Design of an electrical equipment system for speed control of DC motors and application in metal cutting machines.

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Abstract: In the context of the development of electronic technology, the design of electrical equipment systems for DC motors to control speed has become important for industries such as metal cutting machines. This project aims to build an effective automation solution through research and implementation of a DC motor speed control system. The applied method includes both control electronics theory and experimentation on equipment to ensure system stability and performance. The expected result is to provide a new application solution for the metal cutting machine industry, enhancing production productivity while reducing operating costs.

Keywords: DC motor, speed control system, automation, electronic technology, cutting machine industry