Design of the electrical equipment system for CNC milling machine

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Abstract: In production practice, providing efficient and stable energy for metal processing equipment, especially CNC milling machines, plays an important role. This topic focuses on designing an electrical equipment system to optimize the metal cutting process. The objective of the topic is to research and develop an effective technical solution to ensure stable energy, enhance equipment durability, and improve the quality of machined products. The research method includes integrating theoretical models with practical experiments on CNC milling machines. The expected result of the topic is to provide a comprehensive electrical equipment system with wide applicability in the mechanical manufacturing industry, contributing to improving production efficiency and the reliability of the machining process.

Keywords: Electrical equipment system, CNC, Metalworking, Stable energy, Product quality