

Design of control and monitoring system for 5m3 concrete mixing plant using PLC S7-300

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Abstract: In the process of concrete production, optimizing the manufacturing process is an unavoidable requirement. This project aims to design and implement a control and monitoring system for a 5m3 concrete batching plant based on PLC - S7-300 technology to enhance work efficiency while ensuring product quality. The research process includes analyzing technical requirements, selecting appropriate equipment, and programming the control system. The expected results of the project will bring significant contributions to the construction industry by improving productivity and minimizing errors in the concrete production process.

Keywords: PLC control system, Concrete batching plant, Process optimization, S7-300, Productivity