

Design of a control circuit for an automatic plastic injection molding machine.

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Abstract: This topic focuses on designing and implementing an electronic circuit system to effectively control the plastic injection molding process in the manufacturing industry. The context of the topic is based on the need to improve product quality as well as optimize productivity in automated production lines. The main objective of the research is to build an intelligent control system capable of monitoring and adjusting temperature, pressure, and injection speed according to technological process requirements. The applied method combines electronic theory with experiments on existing plastic injection molding machines. Through this, the topic hopes to provide a useful application solution for manufacturers to improve performance and minimize material waste during the production process.

Keywords: control circuit, plastic injection molding machine, industrial automation