

SOLUTIONS IN ACTION

PACK EXPO 2008



The S18-B Wrapper from Extreme Packaging Machinery



*Allen-Bradley® ControlLogix®
Programmable Automation Controller*

Booth No. S-1991

With customers in the consumer goods, frozen foods, bakery and beverage industries, **Extreme Packaging Machinery** manufactures systems that are user friendly and flexible, with a low level of maintenance required. The company, whose machine platforms are designed for servo drives, offers an extensive list of standard features with a large selection of custom options to build continuous-motion high-speed machines such as shrink wrappers, infeed systems and shrink tunnels.

On display at PACK EXPO 2008, the **XS18-SBF is a stainless-steel washdown machine** for the frozen food and bakery industry, specifically cakes, pizza and pie applications. This machine is capable of speeds of 200 packages per minute (PPM) and is available in three different models depending on speed requirements.

The XS18-SBF is made up of four modular components. A servo wrapper is used with an accumulation system that takes product from an end user's line with its no-touch accumulating infeed, allowing delicate products like pie crust not to touch each other and break during the machine feeding process. Next, the product moves to a servo product placement infeed, which accurately advances the product into the film web in sync with the cross seal. Finally, the product passes through the shrink tunnel and is taken out through a conveyor for distribution.

With products coming down the end user's line at speeds varying between 30 and 150 packages per minute, the XS18-SBF is completely integrated with Extreme's unique speed modulation programming. This monitors the incoming products and adjusts the system's speed to variations in flow, avoiding excessive stops and starts that would typically cause production line downtime. The machine's quality construction is amplified by its design and configuration programming, accomplishing smooth high speed operation. Additionally, this machine can be custom-built to fit into an end user's production line, providing seamless integration. Designed for servo drives and direct-drive inverter duty motors, the XS18-SBF provides high reliability and tool-less changeovers, all with a lower cost of ownership.



*Allen-Bradley® Kinetix® 6000
Servo Drive*

Solutions in action at Pack Expo 2008

“Our decision to use Rockwell Automation is entirely focused on our customer base,” said Ray Uttaro, owner, Extreme Packaging Machinery. “Due to its brand recognition and reputation for quality products, about 70 percent of our customers request Rockwell Automation.”



In the highest speed model of the machine, the XS18-SBF is built on the Allen-Bradley® ControlLogix® programmable automation controller (PAC) from Rockwell Automation. The ControlLogix PAC with the Allen-Bradley PanelView™ operator interface leverages the Rockwell Automation Logix Control Platform. This platform includes a common control engine, networking technology, and communications services to increase functionality, scalability and flexibility. Additionally, with the integrated Allen-Bradley Kinetix® motion control built in, the ControlLogix PAC eliminates the need for a separate motion controller, thus significantly reducing programming time and improving synchronization.

Overall, the machine uses eight Allen-Bradley Kinetix 6000 multi-access servo drives, three in the no touch infeed component and five in the shrink wrapper component. Together with the ControlLogix PAC, the Kinetix servo drives help manage the product position throughout the production line and provide solid repeatability at the cross seal of the shrink wrapper.

Additionally, the entire system uses a single programming environment, Rockwell Software® RSLogix™ 5000 design and configuration software. The software offers high-end features such as a position camera, electronic gearing, and registration to help control the product on-time and in-phase. Other features like partial import of programs, routines and add-on instructions (AOIs) are available so an end user can make sweeping control strategy changes without affecting production.

A broad range of Allen-Bradley industrial control products also are incorporated in the control package including relays, switches, pushbuttons and main disconnects. The components help provide safety monitoring, high reliability and low maintenance costs, and are widely available through the Rockwell Automation worldwide distributor network.

At PACK EXPO, Extreme will also feature moderate speed shrink wrappers, the S-Series and AL-Series that run at speeds of 120 and 75 PPM respectively, showcasing the Allen-Bradley CompactLogix™ PAC and the Allen-Bradley MicroLogix™ programmable logic controller (PLC). Both of these versions are cost-effective solutions for applications with fewer I/O that traditionally must rely on larger, more expensive controllers for features like motion, embedded I/O and EtherNet/IP connectivity.

“Aside from meeting customer demands for the products, working with Rockwell Automation allowed us to streamline design time, reduce programming efforts, and increase flexibility for future upgrades,” said Uttaro. “These benefits significantly improve our time to market.”

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