



**Mayura Automation & Robotic Systems**

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# **AUTOMATIC BLISTER SEALING AND PACKAGING**

**Packaging Industry**

**PLC/HMI BASED SOLUTION**



## **ABOUT THE PROJECT**

This automatic rotary type machine used for blister packing is used to pack the tablets in blisters and seal them with a high speed operation. The customer is a well-known company who have carved a niche for themselves in the packaging machine manufacturers with their high standards of machine design.

The machine involves following multi-station operation

**Card-feed Station:** The outer card is placed on the rotary table of the machine using servo mechanism

**Blister feed station:** The rotary table with outer card as it reaches the blister feed station, the blister cards with capsules are placed on it by servo mechanism

**Auto Fold station:** The outer card is folded onto the blisters with pneumatic mechanism

**Sealing station:** the outer card with blister is together sealed at high pressure.

**Delivery station:** Pick and place mechanism is used to pick the sealed blister cards from the rotary table and place them on the conveyor for inspection

**Inspection station:** PLC system integrated with a bar code camera is used to check the blister for correct product and reject the faulty one.

## SOLUTION OFFERED

PLC: Schneider Electric M238

HMI: Schneider Electric HMI GX03502

SERVO DRIVE: 3 LXM23D drives

SERVO MOTORS:

VFD DRIVE: ATV12

AC MOTOR:

OPTICAL and PROXIMITY SENSORS

## SCOPE OF MAYURAS

PLC Programming

HMI Programming

Bar Code Camera Calibration and Integration with PLC system

Servo Drive and VFD programming and calibration

Control Panel Design and wiring

## FEATURES

- Rotary design with servo control thus minimizing the space requirement
- Production speed control
- Auto/Manual operation
- Total Product count ,Shift Count and Rejection Count on HMI Display
- Security and Alarm notifications
- Automatic machine stop at low air pressure
- Excellent safety features in critical areas of machine operation
- User friendly operation.