

SUMMARY

The topic of my thesis is “Preliminary design of canisters and cardboard stacking grippers”. The final design completely meets all requirements that were set forth. First of all, the analysis of existing types of containers gripping systems was done. The most appropriate option was taken as a template for future design. The experiment, the purpose of which was to get the starting parameters for assembling manipulator, was successful. The selection of components for the whole Z-axis was made by calculations of required parameters. Finally, all components were obtained and assembled into the working manipulator with moving Z-axis. Solidworks software was used to design the whole structure. This project is a preliminary solution for automatization of canister palletizing process, which in prospect will save resources for the company. During the work on this project, I acquired some new knowledge. The knowledge gained in the university was used as well. The fact that this is only a preliminary project means that it should be finalized in the future.