

Design of a 10-ton crane control system for lifting and lowering goods

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Abstract: In the essential context of safe and efficient cargo lifting in warehouses and factories, this topic focuses on designing a new control system for a 10-ton overhead crane. The goal is to develop an automation solution to optimize the operation process while ensuring high precision and safety in lifting tasks. The research methodology includes both theoretical and experimental approaches to evaluate system performance. The expected outcomes of this topic not only enhance current control capabilities but also provide a foundation for future technological development.

Keywords: control system, 10-ton overhead crane, cargo lifting, automation, operational safety