

## SUMMARY

The diploma project comprises: pages 86, figures 27, tables 9, appendix 2 and the graphical part on 3 pages A1.

In this diploma project, the development of a step electric drive system for a milling machine with numerical control was carried out.

The step electric drive system was designed to move the mechanical part of the machine in accordance with the supplied signal from the computer.

In the software environment Matlab Simulink conducted a study of the developed electric drive system. Obtained system performance in accordance with the task.

To verify the correct operation of the system and its configuration, the block has been run a numerical control program. The job was sent from the computer using the GRBL-controller software and the software G-code written in it.

STEPPER MOTOR, OPTIONAL NUMBER PROGRAMMABLE  
CONTROLE, STEP ELECTRIC DRIVE CONTROL SYSTEM, OPERATING  
CHARACTERISTICS, GRBL - CONTROLLER, G - CODE.

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