DESIGN AND IMPLEMENTATION OF CONVEYORS FOR SORTATION OF GOODS BY TYPE USING AUTODESK

By

Yuan Dhuha Eka Putra

Mechatronics Engineering Technology Study Program, Engineering Department

ABSTRACT

In the industrial era 4.0, automation of production processes is very important to increase efficiency and productivity. This research aims to design and implement a Conveyor system that is capable of sorting goods by type using Autodesk software.The research methodology involves the design, simulation and physical implementation steps of the Conveyor system.

First, an analysis of system requirements and specifications is carried out to determine the optimal design. Using Autodesk, the Conveyor design was created taking into account factors such as speed, capacity and system flexibility. After the design is complete, simulations are carried out to test performance and ensure that the system can function according to the specified specifications.

This study aims to design and create a tool that is capable of carrying out the process of sorting goods automatically based on their type using Autodesk software. The design and implementation process was tested using a design feasibility test questionnaire method, which was assessed using a Likert scale. The results of the questionnaire showed that the resulting design had a feasibility level of 76%. These results indicate that the developed system can be accepted and applied in industries that require efficiency in the goods sorting process.

Keywords : *Sorting Goods, Autodesk, Conveyor Design, Likert Scale*