

Design of electric drive system for the main drive of the 7210 planer machine

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Abstract: This topic aims to research and design an appropriate electric drive system for the main drive of the 7210 Planer, meeting the demand for improved performance and reduced energy consumption. Through mechanical analysis, electric motor selection, and control circuit calculation, the topic applies a method combining theory with experimentation to optimize the system. Expected results from this project include building an efficient drive solution for industrial machinery, while contributing to the research field of electric drives in mechanics.

Keywords: electric drive, electric motor, control circuit, energy efficiency, system design