

Design of electric drive system for the main motion of a planer machine.

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Abstract: This topic aims to research and design an efficient electric drive system for the main motion of a planer machine, meeting the requirements for productivity and precision in the metal cutting process. By integrating principles of dynamics and electronic engineering, the study employs a combined theoretical and experimental method to optimize the system's performance. The goal is to significantly improve motion control capabilities and minimize downtime due to maintenance, thereby enhancing product quality and reducing operating costs in the machine manufacturing industry.

Keywords: Electric drive system, Planer machine, Motion control, Performance optimization, Electronic engineering