ABSTRACT

Conveyors have a close relationship with industry, because it is very helpful in the process of moving goods from one place to another. Many types of conveyors, but each type has certain advantages and disadvantages of each.

In this project work to create a control system of screw conveyors, screw conveyors including rotational speed, monitoring the volume of the silo using a load cell, and auto-switch on the valve solenoid. Screw conveyor will move the material form of mud from one place to a higher level. Control and monitoring using a PLC and to facilitate the use of it is equipped with a touch screen.

Design and manufacture of screw conveyors is obtained from a case study in PT. Greenfield which production of fodder. With systems that have been made, then the distribution process from production to storage units would be easier.

Keywords: screw conveyor, PLC, load cell, solenoid valve, distribution