

Control and monitoring of 3-axis CNC machine operation

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Abstract: In the context of an industry increasingly demanding high precision and efficiency in production, this topic focuses on controlling and monitoring the operation of a 3-axis CNC machine. The objective is to build an intelligent control system with the ability to automate the production process, optimize performance, and minimize operational errors. The research methodology includes both theoretical and experimental approaches to ensure the reliability and wide applicability of the system. The expected result is a technological solution that can be applied in enterprises, contributing to enhancing competitiveness and product quality.

Keywords: 3-axis CNC machine, Intelligent control, Operation monitoring