

Design of an automatic plastic injection molding machine model.

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Abstract: In the context of the increasingly developing plastic industry, improving efficiency and accuracy in the production process has become urgent. This project aims to design an automatic plastic injection molding system capable of fully automating the production process. Through a combination of theoretical research and experimentation, the project will develop a model based on optimization algorithms and modern sensors to ensure uniform product quality. The expected result is to provide a highly applicable technological solution for businesses in the plastic manufacturing sector.

Keywords: automatic plastic injection molding machine, Industry 4.0, automation, optimization algorithm, modern sensors