



**Mayura Automation & Robotic Systems**

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# **FLOW WRAP MACHINE**

**Packaging Industry**

**PLC/HMI, SERVO BASED SOLUTION**



## **ABOUT THE PROJECT:**

Flow Pack Machine that are suitable for packaging beverages, snacks, food items etc. we have provided flow rap machine automation solution to esteemed customers who are into packaging machine manufacturing. These machines require high speed of operation and precision in terms of its sealing, cutting functions. A motion control PLC designed for such application is used to achieve all the criteria expected by the customer.

It is the 3 axis machine with each axis controlled by servo mechanism. The 3 axis are

Pusher – Used to push the product into the machine

Puller – Used to pull the wrapper from the roll

Cutter - The synchronised product with the wrapper enters into cutter section which cuts at regular intervals based on eye mark sensor and followed with the sealing of each product.

The entire axis are synchronised using a CANopen protocol which is a global standard for synchronised communication.

### **SOLUTION OFFERED:**

PLC: Schneider Electric Motion control PLC LMC058

SERVO DRIVE: Schneider Electric LXM32A with CANopen

SERVO MOTOR: Schneider Electric Lexium BSH motor

HMI: Schneider Electric Magnelis HMI STU855

### **SCOPE OF MAYURAS:**

PLC, HMI Programming

Servo Drive and motor Programming and Integration

Field Instruments calibration (Sensors and Encoders)

## **FEATURES:**

- Machine capacity: 200 PPM
- Auto/Manual Operation
- Excellent safety options and alarm notifications from HMI
- Noise free operation with tuned Servo motors and drives
- Programming suitable for different type of applications