

Annotation

In the thesis, the construction of the conveyor, the kinematic diagram of the conveyor, the parameters of the mechanical part of the electric drive are determined. An electric drive system was selected, equivalent circuit parameters were determined, and naturally mechanical and electromechanical characteristics of the electric drive were constructed.

The drive control system is considered. Built adjustable electric conveyor belt.

Simulation modeling of an asynchronous frequency controlled electric drive is considered, its functional diagram and block diagram are given.

The life safety section analyzes the specifics of the conveyor industry, the main factors and methods for assessing working conditions in the workplace or at the workplace, safety measures when using electricity in the workplace, lighting of a production building.

The feasibility studies of automatic electric drive are considered in economic part, capital and operating costs are expected, the economic indicators of the offered electromechanic are certain.