

Design of electric drive system for the feed motion of the horizontal boring machine 2620.

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Abstract: In the context of increasingly advanced modern technology, improving the operational efficiency of mechanical equipment is an important requirement. This topic focuses on researching and designing an electric drive system for the feed motion of the 2620 horizontal boring machine with the goal of optimizing the machining process. The applied method includes theoretical analysis of electric drive systems combined with experiments to evaluate actual performance. The expected results of this topic not only bring benefits to the field of machine manufacturing but also contribute to research on energy transmission systems in the mechanical industry.

Keywords: electric drive system, feed motion, horizontal boring machine 2620, operation optimization, theoretical analysis