

ABSTRACT

The diploma project is executed on 73 pages and contains 18 figures, 6 tables and 3 posters A1.

The aim of this diploma project is the research and development of automated electric drive of operating roller, deepening knowledge of the theory of automated electromechanical systems, development of skills, independence in taking appropriate technical solutions for the analysis of the results.

To achieve this goal decided the following main objectives: Analytical review Features of the mill, made the power calculation and selection of the motor group electric roller table, the calculation of the basic elements of the power section and choice of frequency converter designed and researched system vector motor control, performed process automation, the issues of occupational health and safety.

Calculation and realization of the diploma project were provided by the use of these programs: MATLAB R2010b, Microsoft Office Word 2007, Microsoft Office Visio 2007.

OPERATING ROLLER, INDUCTION MOTOR, FREQUENCY CONVERTER, SYNTHESIS, SIMULATION.

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<i>Chan</i>	<i>Sh.</i>	<i>№ docum.</i>	<i>Sign.</i>	<i>Date</i>	<i>Automatic electric drive of operating roller</i>	<i>Liter.</i>	<i>Sh.</i>	<i>Scale</i>
<i>Designed</i>	<i>Abrosimov O.S.</i>						7	
<i>Checked</i>	<i>Teryaev V.I.</i>							
<i>Reader</i>								
<i>R. control</i>								
<i>Approve</i>	<i>Peresada</i>							
						<i>NTUU «KPI», FEPEA, gr. ED-21</i>		