

Automation Control for Case Packer Machines

Advantages

- **Extended machine lifecycle** – Flexible electronic synchronized drives replace rigid mechanical systems with mainshaft, gears and cams. Noise and vibration are also reduced by decoupling mechanical components.
- **Maximum flexibility** – Easy synchronization to upstream or downstream machines or processes. Control for a stand-alone machine, e.g. case erector or all functions of the case packer.
- **Increased productivity** – Reduced changeover time and increased cycle rates by replacing mechanical transmission components with servo technologies. Recipe storage allows for automated format change.
- **Reduced downtime** - No homing after downtime (in case of product jams or power failure) by using servo motors with absolute encoders.
- **Jump start programming** – Reduce development time by using machine control templates for the Logix platform.

For Case Packer Machines, Rockwell Automation offers a broad range of control solutions that utilize the Logix Control Platform.



Photo courtesy of Schneider Packaging Equipment Co., Inc.

Overview

Case packer systems are machines used in the consumer products industry for a wide variety of packaging applications. Various products in different sizes and shapes need to be packaged in larger quantities for easier and more efficient shipping to their destination. This system takes a corrugated case or a fiber board carton and assembles a box, collates the individual packages, inserts them and seals the box with tape or glue.

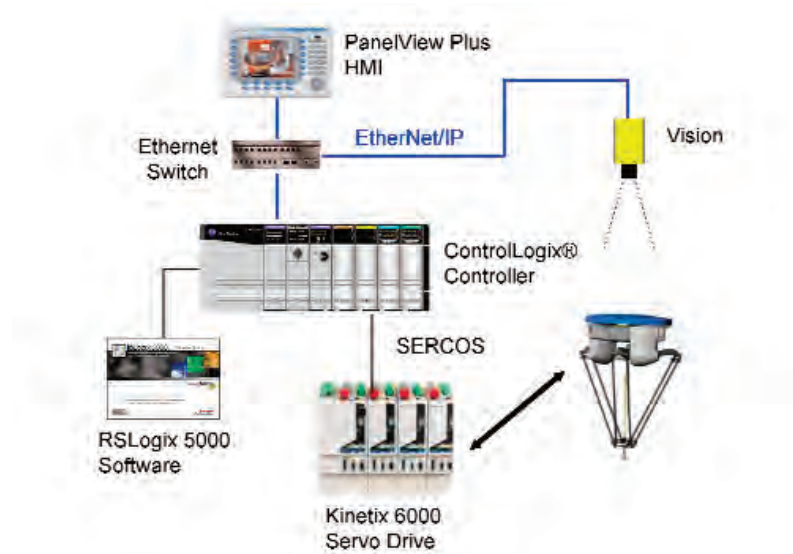
Solution

For case packers, Rockwell Automation offers a broad range of control solutions that utilize the Logix Control Platform. For applications where all the functions of a system are being controlled: assembling, filling, sealing, in addition to automatic setup requirements and integration of a feeding mechanism, the Allen-Bradley® ControlLogix® Programmable Automation Controller (PAC) is the controller of choice. For other applications the Allen-Bradley CompactLogix™ PAC can more than adequately meet machine builders' needs. The CompactLogix L4x controller bridges the gap between the ControlLogix controller and the CompactLogix L2x controller. The Logix Control Platform with integrated motion is an integral part of Rockwell Automation Integrated Architecture™, which combines networking, visualization, and information technologies to help you lower your Total Cost to Design, Develop, and DeliverSM machinery. Unlike conventional control architectures, it provides fully integrated, scalable solutions using a single control platform and a single development environment. This enables machine builders to efficiently re-use engineering designs to help reduce development time and cost and greatly enhance business performance. In addition, Rockwell Automation has developed a modular case packer machine code template based on industry standards that helps reduce development time and leverage best practices.

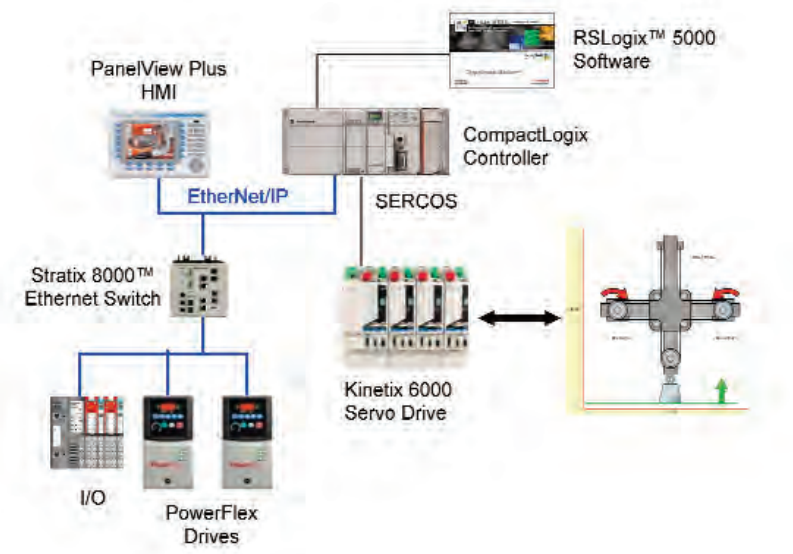
LISTEN.
THINK.
SOLVE.®

Typical Architectures

Robotic Case Packer Control System



Simple Robotic Control



Rockwell Automation solutions deliver improved production capabilities and reduced total cost of ownership by providing unparalleled functionality, flexibility and scalability. Machine builders can respond more quickly to customer or market demands, reduce maintenance costs and downtime and easily gain access to actionable plant and production information for improved management and decision-making.

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