

# SOLUTIONS IN ACTION

PACK EXPO 2008



*The High Speed Reciprocating Conveyor  
from KLEENLine*



*Allen-Bradley® CompactLogix™  
Programmable Automation Controller*



*Allen-Bradley® Kinetix® 6000  
Servo Drive*



## Booth No. S-1379

With strict regulatory responsibility and increased public awareness, the demand for quality food and pharmaceutical manufacturing lines has never been greater. **KLEENLine Corporation** helps manufacturers overcome these challenges with its high-performance conveyors and material handling equipment.

At PACK EXPO 2008, Newburyport, Mass. based KLEENLine will be showcasing its **high-speed reciprocating conveyor** with an indexing discharge conveyor. Typically used as a turnkey system for bakery companies, this conveyor helps manufacturers load trays with cookies, pastries and other products. The 10-foot-long conveyor transports single-file, arranged products to the end of the machine, then the conveyor retracts and drops indexed, arrayed products onto a tray or pan below. Situated on an overlapping, perpendicular conveyor, the loaded trays then travel to an oven or freezer, and down the rest of the packaging line.

Ideal for the food and pharmaceutical industries, the conveyor features a stainless-steel, wash-down construction. The customizable conveyor allows users to load trays in either direction by simply adjusting the stroke length. In addition to stroke lengths, operators can easily adjust retraction rates, belt speed and the distance between products on the tray. This gives customers the flexibility to accommodate changing pan sizes and product patterns.

KLEENLine relies on Rockwell Automation to help automate its high-quality reciprocating conveyor and integrate it with downstream operations. KLEENLine uses Allen-Bradley® Kinetix® servo motors from Rockwell Automation to enable the conveyor's fast, accurate motion control. From indexing to high-speed retraction mechanisms, the servo motors deliver a level of precision and coordination that yields 100 retractions per minute.

To accommodate the conveyor's frequent speed changes, the machine leverages Allen-Bradley PowerFlex® 4 variable frequency drives. These drives help to deliver versatile, powerful motor-speed control in a compact, space-saving design. To control drive, motion and discrete applications on a single system, the conveyor uses an Allen-Bradley CompactLogix™ programmable automation controller (PAC). Ideal for machine-level control applications, the PAC reduces the need for multiple controllers and helps deliver high performance within a small footprint.

# Solutions in action at Pack Expo 2008

Rockwell Software® RSLogix® 5000 software works with the controller to program all aspects of machine control. By using one, multidisciplinary package, RSLogix software help to deliver the programming flexibility needed to meet the evolving demands of the food and pharmaceutical industries.

The conveyor also leverages an Allen-Bradley PanelView™ Plus human-machine interface (HMI) to monitor, control, and display machine information graphically, allowing operators to more quickly understand the status of their application. As a window to the machine, operators can use the HMI to indicate product orientation, change stroke length and store recipes.

“We diligently design dependable conveyors that give our customers high production rates along with peace of mind,” says Stuart Olsen, marketing manager, KLEENLine. “This is why we use Rockwell Automation solutions that deliver the reliability, quality and performance both KLEENLine and our customers can count on.”

**For more information, contact:**

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