



# NARNARAYAN SHASTRI INSTITUTE OF TECHNOLOGY

(Department of Electronics & Communication)

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(TRUETZSCHLER India PVT. LTD.)

## Project Title:- FLAT MOUNTING MACHINE CONTROL USING PLC.

**Abstract:-** Now a days, PLC that is known as programmable logic control, is basically essential need of industrial environment. In a textile industry, all the functionality of machines is based on PLC like testing, measuring, and performing the functions. Current Flat mounting machine takes long time to mount a flat top on aluminum bar and source code is also not available now. So we can't modify program and can't optimize required time delay. Current PLC is now obsolete in market, so we haven't any hardware support. But we can eliminate this thing by using currently available hardware. So, due to the available source code, we can modify PLC program and its related functional timings. Machine will decrease production cost and time and maintenance.

**Major Hardware components used:-** Power contactor, Motor protection circuit breaker, Miniature circuit breaker, SIEMENS LOGO! PLC, Switching mode power supply, Connecters.

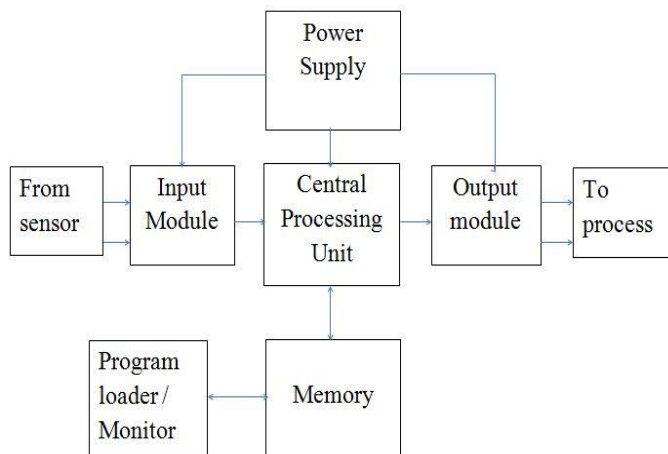
**Software used:-** LOGO! Soft Comfort, AutoCAD

### Project Application:-

(1) Flat Mounting Machine is used to mount Flat top on a aluminum bar and this assembly will used in Carding Machine which is Blow room machine.

(2) Blow Room machine is for opening and cleaning of cotton as well as synthetic fibers, dust removal and waste removal equipment, waste recycling installations and high production cards as well as control systems for the machines and complete installations.

### Block /circuit Diagram:-



**Approx. Project Cost:-** All components are provided by company. [TRUETZSCHLER India PVT. LTD.]

### Project Photo:-



MIMIC PLATE

MIMIC BOX