

## Summary

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In the research paper entitled "Investigation of the stiffness characteristics and modernization of the actuator arm drill press model 2M55" reasonably objective research associated with the replacement spindle motorshpyndelem and improve the stiffness characteristics of the machine.

Modernization of machine tools tied to fashion. 2M55, laid the basis for the modernization of design spindle, using motorshpyndelya.

The essence of menus and graphical material explanatory note. Graphic material containing all the necessary design work and technological adjustment. In a memorandum given all the necessary technology, engineering and economic calculations.

Capacity is 12 sheets of A1 and explaining Note - 158st.

The aim - to investigate the stiffness characteristics and modershizuvaty spindle radial drilling machine model 2M55.

Object of study - spindle machine.

Purpose of the study - the stiffness characteristics of the main executive of the machine model 2M55.

Methods: method of "finite elements".

Key words: stiffness, golden sections, spindle, radial drilling machine.