

## ABSTRACT

The diploma project consists of an introduction, 3 chapters, a conclusion, a list of used literature and 4 appendices. The work is completed on 60 pages and has 23 figures, 3 tables and 32 formulas.

The goal of this diploma project is the development of an automatic transport and packaging line with a weight control system.

To implement the set tasks, the following was done:

- 1) Analysis of already existing packaging lines and weight control systems and their detailed description;
- 2) Development of an algorithm for the operation of such a line with all possible problems that may arise;
- 3) Calculation and modeling of the strain gauge that can be used in such lines for control weighing of finished products.