

SOLUTIONS IN ACTION

PACK EXPO 2008



*The PV-215 VFFS Machine
from Prodo-Pak*



*Allen-Bradley® ControlLogix®
Programmable Automation Controller*



*Allen-Bradley® Kinetix® 6000
Servo Drive*



Booth No. S-2425

To an OEM and its customers, low cost and quick delivery are key. **Prodo-Pak Corporation** is a machine builder advancing its business on these core values, with its specialty in vertical form, fill and seal machines. The company focuses the majority of its business in food, pharmaceuticals, consumer personal goods and industrial chemicals.

Using flexible packaging equipment, the company creates bags or pouches and fills each with materials such as liquids, tablets, pastes or powders. Every Prodo-Pak machine is ISA-88 and ISA-95-compliant, and features multiple lanes for maximum efficiency.

On display at PACK EXPO 2008, the **PV-250** is a **vertical form, fill and seal machine** that is a TW2, meaning it can process two bags in one machine cycle. Acting as a self-contained packaging line, the machine is designed for heavy liquids such as mustard, marinara and other sauces.

Starting the process, the end user pumps product into a hopper in the machine. Using one or two rolls of film, the PV-250 model forms three sides of the product bag, the bottom and two sides. Then, the product is delivered into the pouch and the top of the bag is sealed, cut and released from the machine. While the top of each bag is being sealed and cut, the bottom of the next bag is also being sealed. With its TW2 speed, the PV-250 is capable of completing up to 40 one-gallon bags per minute.

“Our decision to use an all Rockwell Automation solution is because of the industry’s respect for Allen-Bradley® brand products,” said Bruce Teeling, sales and marketing vice president, Prodo-Pak Corporation. “Our end users request the company’s products based on its reputation and excellent customer service.”

Using the Allen-Bradley ControlLogix® programmable automation controller (PAC) from Rockwell Automation allows the machine to leverage the Logix Control Platform. This platform is a sophisticated system of scalable control, networking, visualization and information technologies that provide unparalleled functionality and flexibility. The control system can manage discrete, batch, process, motion, safety and drive capabilities using one common platform, thus helping to reduce the end customer’s training costs and panel space.

Solutions in action at Pack Expo 2008

Additionally, the machine uses Allen-Bradley Kinetix® 6000 multiaxis servo drives and Allen-Bradley MP-Series™ servo motors. Used on the machine's product-metering pump, the servo drives are used as linear actuators to control the filling cycle. The servo motor is used to control the main injector, and manages the speed and acceleration of the bag-making process. Helping to lower costs, the metering system focuses on additional product precision for reduced waste. In addition, servo metering assists in reconfiguring the machine very quickly, helping to save time and increase throughput.

For simplified drive start-up and reduced development time, drive configuration is integrated with the machine's Rockwell Software® RSLogix™ 5000 design and configuration software, also from Rockwell Automation.

Easing changeover selection, this machine uses an Allen-Bradley PanelView™ Plus human-machine interface (HMI) that is tightly integrated with the ControlLogix PAC. Tight integration also helps to maximize uptime and minimize maintenance time.

Prodo-Pak also uses Allen-Bradley PowerFlex® variable frequency drives in the PV-250 design. These drives give manufacturers flexible and more cost-effective speed control. Other Allen-Bradley components featured on the machine include push buttons, switches and relays.

Standardizing on a Rockwell Automation machine design helps Prodo-Pak customers lower startup time, reduce inventory and increase reliability, thus helping to increase competitiveness. These cost-effective measures equal a smart business decision.

For more information, contact:

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