection moulded parts are being neglected due to high costs. This research was carried out to identify feasible alternative techniques of injection mould making for low volumes. A quantitative analysis was carried out with respect to quality and cost on these methods in Sri Lankan context. Further analysis revealed that reusable mould base method, based on the interchangeability of components is the most feasible method of production, which reduces costs by 30% to 70%. This was illustrated by a case study and a detailed design.