

## ABSTRACT

The master's dissertation contains 120 pages, 32 figures, 45 sources according to the list of references.

The purpose of the work is to provide experimental studies of the energy and technological characteristics of the belt conveyor.

The object of the research is the processes of automatic control of tape-cutter installations.

In this work methods of the theory of electric drive, automatic control, design of electric drives systems are used. System research was conducted through digital mathematical modeling on a computer using the MATLAB application package. The developed model of the electromechanical system of the conveyor allows to conduct research of energy-efficient operating modes. An experimental stand was created for conducting laboratory works by students.

RING CONVEYOR, ASYNCHRONOUS DRIVE, CONVEYOR  
MANAGEMENT SYSTEM, AUTOMATION, START, FREQUENCY  
CONTROL OF SPEED, FREQUENCY CONVERTOR

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Змн.	Лист	№ докум.	Підпис	Дата	Development of an experimental installation for the study of the energy characteristics of the conveyor	Літ.	Арк.	Аркушів
								120
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