

Electrical equipment for 3-axis CNC machine

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Abstract: In production practice, equipping an electrical system for a 3-axis CNC machine is necessary to ensure performance and accuracy. This project aims to study the method of designing and implementing the electrical system, while building experimental models on actual CNC machines. Through a combination of theoretical research and experimentation, the project is expected to provide useful solutions for businesses needing to enhance production productivity by equipping an appropriate electrical system. This result not only contributes to the field of CNC machine tool engineering but also supports the development of the manufacturing industry.

Keywords: 3-axis CNC machine, electrical system design, practical testing, production productivity, instrument engineering