

## SUMMARY

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**The aim of the research** is to investigate the accuracy of machine tool for modernizing elements of its design.

**The object of the research** is a console-based vertical milling machine 6R12.

**The subject of research** is the accuracy parameters and diagnostics of the main executive bodies.

**Research methods** are the method of "mathematical modeling".

Qualifying master's work on the topic "The accuracy and diagnostics research and the development of the console vertical milling machine construction elements". Master's work is devoted to the development of mathematical model precision processing parts. Using the system of calculation of the accuracy of the machine, which is based on the construction of its balance sheet.

The essence of the work deals with the graphical material and explanatory note. Graphical material contains all the necessary design developments and technological adjustment. The explanatory note gives all the necessary technological, design and economic calculations.

Master's work contains: 140 pages, 60 formula 23 table 31 figure 2 applications, 30 sources bibliography. Graphic part is 10 letters.

**Keywords:** milling, precision, mathematical model