

Fabrication of model and electrical equipment for CNC drilling machine

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Abstract: The project aims to develop a digital model for manufacturing and equipping an electrical control system for a CNC drilling machine. In the current context, the application of CNC technology in mechanical production is increasingly common, so this research plays an important role in meeting the demand for improved efficiency and product quality. The method applied combines computer engineering theory with experimentation on an existing drilling machine platform, thereby building an automated control system. The expected result is the ability to precisely control the movement of the CNC drilling machine, thereby enhancing productivity and accuracy in the machining process, contributing to technical progress in the mechanical manufacturing industry.

Keywords: CNC, Electrical Control, Digital Model, Computer Engineering, Mechanical Manufacturing