

SOLUTIONS IN ACTION

PACK EXPO 2008



Allen-Bradley® CompactLogix™
Programmable Automation Controller



Allen-Bradley® Kinetix® 6000
Servo Drive



The Mini Barrel Cam Horizontal Cartoner
from ADCO

Booth No. S-2413

With more than 50 years of experience in packaging machinery design and fabrication, **ADCO Manufacturing** offers a complete line of hand-and auto-load cartoners, top-load carton formers and closers, wrap-around sleeves, custom machinery and corrugated tray formers and case packers.

At PACK EXPO 2008, ADCO will be displaying its new **Mini Barrel Cam (MBC)**, a **horizontal cartoner** featuring a compact, high-speed design capable of loading up to 300 cartons per minute. The unique design features a carton hopper that is mounted over the machine frame, which helps conserve valuable plant-floor space.

The MBC is equipped with an Allen-Bradley® CompactLogix™ programmable automation controller from Rockwell Automation and programmed using PackML standards. The machine also is equipped with several variable-frequency drives, including an Allen-Bradley PowerFlex® drive. A servo control option, using Allen Bradley Kinetix® 6000 servo drives, allows the machine to run in either continuous or intermittent motion with the push of a button.

“The integrated CompactLogix controller combines discrete and motion control capabilities into one processor, which eliminates the need for multiple controllers,” said ADCO Electrical Engineering Manager Kevin Gilpin, “The control platform also features tag-based memory, which greatly reduces programming time and puts data in a more usable format for our customers.”

An Allen-Bradley PanelView™ Plus touch-screen operator interface allows users to easily access information about machine activity and productivity, and quickly identify and diagnose problems. Other Allen-Bradley components include push buttons, photoeyes, and proximity switches.

“ADCO is working to standardize all machines on Allen-Bradley products because our customers specifically request and trust the brand,” Gilpin said. “Aside from the great quality products, our customer also benefit from having local parts and support no matter where they are located.”

Solutions in action at Pack Expo 2008

ADCO also will have on display its new **Horizontal Carton Former (HCF)**. Designed to form large-size, top-load cartons, the machine is capable of speeds up to 50 cartons per minute. Control functions are managed by a CompactLogix programmable automation controller that controls up to four axes of motion. A PanelView Plus operator interface provides easy access to machine status and diagnostics.

A carton hopper and forming mandrel are driven by Kinetix 6000 multi-axis servo drives, which help manage carton positioning throughout the loading and forming process. The Kinetix motion control built into the CompactLogix controller eliminates the need for a separate motion controller, thus significantly reducing programming time and improving synchronization.

The Kinetix drives help to provide more precise control of the carton picker and feed belt. The flexible servo drives and motors allow operators to more quickly and easily adjust the speed, position and timing parameters, providing a more controlled motion profile while improving machine throughput.

"Engineering the HCF with servo technology has significantly reduced the quantity of parts inside the machine, making it mechanically simple and easier to work with for the end user," Gilpin said. "In addition to making wiring, programming, operation and troubleshooting faster and easier, the advanced control capability and innovative design of the Kinetix servo drives augment the flexibility of our machines."

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