

Design of control and monitoring system for biscuit production line using PLC S7-1200

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Abstract: This topic focuses on designing an automatic control and monitoring system for a biscuit production line, aiming to optimize the production process through the application of Programmable Logic Controller (PLC) S7-1200 technology. The selection of this topic is necessary to address current challenges regarding efficiency and accuracy in biscuit production. The objective of the research is to build a control system capable of automating the entire process, from the raw material preparation stage to the final product packaging. The research methodology includes analyzing technical requirements, designing the system, and implementing the application in practice. The expected result is an advanced technological solution that enhances biscuit productivity and quality, while contributing to the sustainable development of the food industry.

Keywords: PLC S7-1200, Automatic control system, Optimization of cookie production