

## ABSTRACT

The diploma project is executed on 69 pages and contains 17 figures, 6 tables and 3 posters A1.

To achieve this goal decided the following main tasks: analytical review the design features of screw conveyor, power calculation and choice of engine, calculation of basic elements of power part and choice of frequency converter, research and development of a system of the direct control electric drive, health and safety.

Calculation and implementation of this degree project were provided by means of use of the following programs: MATLAB R2010b, Microsoft Office Word 2007, Microsoft Office Visio 2013, Mathcad 14, AutoCAD 2009.

SCREW GRAIN FEEDER, INDUCTION MOTOR, FREQUENCY CONVERTER, SYNTHESIS, SIMULATION.

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Chan.	Sh.	№ docum.	Sign.	Date				
<i>Designed</i>		<i>Khutorskiy</i>			<i>Automatic electric drive of screw grain feeder</i>	<i>Liter.</i>	<i>Sh.</i>	<i>Scale</i>
		Krasnoshapka					7	
<i>Reader</i>						<i>NTUU «KPI», FEPEA, gr. ED-21</i>		
<i>R. control</i>								
<i>Approve</i>		<i>Peresada</i>						