

ABSTRACT

This project covers the development of a PLC based printing machine that automatically prints the label of the IC shipping tubes. The device is to be located in between of the forming box and take-off machine in the production line. The designed printing mechanism is composed of the main components assembly and the base stand assembly.

The developed printing machine is controlled by a PLC which has 10 programmable I/O points. The main programming method used to control the operation of the machine is the ladder logic, this program provides the timing and sequencing operations to control outputs based on the condition of the inputs.

The design and development of this project is based on the sufficient study, broad research, and soliciting suggestions from persons who are experts in the field of mechanism, circuitry, and programming design to ensure the operation of the project.

After series of device testing, the project produced the most acceptable output using stamp pad ink. The outcome of the project is considered as an operational, working, and a successful one.