



1. Bulk product and elevating conveyor

Process, Features & Benefits

Laminate films, either two separate rolls or a single 2-ply roll of varying thickness, are dispensed by means of AC-motor driven unwind reels, whose operation is governed by a Senix ultrasonic sensor that detects the roll diameter and compensates the motor speed accordingly to dispense film uniformly, as called upon by the festoon.

Linear servo motion adjusts the unwind reel horizontal location automatically, based on input from AccuWeb, Inc. edge detectors coupled with AccuWeb electromechanical linear actuators to insure satisfactory web alignment, by maintaining accurate linear film tracking for ensuing operations.

Medical/Pharmaceutical Film Handling & Sealing System

Dispense Film, Heat Seal, Cool, Cut & Stack Bags/Pouches



2. Paddlewheel and product distribution



3. Vision acquisition – picking and placing

Film dispensation is by means of servo-motor driven nip rollers located downstream from the film unwinds, at a station located just after the cooling station. Film is festooned subsequent to the unwinds and monitored by means of optimum operation high and low level sensors, that operate nip rollers governed by an electromagnetic brake for film tension control. This process enhances film integrity by maintaining consistent uniform tension and a smooth film surface.

A section of film is indexed under a TOX-Powerpackage 8-ton press that performs a pneumatic-hydraulic operation consisting of an air-operated approach stroke, then a pneumohydraulic power-stroke and an air-operated return stroke.

The press is tooled with a heated sealing die that is a part specific tool-less change part, whose temperature is accurately governed by a CALogix multi-loop temperature and process controller.

The film is clamped in place by air bladders to prevent film stretch during sealing. The lower sealing surface consists of silicone rubber covered with a thin.

More Information

For more information on this, and many other Farason projects, please visit our website at www.farason.com or call us at (610) 383-6224.