

SUMMARY

Pidperygora Liudmyla. The master's degree work contains 148 pages, 36 figures, 9 tables, 30 bibliographic sources. The graphic is part of 4 sheets of and 6 placards.

Theme of master's work – Improving the accuracy and efficiency of processing heavy lathes using adaptive hydrostatic bearing college.

The purpose of work – improving the efficiency of heavy machinery through the use of adaptive hydrostatic supports.

Object of study: Spindle units of heavy machines.

In the master's work solved the following problems:

In master's degree work next tasks are untied:

1.The ways of increase of exactness of machine-tool equipment, feature of application of spindle supports of different types are analysed.

2.Methodology of calculations and design of spindle knots is worked out on supports of liquid friction.

3.The analysis of experimental researches of π spindle knot of heavy lathes is conducted

4.Control system by exactness is worked out on the base of adaptive hydrostatical supports

HEAVY LATHE, RESISTANCE, MATHEMATICAL MODEL, DEFORMATION, ADAPTIVE SYSTEM FEED, ACCURACY.