

By perfectly integrating the new generation of electronics and ergonomically designed mechanical components, the machine is made to deliver optimum performance and productivity.



Register Hot-Melt Coating Machine



Coating Unit



Ventilation Module



Electrical Heated Hose Pipe



Gear Pump & Jacketed Valves



Primary Melter Tank & Mould Temperature Controller



DELICAN

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Solocoat HMC

Innovative engineering at..EXCELLENCE...

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Pelican's range of converting equipments is designed and developed to achieve high standards in flexible packaging. Its state-of-the-art technology offers excellence in converting solutions.

The Machine

Created to cover the growing needs of hot melt coating application in flexible packaging market. Enhanced performance and easy operating are key features of this machine. The machine has been specifically designed to cater register hot melt coating needs.

Control System

Entire machine is controlled and supervised by high performance motion controller. The 'ETHERNET / IP BASED COMMUNICATION SYSTEM' for machine automation maintains tight synchronization between controller and drives, providing fast, reliable, and errorless communication. Master control panel consists touch screen operator interface located at rewind side.

Minimum Wastage level and minimum dependency on labor due to increased automation and easy operating system.

Frame Structure

Distinctively designed and precisely machined, strong and sturdy, steel frame structure, maintains accuracy over long dependable life and ensures less vibration even with optimum line speed.

The mechanical construction of each component, which undergoes extensive tests, ensures optimum performance and longer equipment life.

Idle Roller

Specially designed, low friction-low inertia, dynamically balanced idle rollers, mounted on low friction bearings enhance rotational smoothness. Properly grooved, ground and balanced the rollers are made of specially graded anti-corrosion aluminum alloy.

Shaft-less Unwinders & Rewind Group

Shaft-less unwind & rewind web tension controlled by using latest generation Servo Motor and Servo Drive. The system maintains the set tension precisely throughout the reel run. The system mainly composed of AC Servo Drive and Servo Motor, pneumatically loaded low friction dancing roller assembly and load cell for tension feed-back and actual tension display.

The unwind & rewind arms move on high precision linear bushings and supported on ground chrome-plated steel bars.

Coating Unit

Coating unit is driven by an AC servomotor through a gear box. Speed can be set by means of push buttons and monitored on the display (touch screen or HMI) The AC servo drive ensures that the set speed is maintain.

Coating station mainly consists of hollow type coating cylinder assembly, high temperature resist silicon coated rubber roller and coating tray connected with re-circulating tank by electrically heated steel braided hose pipe for supply and return of melted wax. Ultrasonic level sensor maintains melted wax level and separate mould temperature controller maintains temperature in coating tray.



Doctor Blade Group

Specially designed doctor blade group ensures a straight profile of the blade resulting in lesser blade pressure, better coating quality and longer cylinder life.

Automatic Register Control System

Automatic length register control system with full colored touch screen operator interface facilitates automatic mark recognition.

Selection of different control parameters during machine speed changes and control parameters individually configurable to different materials for easy operator selection.

In-feed and Out-feed System

The in feed system maintains set tension between unwind and coating station and the same way out-feed system maintains tension between coating and rewind. The system mainly composed of matt chromium plated steel roller, AC servo motor and AC drive, load cells and rubber covered nip roller with pneumatically adjustable pressure.

Web Video Inspection System

Motorized web video inspection system consists of high quality CCD color camera, Industrial PC & Monitor (facilitates sequential inspection of the lateral and entire print repeat of the web).

Chill Roll

Jacketed chrome plated chill rollers ('S' wrap) driven by AC servo motor and drive facilitates water circulation to maintain desired surface temperature of the roller.

Ventilation Module

Ventilation Module consists of centrifugal fan to collect fumes from coating zone. Necessary cartridge type removable filter arrangements provided for quick cleaning.

Hot Melt Kitchen

Mainly composed of jacketed pre-melter tank and recycle tank made from stainless steel. Pre-melter tank facilitates pneumatically openable lid for ease of access and to store melted wax. Temperature of jacketed piping inside the pre-melter tank maintains through mould temperature controller.

Jacketed re-circulation tank receive wax from pre-melter tank and feed to application area through gear pump. Also store wax return from coating tray (application area)

Complete system consists of globe valve, jacked ball valve & needle valve with fix & flexible piping including electrical & steel braided hose connections

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LOWenergy CONSUMPTION

UNIQUE SERVICE SUPPORT



SAFETY ON BOARD

FAST JOB CHANGE OVER

Solocoat HMC