

# SOLUTIONS IN ACTION

PACK EXPO 2008



*6-Station Bulk Filling Machine  
from Pacific Packaging Machinery*



*36-Station Rotary Volumetric Filling Machine  
from Pacific Packaging Machinery*



*Two-phase Filling Machine  
from Pacific Packaging Machinery*



## Booth No. S-2878

**Pacific Packaging** is an industry leader in precision-engineered **rotary volumetric and mass flow filling machinery** for the food, pharmaceutical, automotive, home care and personal care industries. With every machine built to individual application specifications, manufacturers can package liquids with any viscosity into any size container using the Pacific Packaging filling equipment.

Additionally, Pacific Packaging fillers can accommodate numerous configurations and there are no limitations to the types of product that can run on a single machine. For example, a manufacturer can fill a two-ounce bottle of mouthwash, then changeover to fill a 32-ounce bottle of shampoo on the same machine. Helping to enable this high level of flexibility, the fillers are equipped with an Allen-Bradley® ControlLogix® programmable automation controller (PAC) from Rockwell Automation.

“By using the ControlLogix PAC, customers can select from a menu of predefined commands, saving significant configuration time,” said Vince Giuliano, design engineer, Pacific Packaging.

The filling machines also use an Allen-Bradley PanelView™ Plus 1000 Human Machine Interface (HMI) that is tightly integrated with the ControlLogix PAC for easy changeover selections. Tight integration also maximizes uptime while minimizing time spent on maintenance.

To distribute I/O in hazardous areas, the fillers feature FlexEx™ intrinsically safe I/O. This distributed I/O system provides significant design, installation and wiring savings. Additional features of the Pacific Packaging rotary filling machinery include:

**Variable Rate Product Flow.** While the machine operates continuously at high speeds, special valves allow the product discharge rate to vary throughout the fill cycle. For example, when filling a bottle of household glass cleaner – one that is wider on the bottom and smaller on the top – the machine will slow down the fill speed as the contour of the bottle narrows.

**Bottom-Up Fill.** Through a simple changeover command, the machine will lower the fill nozzle to a predefined drop height before beginning the fill cycle. This feature keeps thicker products, such as mayonnaise, level during the fill, when they would otherwise create a mound.

# Solutions in action at Pack Expo 2008



Allen-Bradley® ControlLogix®  
Programmable Automation Controller



Allen-Bradley® Ultra™ 3000  
Servo Drive

**Two-Phase Fill.** For products that require a specific ratio of combined products, Pacific Packaging is the only packaging machine builder in the world to offer fillers with two fill phases on one filling turret, eliminating the cost and additional floor space required to run two fillers back-to-back.

**Servo-Based Drive System.** Allen-Bradley MP-Series™ servo motors and Ultra 3000™ servo drives from Rockwell Automation enable the high level of accuracy in the filler's motion control. The highly-integrated servos are able to track one-another and accurately coordinate speed changes, minimizing waste during product changeover.

“The main reason we've standardized on the Rockwell Automation Integrated Architecture™ is the tight integration the products enable,” said Giuliano. “All the components seamlessly connect and communicate with one another, making engineering our machines much easier and less costly for us and our end customers.”

**For more information, contact:**

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