

## ABSTRACT

The diploma project is executed on 103 pages and contains 61 drawings, 4 tables, 3 posters A1.

The purpose of this diploma project is to upgrade the working model of the automated conveyor system. The modernization is accomplished through changing the construction design of the unit to implement a belt instead of a chain and to utilize the optical position sensors. The following engineering tasks were solved to achieve this goal: an analytical review of mechanisms and structural features of continuous transport systems was carried out, calculation of power rating of electric motor for the model of the conveyor installation was carried out, the operating modes of the electromechanical system using computer simulation were investigated, new parts for the unit were designed, manufactured and installed. Capabilities and performance of the unit were experimentally verified.

The calculations and implementation of this diploma project were carried out using the following software packages: MATLAB, Microsoft Office Word, Autocad, SketchUp.

CONVEYOR, MODEL, MODERNIZATION, ELECTRICAL DRIVES,  
INDUCTION MOTOR, FREQUENCY CONVERTER, FREQUENCY  
CONTROL, SYNTHESIS, COMPUTER MODELING, AUTOMATION

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Зм.	<i>Лист</i>	ПШ	Підпис	Дата				
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