



PUB EXPERIENCE:
Grolsch tries to tap home market. **8**

JUST IN CASE:
Dial fills detergent bottles already in cases. **42**



BEST IN SHOW:
PACK EXPO showgoers choose favorite. **40**

 Reed Business Information®

January 2009

PACKAGING DIGEST®

www.packagingdigest.com

Crazy for Craisins

Portion-control packs offer sweet solution **20**

Souped-up cartons **26**

Modular automation **34**

New lease on "life" **48**

RBI™

CLICK HERE TO
RENEW

your FREE **magazine**
subscription

CLICK HERE TO
START

a FREE **e-newsletter**
subscription



3 in 1
Secure, Eye-Catching
Informative
Full Body
Shrink Sleeve



Want More From Your Label?



GILBRETH

3001 State Road, Croydon, PA 19021

800.630.2413

www.gilbrethusa.com



Why Settle for Less? Shrink Sleeve Labels Give You More.

More...Label Coverage.
Design Flexibility.
Shelf Presence.
Safety and Security.
Environmentally Friendly.
Sales Guaranteed.

Due to the overwhelming success of our
Shrink Training Seminar at this years Pack Expo,
Gilbreth is offering...

SHRINK TRAINING 101 *in your facility!*

Our Professional Training Staff will come to your facility
to instruct and answer your questions about printing
Shrink Sleeve Labels.

For more information please visit our website
www.gilbrethusa.com

Expect MORE From Your Label.

Increase Speed and Flexibility...

with servo controlled mechatronics solutions

FESTO



If you are looking to increase throughput and efficiency on your packaging equipment and processes, Festo has the innovative solutions to provide more reliable, more flexible, and faster production.

As a leading global manufacturer of pneumatic, electromechanical, and control technology, Festo is uniquely positioned to provide an optimized mechatronics solution by seamlessly integrating the best-suited technology for each movement.

Top class technology combined with system and process expertise... Festo supports all automation requirements... from pick & place to customer-specific handling, from servo/stepper drives to controllers.

Festo... Supporting advanced automation... as no one else can.

Precise metering, filling, and sealing

This entire seven station process is supported by Festo electromechanical and pneumatic components.

26 standard and short-stroke pneumatic cylinders are used in conjunction with 10 MTR-ST stepper motors and type MTR-AC servo motors.

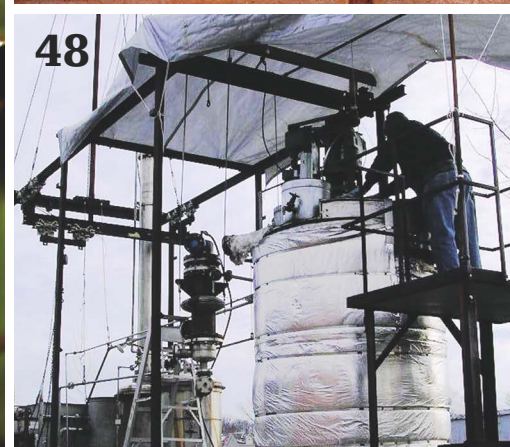


Electromechanical Linear Actuators, Motors, Controllers, and Drives

For more information visit:
www.festo.com/us/pd

contents

JANUARY 2009 volume 46 no. 1



features

- 20 COVER STORY** Vertical f/f/s system sticks to measurements for Craisins' 100-calorie packs from Ocean Spray.
- 26 RETORTABLE SOUP CARTONS** IPM Foods is first contract packager in U.S. to add a retort packaging line for soups.
- 39 SUSTAINABILITY** How does one begin to deal with sustainability issues in such trying times?
- 42 IN-CASE BOTTLE FILLING** Dial Corp. adds casing/filling/capping lines for detergent bottles.
- 48 END-OF-LIFE SCENARIOS** New technology opens up opportunities for end-of-life in flexible packaging.
- 51 TRADESHOW** WestPack 2009 will offer the latest packaging advances when it opens in Anaheim, CA, Feb. 10 to 12.

new technology

- 40 SUSTAINABLE MEAL KITS** Self-venting microwavable 'green' meal packs for kids feature enviro-friendly technology.
- 34 AUTOMATION & CONTROLS** Servo-driven f/f/s system sates demand in the great shift to standup pouches.

new products equipment

Vivo! Photo-Quality Digital Label Printer

You need 7,500 color Labels by this afternoon? No Problem!



The Vivo! digital color label printer is designed for manufacturers who need fast-turnaround on "short-runs" of labels for printing just-in-time, private label packaging, and export labels. The Vivo! digitally prints photo-quality labels at high speeds, up to 3 ips in 600 dpi CMYK color and is cost-effective for moderate-high volumes of labels, from 500 – 25,000 per batch. The Vivo! is a toner-based printer, similar to a laser printer, and printed labels are extremely resistant to fading, abrasion, and moisture. Prints onto paper and synthetic die-cut labels and tags.

QuickLabel Systems, 877-757-7978.
www.QuickLabel.com

Integrate Color Label Printing In-line



QuickLabel's Xe series of thermal transfer digital color label printers can be integrated "in-line" with automatic label applicators. They produce color labels faster than any other in-house label printers, and offer the greatest speed in processing and printing variable label content. Print as fast as 7 ips in 4 Spot Colors or 3-4 ips in CMYK Process Color. Prints from enterprise software, custom software, or our Custom QuickLabel® Omni software on rollstock up to 8.3" wide.

QuickLabel Systems, 877-757-7978.
www.QuickLabel.com

Come see us at
WESTPACK booth #4947.

Blank Labels & Inks



QuickLabel® manufactures labels, inks, and thermal transfer ribbons for every label printer brand. We have labels in 1000s of shapes and sizes, and dozens of materials and price ranges. We'll drop-ship to your customer or deliver to meet your own needs.

QuickLabel Systems, 877-757-7978.
www.QuickLabel.com

Barcode Printers with Lifetime Warranty



QuickLabel's Pronto! family of barcode labels printers make it easy to print single-color product labels and shipping labels. Sold with Lifetime Warranty, QuickSwap™ Loan, Repair & Replacement Service, and 24-hour Customer Support.
QuickLabel Systems, 877-757-7978.
www.QuickLabel.com

Label Printing Services



QuickLabel offers two services: the QuickPrint service, using QuickLabel's short-run label printers with fast turnaround and low minimum order quantities, and the QuickFlex service, using flexographic presses.
QuickLabel Systems, 877-757-7978.
www.QuickLabel.com

Print Your Labels Out-of-the-Box

Zeo!
Inkjet Digital Color Label Printer



Hello :-) Do you have great ideas for custom product labels that your customers will love? An idea for a new product, or a "new look" for the labels on your existing products? Wouldn't it be great to be able to see your new labels printed right away, in the exact quantity you need? The good news is that you can, with the Zeo! inkjet label printer.

You can use the Zeo! to print your own custom labels in minutes – right out-of-the-box – in fantastic Zeo-istic Color™. Print as much or as little as you need, whether it's one label or 1,000 labels. Print on any label shape or size. Print 150+ labels an hour!

The Zeo! is such a reliable printer, it comes with a Lifetime Warranty and QuickSwap replacement service.

QUICK LABEL SYSTEMS
The Labels You Want When You Need Them®

Call us toll-free: 877-757-7978
Visit us: www.QuickLabel.com

Inkjet
Technology by
hp
invent



Little label printer, big ideas™ :-)



departments

- 6 DESIGN TRENDS** Food
- 11 COMMENT** Six trends in packaging for 2009
- 12 NEW EQUIPMENT SPOTLIGHT** Marking & coding
- 17 NEW MATERIAL PRODUCTS** Flexible packaging
- 39 SUSTAINABILITY** Sustainable issues in this economy
- 46 SYSTEM INTEGRATION** Plan large projects wisely
- 52 INFO SHOWCASE**
- 54 MARKETPLACE**
- 55 NEWSMAKERS**
- 55 AD INDEX**
- 56 ONPACKAGINGDIGEST.COM**



staff

Editorial/Production Offices

2000 Clearwater Dr., Oak Brook, IL 60523

630/288-8000 Fax 630/288-8750 e-mail: packagingdigest@reedbusiness.com



John Kalkowski, Editorial Director
630/288-8706 john.kalkowski@reedbusiness.com



Lauren R. Hartman, Senior Editor
630/288-8749 lhartman@reedbusiness.com



Jack Mans, Plant Operations Editor
630/288-8747 jmans@reedbusiness.com



Linda Casey, Associate Editor
630/288-8746 linda.casey@reedbusiness.com



Lora Lee Gelles, Art Director
630/288-8566 lgelles@reedbusiness.com



David Bellm, New Media Editor
630/288-8757 david.bellm@reedbusiness.com

Joy Tan-Pipilas, Production Editor, mtan@reedbusiness.com

Christina Kayalik, Production Manager, 630/288-8431, christina.kyalik@reedbusiness.com

Michelle Vaccaro, Web Prod. Manager, 630/288-8533, michelle.vaccaro@reedbusiness.com

Rose Logusz, Classified Production, rlogusz@reedbusiness.com

Lisa Stephens, Ad Services Coordinator, felecia.stephens@reedbusiness.com

Tad Smith, CEO

Jeff Greisch, President, Chicago Division

John Poulin, Senior Vice President, Finance



Steven Reiss, VP, Publishing Director
630/288-8807
sreiss@reedbusiness.com



Robert Heitzman, Publisher Emeritus
630/288-8735
rheitzman@reedbusiness.com

WRAP IT • PACK IT • STACK IT

Maximize your production with CAMPAK and handle any size job no matter what the packaging process. Integrate two or more of our machines into a complete, high-speed packaging line delivering the lowest possible cost-per-finished-package!

- Blister Packers
- Liquid/Powder Filling & Capping
- Cartoners
- Overwrappers
- Tray Forming/Filling
- Casepackers
- Palletizers
- Bundlers/Shrinkwrapping



Model L 112 Liquid Filler/Capper

Model HV/2 Cartoner

Over 30 different CAMPAK machines available!



Model SMP Casepacker

Model NRT Overwrapper

www.campak.com

Contact us today:

Tel: 973-597-1414

Fax: 973-992-4713

Info@campak.com



CAMPAK INC.

119 Naylon Avenue
Livingston, NJ
07039

A Story of a Manufacturing Firm, Your Town, USA



Chapter 1: Typical production line. Too many people making up too little cartons. Profits are drying up. You've pulled out all your hair!

Chapter 2: Scary scenario. Your best worker is out with carpal tunnel and you have to generate 80,000 units by next week!



Chapter 3: You install a Bivans cartoner. Cartons are pumping out, workers are happy, and profits are up.

Final Chapter: You saw Return on Investment months ago. And since the life-expectancy of a Bivans is 15 years or longer, you sit back and relax.



2431 Dallas Street * Los Angeles, CA 90031

(323) 225-4248 Phone * (323) 225-7316 Fax

Website: www.bivans.com

Email: info@bivans.com

"Built like a tank" But not priced like one

Don't get **BURNED** On Your Next Labeler



Our labeling systems are designed to provide you with years of reliable service in the harshest environments. From sophisticated mainframe systems able to run 24/7/365, to high quality economically priced systems...

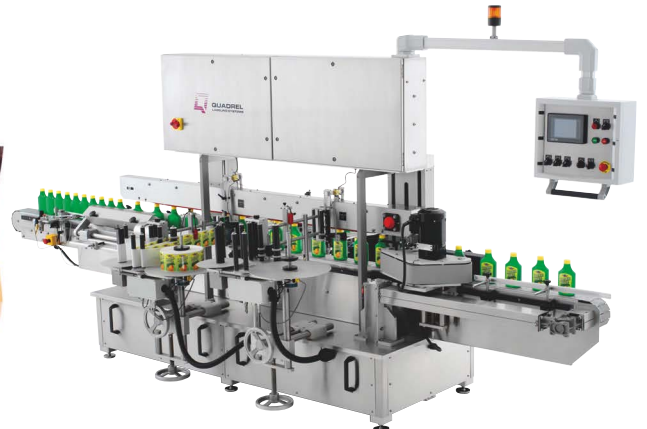
WE keep you out of the HOT SEAT!

WINE, DISTILLED SPIRITS, PERSONAL CARE ROTARY LABELING SYSTEM



- Available up to 600 ppm @ $\pm 1/32$ " accuracy
- Up to 4 servo driven labeling stations for wraparound, front/back, neck and spot

FOOD, BEVERAGE, AUTOMOTIVE, CHEMICAL 24/7 IN-LINE LABELING SYSTEM



- For the harshest environments
- 350 ppm @ $\pm 1/32$ " accuracy
- Color Touch Screen All PLC control
- Ideal for food contract packaging

ECONOMICALLY-PRICED FLEXIBLE IN-LINE LABELER



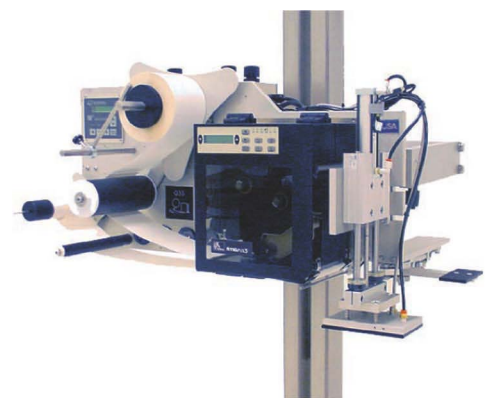
- Ideal for Contract Packagers
- Stainless steel construction
- Front/Back, Wraparound, side panel
- Auto-Set feature provides one button set-up

BAKED GOODS & PREPARED FOODS CLAMSHELL LABELING TOP/BOTTOM AND 3 PANEL



- Applies labels up to 120 PPM
- Features Auto-Set for instant changeovers
- Heavy duty/Stainless steel

CASE/PALLET LABELING PRINT & APPLY/RFID READY



- Bar codes, graphics, variable information
- Pallet labeling, carton labeling
- Leading, side panel, corner or adjacent side

Pressure-Sensitive Label Application Equipment For Every Need & Budget

www.quadrel.com 800.321.8509

7670 Jenther Drive, Mentor, OH 44060 Phone: 440.602.4700 Fax: 440.602.4701

See us at WESTPACK Booth #5443



QUADREL
LABELING SYSTEMS

design trends

food packaging

Canister puffs up ARGO corn starch



ARGO® corn starch from ACH Food Cos. was first introduced in a carton in 1902. So how does a brand that's been around for more than 100 years innovate in order to become more contemporary and consumer-relevant while fighting off competitors? Clever packaging can help. The product's new, 16-oz resealable plastic canister reduces inherent messiness of corn starch, provides an easier way to measure the product, is easy to store, is stackable and has an easy-grip, square shape.

With help from **Lift Packaging+Promotions Creative** (www.liftcreative.com), which designed the label graphics, ACH proceeded with Project AMBIR, which stands for "Argo Must, Be, In, Resealable." Topped with a threaded blue cap from **Berry Plastics** (www.berryplastics.com), the innovative yellow HDPE canister from **Schoneck Container** (www.schoneck.com) displays familiar ARGO graphics, courtesy of glue-applied labels furnished by **Hammer Packaging** (www.hammerpackaging.com). The design improves shelf presence and updates the brand for the 21st century, while maintaining the Argo's brand heritage, identity and market leadership position. ARGO's packaging has had few graphic changes in its long history.

The category leader in corn starch products, ACH says it has seen competitors change package structures over the last five years to include resealable containers, which consumers perceive as more premium, fresher, easy-to-use and more contemporary. The team then quickly mobilized to source the components, build bottle molds and secure equipment for filling at the ACH plant in time for the peak 2008 baking season. The overwhelming consumer response led ACH to leverage the package into its baking powder segment in a 12-oz size, also from Schoneck. It's topped with a **Weatherchem Corp.** (www.weatherchem.com) flip-top cap in blue.

Ready meals, from the microwave to your desk

ConAgra Foods, Omaha, says its shelf-stable packaging for new Healthy Choice® Fresh Mixers™ "starch-and-sauce" combo meals enhances their convenience. Designed with both customers and consumers in mind, the packaging teams rice or pasta noodles and a tray of sauce with form and function. An innovative top and bottom container structure is covered with a side-handled lid that doubles as a strainer. The innovations related to this container are covered by ConAgra Foods' pending patent applications.

The container's function is three-fold: It showcases the meals on store shelves to demonstrate freshness; it cooks the product in the microwave; and it functions as a serving bowl after the meal is prepared.

The duplex cooking and serving function heightens the "from-your-desk" preparation ease of Healthy Choice Fresh Mixers. The shelf-stable products have a one-year shelf life and have been available on the market since August, ConAgra reports. They feature an oval snap-fitting lid with multiple holes to strain either pasta or rice, depending on the product variety, and the lid resists leaks.

Injection-molded of clarified PP by **Berry Plastics** (www.berryplastics.com), the outer tub also features a convenient fill line that allows consumers to easily measure water used in cooking the meal. The inner sauce tray is made by **Rexam** (www.rexam.com), which uses a proprietary rotary thermoforming process. **American Packaging Corp.** (www.ampcorp.com) produces the heat-sealed, die-cut peel-off strainer lid membrane of a PET lamination. **Fort Dearborn Co.** (www.fortdearborn.com) prints the labels on a semi-gloss paper stock with an OPP film overlamine.

The user peels off the film lid, removes the strainer lid and sauce tray and adds water to a fill line. They snap on the strainer lid and microwave the container on high for five min, letting the cooked meal stand one min. The package vents through strainer holes in the lid. Just mix the sauce with the rice or pasta. Cathy Shapiro, principal packaging engineer at ConAgra Foods, says that so far, consumer response has been favorable to the line, priced at \$3.49 each. There are six varieties, including Sweet & Sour Chicken, Sesame Teriyaki Chicken, Ziti & Meat Sauce, Rotini & Zesty Marinara Sauce, Southwestern Style Chicken and Szechwan Beef with Asian Style Noodles.



Sea salt chips pucker up in new bags

A splash of tangy vinegar and a sprinkle of sea salt cook up a new Kettle Chips potato chip flavor, available in stores from Kettle Foods, Salem, OR, starting in January. The Sea Salt & Vinegar flavor was launched in supermarkets and natural-food stores in 4-oz bags that display redesigned graphics for the entire Kettle chip line. The new flavor is made from whole potato slices, oil and natural seasonings, and the chips contain no trans fat, artificial colors or preservatives. Selling for about \$3.79, the new chips combine a tangy vinegar taste with a touch of sea salt and are made from whole potato slices, oil and all natural seasonings. Kettle Foods is so confident that flavor fans will love its new Baked Potato Chips as much as regular Kettle Brand® Potato Chips that it's offering consumers a trade of their opened bags of Kettle Brand® Baked for a sealed, new bag of the Lightly Salted Potato Chips at www.kettlesnackback.com. Redesigned with help from **Michael Osborne Design** (www.modsf.com), the bags, which are produced by **Printpack** (www.printpack.com) using a matte-finished PP film, are flexo-printed with a Snackback Guarantee seal and crisp, clean graphics in six spot colors per bag (four common colors across the line). Kettle Foods also wanted to align the graphics to fit more closely with its original potato chip line in both name and visuals to build on its equity and to highlight its "65-percent less fat" message. The new look communicates a delicious, all-natural flavor fans can expect from the baked version of their favorite kettle chips. Kettle Foods makes and packs the chips at its factory in Salem.



Get **Fit**, Save **Green**
With **Diagraph** by...

- lowering operating costs
- increasing throughput
- reducing downtime

POWER



New LINX 6900

Industry's best small character CIJ printhead has no moving parts, plus a complete auto-flush at shutdown. No clogged nozzles. The power of uptime is all yours.

ENERGY



New Platinum E-Series

All-electric labeling system that uses no compressed air, delivers all the performance and throughput you're used to, plus cuts energy costs up to 50%.

BALANCE



New TJ500 Thermal Jet Printhead

Low-cost, industrial-grade, high-resolution thermal jet printing system with easy-to-change ink cartridge. It's the perfect balance of value and performance.

SPEED



New LINX SL101 & SL301

Introducing LINX Laser Coders. Incredibly fast, indelible marking on chipboard, plastic, glass and more. Simple to install, simple to operate, simple to maintain.

PERFORMANCE



New Pallet Labeling Solution

Track & trace pallets with Industrial PC-driven labeling system. ODBC connectivity to your warehouse management database. Label front, side or rear panels.

FLEXIBILITY



New Printheads

On demand printing of bar codes, date codes, logos, graphics, nutritional facts, ingredients, product identification and more. Ingenuity and versatility at its best.

Next step...go to
www.diagraph.com/getfit
for more information.

 **Diagraph**
An **ITW** Company

See us at WESTPACK Booth #5529

800.722.1125
www.diagraph.com
info@diagraph.com

design trends

Monochromatic fragrance sample kit dispenses multi-element appeal

The prestigious designer fragrance and apparel company Leonard is using the Sof'Cell mini dispenser from **Rexam** (www.rexam.com), as part of a multi-element promotional kit to create excitement for its new men's fragrance, Leonard Homme. Designed to appeal to younger, fashion-forward fragrance users, the sample packaging can be quickly attached to a mobile phone, backpack, belt or keyring.

The first element of the monochromatic promotional kit is an opaque flowpack that perfectly recreates Leonard's iconic Copte print. Inside, an information card tells the story behind the new fragrance. Finally, the Sof'Cell is fitted with the classically elegant Rexam Sof'n Touch applicator, which dispenses Leonard Homme by capillary action, upon touch to the skin, like a mini roll-on.

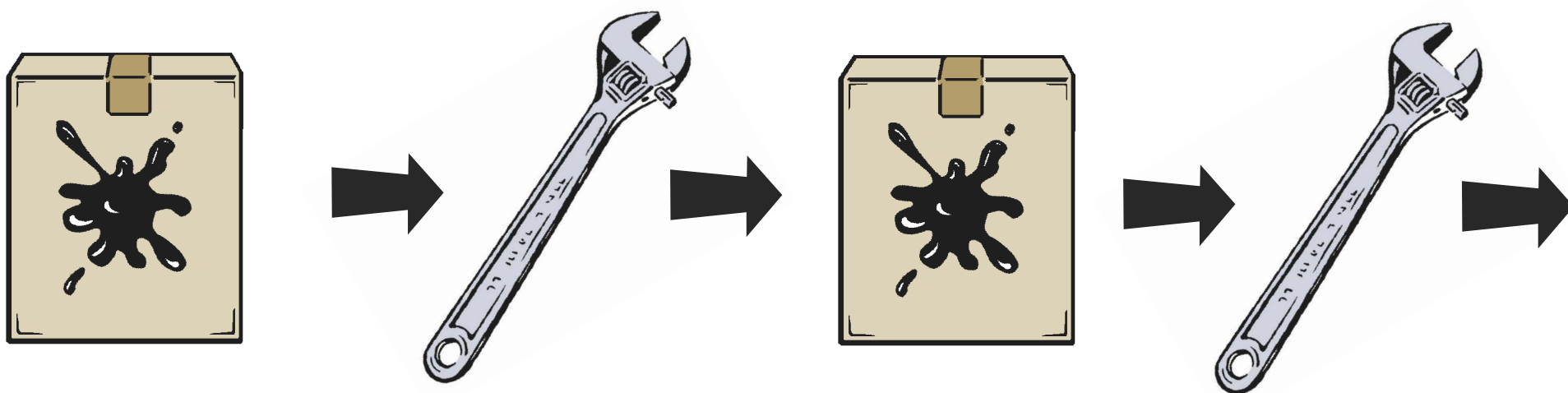
"Rexam's Sof'Cell is truly special and perfect for the demographic we want to reach for the important launch of Leonard Homme," says Stephanie Cabon, Leonard Parfums' marketing officer for new product development. "It is an innovative, impactful marketing tool that will help communicate the youth appeal of our new fragrance."



Grolsch's brews up tapper bottle for draft beer experience at home

Now you can have Grolsch beer from SABMiller Group straight from the fridge, on tap, at home, as Grolsch Netherlands has developed an innovative, 2-L PET "mini-keg" package that allows consumers to enjoy the full beer experience from their easy chairs. The patented "Cheersch" bottle is drafted from a handy bottle with a reusable tapper kit. Blow-molded on equipment from **Sidel Group** (www.sidel.com) and patented by Grolsch, the bottle can be resealed and kept inside a home refrigerator door for up to two weeks after opening.

Until now, PET-bottled beer has not been particularly successful in the Dutch market, but the custom Grolsch container's tap-valve stays under high pressure to keep the beer fresh and fizzy. Made from a special PET resin blend perform, the bottle has a custom-made neck design, which was necessary for a snug fit between the bottle, its valve and the tapper. The tap unit is a one-time purchase and needs no electricity to operate. Sidel had responsibility for the whole bottling line including its Eurotronica FM-LT filler, a Rollquattro labeler, Robokombi palletizers and depalletizers and conveyors. **Coster** (www.coster.co.uk) produces the valve inserter and closure unit.



Broken-down coding and marking equipment? Call Squid Ink. Count on

design trends

Jolly-good rum bottle

Three-D Spirits, Inc., Petaluma, CA, has introduced Jolly Roger, what it says is the first and only coconut and key-lime rum. The premium, 50-proof rum blends premium Caribbean rum that is distilled from pure Caribbean sugarcane with all-natural coconut and key lime flavors. When president Dan DaDalt started Three-D in 1996 with his first product, REDRUM tropical fruit-flavored rum, he decided on a reverse-taper bottle with the word REDRUM debossed in large letters running up the side. Jolly Roger is the third product in the line and uses the same bottle. DaDalt worked with glass distributor **Demptos Glass** (www.demptos.com) to source the first bottle and, after Demptos was bought by **Saxco, Intl.** (www.saxcointl.com), it worked with Saxco for subsequent products. Saxco sourced the Jolly Roger bottles from **O-I**, (www.o-i.com) in Europe. Because Three-D wanted white bottles, O-I sends them to **Quest, LLC** (www.quesstllc.com), who applies an organic, water-based powder coating. The bottles are transported through alehr oven, which evaporates the water and adheres the coating to the bottles. Quest also applies front and back pressure-sensitive labels, which are supplied by **Tapp Technologies, Inc.** (www.tapptech.com), to the bottles. The front label features a matte-varnish overcoat with an embossed foil border, a crossed swords design and other elements. Tapp prints the ink portion of the four-color front labels on uncoated vellum paper from **Avery Dennison** (www.averydennison.com) and applies the foil and embossing elements using a finishing press, after which the labels are die cut. The stamping and embossing dies are supplied by **DeCrevel Engraving** (www.decrevel.com).

The back labels are flexo-printed in two colors. Caps are supplied by **Alcan Packaging Capalux, Inc.** (450/469-0777).

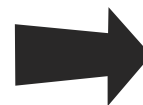
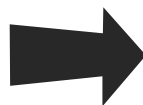
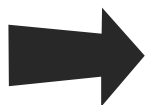


Hot-fillable bottle quenches a thirst for Hispanic tea

To launch Tomandote™, a brand name that combines two Spanish words "tomando" and "te," which mean "drinking" and "tea," respectively. Tomandote is being called the first Hispanic-inspired, ready-to-drink tea line. Marketer Mongo, Inc., Moorpark, CA, is opting for **Amcor's** (www.amcor.com) 16-oz long-neck PowerFlex™ PET bottle. About a year ago, Mongo's director Frank Ruvalcaba, realized that there weren't any commercially-available RTD teas in the market that were based on traditional Hispanic formulas.

"I've drunk lemongrass tea since I was a kid," he says. "There was something about the way that my grandmother used to make it that made it a little more special. As I become an adult, I learned how to brew the tea at home, but it was too much of a hassle to bring it into the office," explains Ruvalcaba. "That's when I came up with the idea to bottle it."

Before Tomandote could be commercialized, Ruvalcaba had to find the right bottle. The product is hot-filled, so Mongo thought of using a PET bottle that had ribbed sidewalls. "We were pleasantly surprised when we found out about Amcor's PowerFlex. The bottle looks like it's glass," Ruvalcaba points out. The patented panel-less design can be easily hot-filled at temperatures to 185 deg F though it has a completely smooth label panel. The bottle absorbs the vacuum created by hot filling via its specially designed base. A unique diaphragm within the base draws upward as the liquid cools. It has the geometric characteristics to enable the inverted cone shaped diaphragm to deflect upward as the vacuum is created. The stock, 16-oz long-neck design has a 38-mm finish.



our systems for high reliability and low maintenance.

SQUID INK

800-877-5658 • squidink.com

See us at WestPack Booth #5329

design trends



V8 goes to vending

For the 70 percent of Americans who don't get enough vegetables every day, there are now fewer excuses. Campbell Soup Co., maker of V8® 100-percent juices, has made it even more convenient for people to get their vegetables on-the-go by distributing several of its V8 juices to vending machines for the first time. Campbell created a new 12-

oz PET bottle that will enable the company to offer the popular juices in approximately 15,000 vending machines across the U.S. The single-serve refrigerated juices will be managed by Coca-Cola Enterprises' leading distribution system. The bottle, from **Amcor** (www.amcor.com), is topped with a bright red twist-cap from **Silgan White Cap Americas**

(www.silganwhitecap.co). **Fort Dearborn** (www.fortdearborn.com) provides the PETG shrink sleeve bottle label, with which it prints the familiar V8 vegetable graphics. Campbell knows that demand for health-promoting, functional beverages is up and Mintel Intl. says it's going up another 19 percent by 2011, so Campbell's timing looks just right.

PICK IT, PACK IT, STACK IT MOTOMAN CAN HANDLE IT!



Moving your product isn't always an easy task.

Motoman offers complete robotic solutions to meet your packaging needs. With our comprehensive line of material handling robots, infeed and outfeed configurations, vacuum stations, sheet dispensers and modular grippers, we provide reliable, low-risk solutions that deliver enhanced quality, productivity and ROI. Motoman's experience encompasses upstream and downstream operations, including case erection, pack-out, taping, palletizing and stretch-wrapping.



IT'S YOUR MOVE...

visit motoman.com
for more information.



www.motoman.com

A WORLD OF AUTOMATION SOLUTIONS
MOTOMAN
a YASKAWA company

See Motoman Robots at ATX Booth #4111

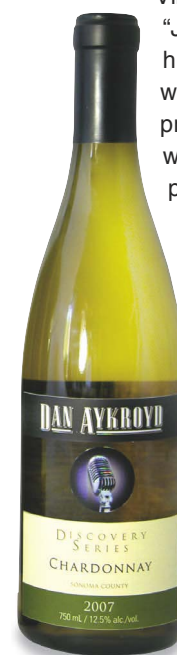
Dan Aykroyd Wines pour into the U.S.

Canadian-based Dan Aykroyd Wines are entering the U.S. marketplace with two new Sonoma-produced varietals, including a Discovery Series Chardonnay and a Cabernet Sauvignon. The wines are made in partnership with the vintners of the Santa Rosa-based DeLoach Vineyards, owned by Jean-Charles Boisset, which will also serve as distributor for the Dan Aykroyd Discovery Series.

The wines will retail between \$17.99 and \$19.95. "Dan's close involvement during the creation of these special cuvées alongside our winemaking team has borne wines that complement the unique style of each partner," says Boisset.

This venture is the first international extension of the Dan Aykroyd Discovery Series wines that came about as a result of a conversation between Aykroyd and award-winning Sonoma wine producer, Boisset. Family Estates. "I am a big fan of the wines that are coming out of the Sonoma appellation, specifically DeLoach

Vineyards," says Aykroyd. "Jean Charles and his incredible team of winemakers consistently produce outstanding wines for which I am proud to attach my name." The two wines will initially be available in California with select distribution in other markets including the House of Blues, which Aykroyd cofounded. A national rollout is planned early in 2009.



comment

John Kalkowski, Editorial Director

Despite downturn, these trends will affect packaging

Each new year marks a period of renewal. It is everyone's chance to start over. But some developments take years to evolve, and the scope of their importance often is not immediately apparent. These are called trends. So, in my prognosis for 2009, here are six megatrends likely to have a growing impact on packaging:

1. Sustainability. With a weakening economy, many might think that sustainability would be cast aside as companies pare costs. Consumers and packagers now understand that packaging resources aren't limitless. However, as Lynn Dornblaser, an expert in trend analysis at Mintel Intl., says the sustainability practices most likely to survive the downturn are those that will have a financial benefit for the end users, such as downgauging and reshaping packages.

2. Automation. Recent PD surveys on automation indicate packagers will continue investing in automating their packaging lines. The reasons are simple: reduced labor costs; increasing flexibility; and boosting efficiency—all key to staying in business.

3. Private Labeling. A Citigroup survey showed that private-labeling sales have increased 8.3 percent in 2008. Dornblaser reports a real change in consumer sentiments. They want quality at value prices. Increasingly, private-label products give buyers more choices for premium products.

Many retailers no longer offer generic products that imitate national brands. Retailers like Target, Safeway and Wegmans have multiple tiers of their own products. Increasingly, they utilize captive brands sold only at a single retail chain, such as CVS or Target.

4. Convenience. Busy consumers will continue to demand packaging that offers convenience. Dornblaser says packaging that makes a product easy to prepare will grow dramatically. However, she says that it's likely that sales of multipacks and portion-packs will slow as consumers look to stretch their dollars.

5. Increased shelf life. Packaging technology that enhances shelf life will be in demand. Consumers want fresh foods, beverages, medicines and household products no matter how long these have been in the closet. Other features that reduce spoilage after opening, like zippers and reclosures, are likely to be hot.

6. Globalization. While offshore production may decrease due to slowing international trade, multinational companies like Coca-Cola, Nestlé and Procter & Gamble will seek international continuity in branding and make their packaging similar, no matter where it's sold.

John Kalkowski

What would you put in these? Imagine the Possibilities...

*Composite can manufacturer
for over 72 years*



CANFAB
PACKAGING

Call or visit us at:
www.canfabpkg.com
sales@canfabpkg.com
1.888.5.CANFAB

new products equipment

305 Never
Looked So Good!



Introducing the SATO D500 Direct Thermal Printer

With prices that begin at \$695 for 305 dpi printing, the SATO D500 Series weighs in with GREAT PRICE PERFORMANCE!

The D500 Series, built SATO tough and dependable, offers:

- 305 dpi at a 203 dpi Price!
- SATO and PCL Programming Languages On-board
- Cost-effective Direct Thermal Technology
- Clamshell Design with Easy View Media Window
- High Lift Print Head
- And Don't Forget the Great Price!

Act Now.

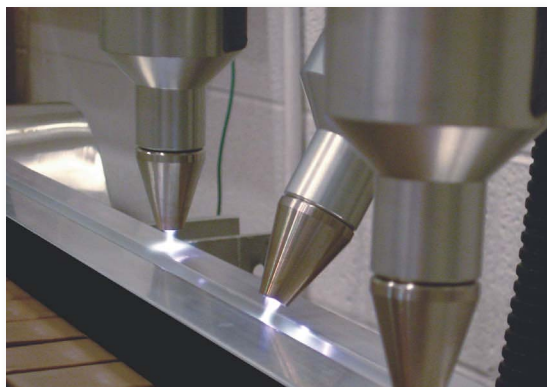
Leave the lightweight class of printers to others and select the D500 Series as your next smart investment in printers.

Visit www.satoamerica.com/D500 and see more reasons why value never looked so good!

See us at WestPack Booth #4942

SATO
DCS & Labeling Worldwide
www.satoamerica.com

Marking & Coding



Surface-treating press New Dyne-A-Mite™ IT Elite etches, cleans, activates and sterilizes a wide variety of conductive and nonconductive material surfaces. Its blown-ion plasma surface treatment helps promote adhesion for painting, bonding, casting, flocking, labeling, coating, marking, extruding and over-molding applications. Quality control is self-regulated by a real-time plasma-integrity monitoring system for process variables. The modular system is upgradable with up to four surface-treatment heads with quick connect/disconnect capability. A touchscreen interface is available to provide local control and connectivity to network control systems. **Enercon Industries**, 262/255-6070. www.enerconind.com



Bar-code printer The new LM4e Series bar-code printer features entry-level pricing and includes standard features. The printer's applications include designing and generating labels for shipping, compliance, specimens, pharmacy items, product identification and cross-docking, as well as tickets and tags, inventory control and asset management. The printer features an all-metal chassis, 6-in./sec print speed, 203 dots/in. or 305-dpi models and a quick load and go consumable design. USB, 802.11g, parallel and serial interfaces are also available.

SATO America, 704/644-1650.
www.satoamerica.com

Heat-transfer fluid system The redesigned HF-2 Series heat-transfer fluid system has been updated with improved performance, energy efficiency and reduced space requirements for large flow and higher heating capacity applications. The system provides accurate temperature control up to 600 deg F. Has a 12-kw heater canister mounted in the co.'s traditional "horizontal forced-fluid flow" design to reduce internal piping and limit potential leak points. The system also features a continuous-flow cool-oil reservoir design to ensure accurate and safe process temperature control and cooling.

MOKON, 716/876-9951.
www.mokon.com



Labeling system The Inline 6200 labeling system has a stainless-steel cabinet and PLC controls designed for heavy-duty front/back-, side panel-, or wrap-labeling applications. Among its standard features are a rotating control panel, a 12-ft chain conveyor with stainless-steel side plates and a segmented top-trap hold-down to keep products in place. Other standard features include automatic speed following for product surface profiling, a variable-frequency drive and dual applicator mounts with tilt adjustments for maximum versatility.

Label-Aire, 714/441-0700.
www.label-aire.com



NEW... Leibinger

Inkjet Printing Perfected

JET3

EASY HANDLING

Windows™ Embedded
Drag & Drop Editing
Print 5 Lines Text
Font Editor
Graphic Editor
Rotated Print
Barcodes including Datamatrix

EASY MAINTENANCE

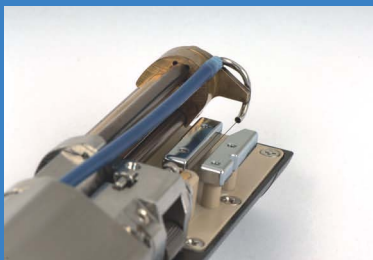
No Cleaning for Start-up
Typically Months Between Head Cleaning
Simple Annual Low Cost PM
Never Requires Flushing
2 Year Warranty

EASY INTEGRATION

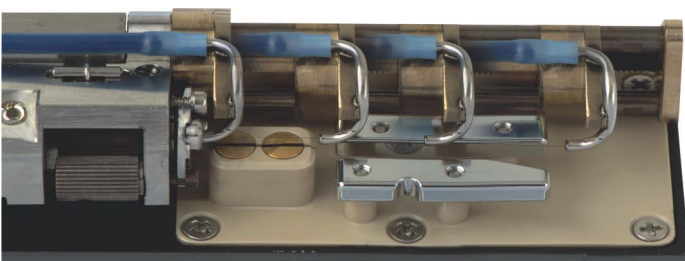
Ethernet
USB
Serial
Digital I/O
SD Card

EASY GREEN

RoHS Compliant
ECOSolve Solvent Recovery Option
Clean Refill System



Sealed Nozzle Technology



LEIBINGER

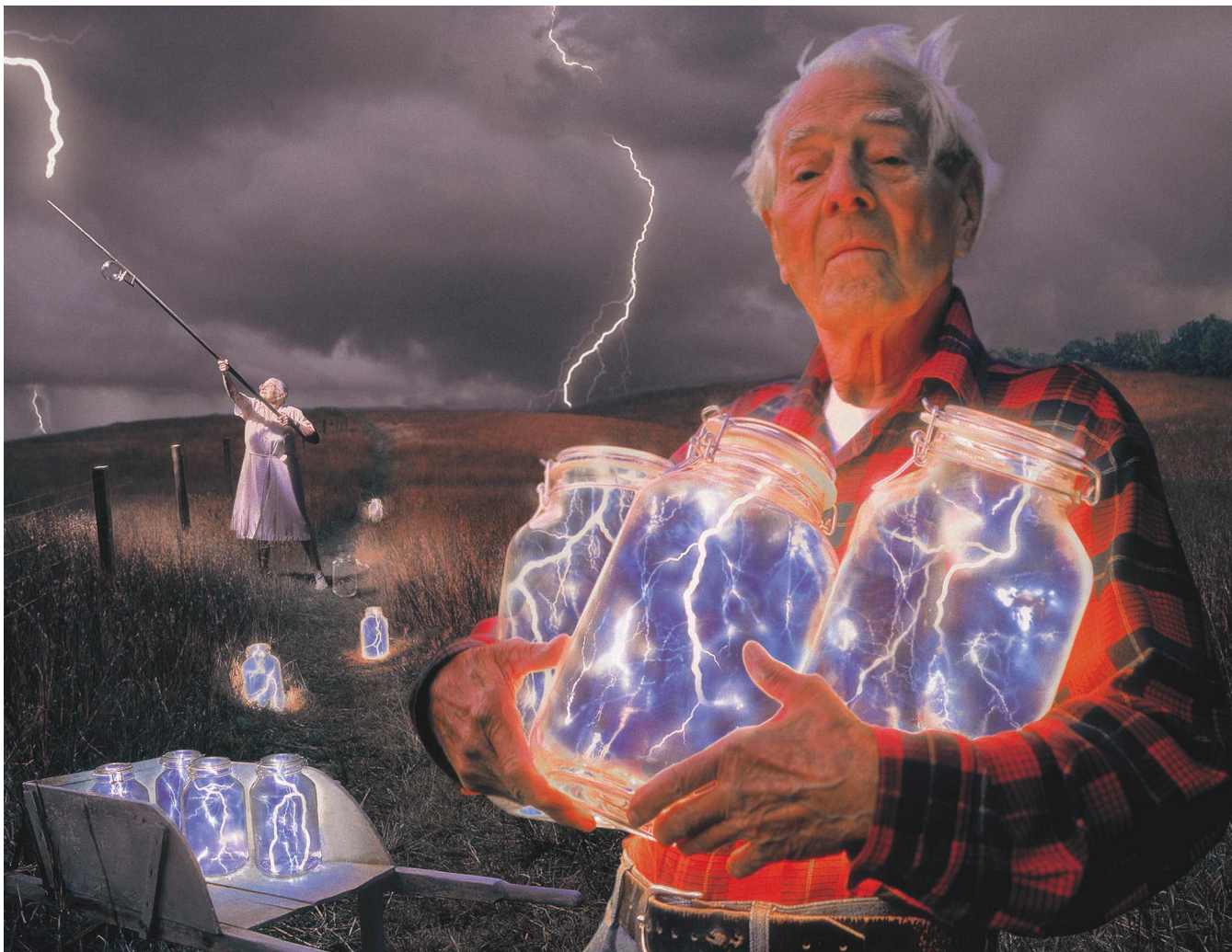
www.leibinger-group.com
262.642.4030

new products equipment

In-line printer The EasyFlex pharmaceutical in-line printer has a web width of 260 mm and is suitable for installation on small- and mid-sized blister machines, whether they're intermittent- or continuous-motion. The printer combines functionality and quality and boasts a low cost of ownership, thanks in part to the complete absence of format parts, notes the co. Also incorporates a format-free print cylinder, meaning that a single universal cylinder can be used for every job, irrespective of indexing length. Other attributes include print start/stop as a one-touch operation, while environmentally-friendly UV inks have a consistent viscosity to ease replenishment and eliminate spillage.

Hapa & Laetus, Inc., 974/983-2700.

www.hapa.laetus.com



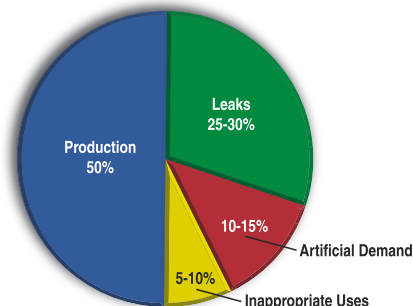
At Kaeser, our tradition of saving energy goes back generations.

Energy costs have never been higher. That's why it's so important to get maximum efficiency out of your compressed air system. And with as much as 50%* of compressed air being wasted, you could save a bundle.

Trust the specialists at Kaeser to find energy savings by reducing inefficiency in your air system, while also cutting maintenance costs and delivering process improvements. We are the industry leader in conducting *true, comprehensive* air system audits, so you know you'll get the best possible advice and recommendations.

Visit www.kaeser.com/ada to see if you'll benefit from an Air Demand Analysis (ADA) - and how we've helped other plants significantly improve their bottom line.

See us at WestPack Booth #5415



*Only 50% of compressed air is actually put to productive use.**

**KAESER
COMPRESSORS**

Built for a lifetime.™

Kaeser Compressors, Inc., Fredericksburg, VA USA ■ (866) 516-6888 ■ www.kaeser.com/ada

* Source: U.S. Department of Energy; Compressed Air Challenge®. ©2009 Kaeser Compressors, Inc. All rights reserved.



Right-angle transfer system

The Logistex RT200 right-angle transfer system is a modular, expandable unit that is part of the co.'s new Case Conveyor Solutions (LCCS) family. Featuring interchangeable round and flat bands, the transfer system offers setup flexibility and maximum transferring throughput. The transfer system is designed for high-speed transfer on-the-fly and stop-and-transfer configurations. Features a patent-pending band-cartridge system, an electric or pneumatic lift option and an expandable controls platform with a built-in variable-frequency drive that allows customers to set its belt speed parameters, the co. says.

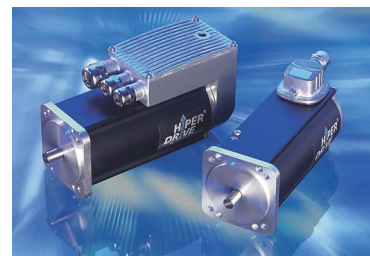
FKI Logistex, 513/881-5239.

www.fkilogistex.com



Format-adjustment drives

HIPERDRIVE® format-adjustment drives enable automated changeover on printing, packaging and metal-processing machines. The HRA25/35 and HDA30/45 drives represent alternatives to manual changeovers using handwheels, in machines with several adjustment axes. The drives can also act as alternatives to servo motors and other drive combinations. Their housings completely encompass all the components usually required in such an environment.



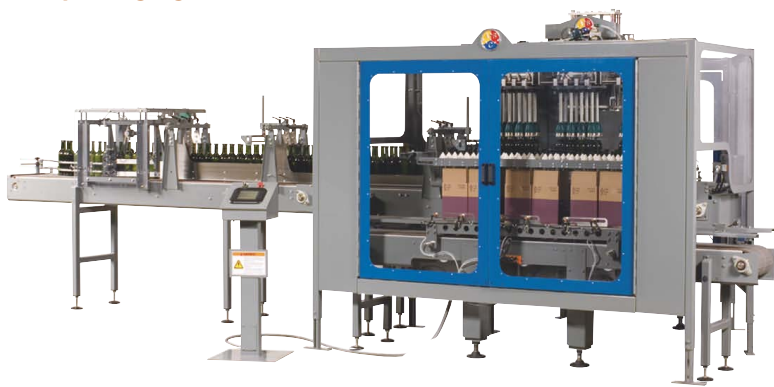
The drives can also act as alternatives to servo motors and other drive combinations. Their housings completely encompass all the components usually required in such an environment.

SICK USA, 952/829-4728.

www.sick.com

Packer/unpacker The new Model 101 pick-and-place packer/unpacker was specifically designed to provide precision control and deliver superior product handling while maximizing packaging quality. This new model gives packagers the option to thin-wall a container, improved bottle stability for lightweight plastic containers, reduced risk of breakage when handling glass and secure handling of heavy, industrial-sized containers. The unpacker provides uncasing or case packing of cans, cartons, glass or plastic containers. Offers a broad speed capability and a small footprint that allows easy installation on the packaging line. The new servo-operated placement head is precisely controlled by PLC for smooth, no-drop container placement, ensuring maximum container integrity.

A-B-C Packaging, 800/237-5975.
www.abcpackaging.com



Hot-fill lines The co.'s hot-fill lines accommodate a variety of food and bakery products such as soups, sauces, stew, cheese and peanut butter, as well as nonfood applications like cosmetics and grease. The lines feature heated filling machines to maintain the proper fill temperature. Heat options include insulated hoppers, jacketed and insulated hoppers that accept plant-supplied hot water and self-contained hot-oil heating systems with multi-zone control to heat the entire filling flow path. The self-contained systems can maintain plus or minus one degree at temperatures up to 210 deg F.

Hinds-Bock Corp., 877/292-5715.
www.hinds-bock.com



Multi-packing erector

The F550 multi-packing erector handles many types of shelf-ready cases including RSCs, HFCs, two-piece display cases and trays. The machine assembles a low tray and a half case, which can then be arranged so products can be placed directly onto supermarket shelves. The F550 can be easily integrated instead of a traditional case former on either new production lines or existing ones to meet requirements, says the co. Its case-extraction system reportedly ensures positive forming.

Cermex, Inc., 678/221-3570.
www.cermexinc.com



JUST PLUG IT IN.

**THINK INKJET.
 THINK SIMPLE.
 THINK ONCODE.**

It just makes sense. Born from the leading marking equipment manufacturer **KBA METRONIC** and the leading ink supplier **GEM GRAVURE**, Oncode is simply the clear choice in product coding systems. Really, just plug it in and it works. No complicated setup. Fast, reliable, intuitive & simple to use.



- Continuous inkjet
- Intuitive interface
- Easily networked
- Multiple line operation
- Pigment or dye based ink
- A rainbow of colors

For more information call **781.878.0456**
 or visit **WWW.ONCODEINK.COM**

ONCODE
 MARKING SIMPLIFIED

Created by two leading product identification companies

World Class Labeling Systems Made in the USA

Every facet... of our manufacturing process is housed under one roof. We offer the most automated, state-of-the-art manufacturing facility in the industry—resulting in an impeccable finished product.

From Semi-automatic applications to the most demanding high speed, high accuracy labeling solutions, we understand your needs. And at CTM, supporting our customers before, during and after the sale is paramount.



Front & Back Label Applicator

- Equipped with rugged stainless steel side frames
- Electronically matched top trap ensures optimum system flexibility
- Variable labeling speeds to 300+ Products per minute
- Easily integrates into existing lines or off line configurations

3600 RW Series Applicator

- Reads, Encodes, Verifies, Prints & Applies RFID tags
- Unique reject shuttle mechanism for bad tags
- Supports EPC Class 1, Gen 1 and Gen 2 tags
- Sato or Zebra version available

Contact us today, or visit us on the Web!



1318 Quaker Circle • Salem, OH 44460
Telephone: 330-332-1800 • Fax: 330-332-2144

www.ctmlabelingsystems.com

new products equipment



Checkweigher A new checkweigher/electronic counting and weighing scale is designed with the co.'s patented variable-capacitance technology. Provides up to 1 million internal increments for precision in small-parts counting and up to 500,000 user-selectable displayed increments for accurate measurement. Slated for material handling, inventory control and packaging applications, it allows users to simply select a target weight or count for filling operations and enter the over/under tolerance. The checkweigher automatically signals the operator when the load is on target. The user interface provides readable prompts to guide even an inexperienced operator through check weighing tasks.

Sentra Systems, Inc., 800/257-3872.

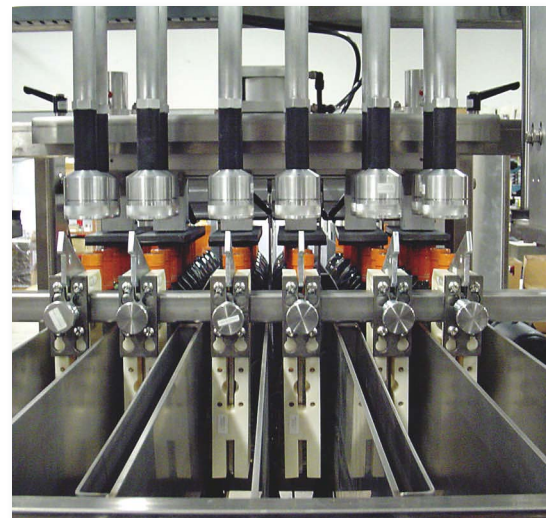
www.sentra.com



Open-mouth bagger The PTK-2700 high-speed, open-mouth bagger is an advanced, rapid and versatile dual-spout system designed for bagging powdered or granular materials into open-mouth bags. The bagger reaches speeds up to 40 bags/min and offers a fast and easy size changeover of 5 min or less. It respects hygienic standards achieved by dust-free bagging and total bag control. Handles paper, PE and woven PP bags (pillow-type or side-gusseted) and can accommodate most closing systems.

Premier Tech Systems, 418/868-8324.

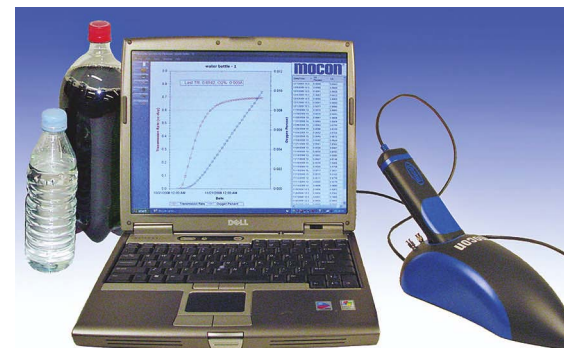
www.premiertechsystems.com



Soft-placement module New soft placement modules for secure, efficient packing of bottles in a range of industries are compatible with several of the co.'s case-packer models. The soft-placement module with advanced motion control gently lowers bottles into cases or trays without damage to the label, closure or container integrity. With its steady, precise placement, the soft-placement module eliminates bottle-to-bottle scuffing and breakage, with or without partitions. The unique servo system accelerates bottles downward, then comes to a gradual, decelerated stop as the heels of the bottles reach the bottom of the case. The packed cases are then indexed to the discharge conveyor and the soft-placement module ascends into position for the next cycle.

Standard-Knapp, 860/342-1100.

www.standard-knapp.com



Oxygen analyzer The OpTech-O2 platinum, a new standard-setting oxygen analyzer, uses optical fluorescence technology coupled with electronics to give off light in an amount directly related to the amount of oxygen present. This fluorescence can then be read optically, making it suitable for nondestructive permeation analysis, headspace and dissolved oxygen analysis as well as leak determination in flexible and rigid packaging. For nondestructive permeation analysis, a small, platinum-based "spot" encased in a substrate, is inserted into a package, either in the package's headspace or in liquid in the case of a liquid-based product. Change in oxygen due to permeation is then read externally over time through a sealed package using a hand-held optical reader.

Mocon, 763/493-6370.

www.mocon.com

new products materials

Flexible packaging



Wrapping films Revolution® meat and produce wrapping films improve yield and offer higher performance at lower costs, the co. states. The wrapping films draw on the co.'s double-extrusion process and proprietary resin formulating capabilities for this thin-gauge, high-performance film. Utilizing the product can lower packaging expenses, while maintaining outstanding performance characteristics for both in-store manual wrapping stations and high-speed automation, the co. says.

Pliant Corp., 866/332-4038.
www.pliantcorp.com

Solvent-free overwrap

Triad is a high-barrier, solvent-free overwrap that has been developed using the company's proprietary, metallocene-based sealant chemistry. The sealant layer bonds to foil—which can be challenging—without the use of solvent or water-based materials. The extrusion-coated lamination of polyester, foil and metallocene has been engineered to generate an exceptionally strong hermetic weld seal in high-speed, chemically-sensitive, pharmaceutical applications, the co. notes. With regulatory agencies continuing to press against the use of solvent-based materials (and those containing isocyanates) in pharmaceutical applications, the structure was developed to meet these objectives without sacrificing performance. The water-based bonding agents are designed to avoid the use of solvents which may not hold up well with products that contain water or require a high bond. Triad helps address those issues by using chemically-clean bonding agents and sealant layer to offer high moisture and oxygen barrier at sealing speeds of more than 100 linear ft/min.

Rollprint Packaging Products, Inc., 508/520-9784. www.rollprint.com



Pouch packaging Bag Without a Box is designed to eliminate the paperboard carton from bag-in-box packaging. The 3- and 5-L pouches feature an assortment of tappers from ITW Fastex are tailored to the dispensing and handling properties of the product, from retort, to high-acid aseptic, to hard-to-hold chemicals. Unlike the collapsing pouches inside bag-in-box cartons, these reinforced double-gusseted pouches remain standing throughout their use, though the tops lower as product is dispensed to minimize headspace and keep contents fresh. The laminate pouches also provide outstanding oxygen barrier properties at a fraction of the weight and space required by standard rigid containers. The co. says the new pouches can be filled through the spout ring on most existing bag-in-box filling line with minor adjustments.

CLP Packaging Solutions,
877/888-1888. www.clp-packaging.com

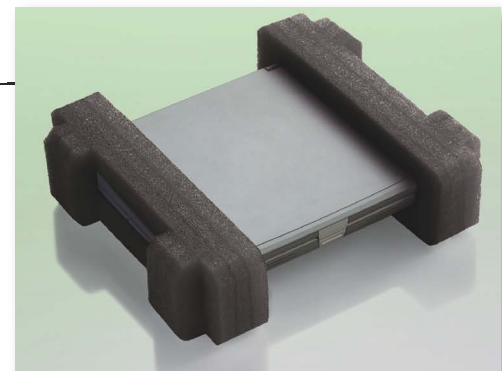


Foam plank

PolyPlank® Renew™ is a new, medium-density foam plank grade that contains up to 60-percent pre-consumer-recycled content. The closed-cell PE plank is an alternative for foam plank cushioning applications with environmental benefits and with excellent cushioning performance.

Because up to 60-percent regrind is used, the decreased dependence on 100-percent virgin resin contributes to the conservation of petroleum-derived raw materials. This foam plank provides shock and vibration protection during transport, is moisture-resistant and has good flotation properties for recreational and sporting applications as well as good insulation properties where required, according to the co. The product is available up to 48-in. wide and in thicknesses ranging from ½- to 3 in.

Pregis Corp., 877/692-6163. www.pregis.com



FLEXIBLE

(804) 520-5400

www.blueprintautomation.com

Join us online to learn about our F³ commitment!

F³ FLEXIBLE

new products materials

Tube, applicator The new Polyfoil® tube with Pinpoint™ applicator for the biotech, pharmaceutical, personal-care and cosmetic industries is made completely of pharmaceutical-compliant materials. The high-barrier tube protects sensitive, pharmaceutical-grade formulations from light, moisture, oxygen and organic and chemical substances. It's corrosion-resistant and has high esthetic value, thanks to all-around printing. The applicator, manufactured by Seaquist Closures, is a cone-shaped silicone valve that provides clean, precise dispensing of even the smallest amounts of lotions, creams, gels or ointments. After pressure on the tube is released, the silicone valve automatically closes. This prevents any product residue from leaking out, keeping the package hygienically clean at all times. The product can be applied directly from the tube onto the skin to further reduce the risk of contamination and the soft tip of the valve makes for a smooth, comfortable application.

Neopac Packaging Solutions, 908/604-0132. www.neopac.ch



Lenticular flexographic printing Using the Kodak Flexcel NX digital flexographic system from Kodak's Graphics Communications Group (GCG), Pixalen Studio, a lenticular prepress service, and lenticular lens extruder Pacur have developed a system for lenticular flexographic printing. While printing lenticular effects on flexographic presses has been attempted before, issues around print resolution, dot size and press registration have prevented its success. The introduction of higher resolution imaging devices, combined with interlacing technology and rolled lens stock, has now made lenticular flexographic printing a reality, the co. states.

Lenstar.org, 952/292-0799.

www.lenstar.org

PP film The Pentafood® film product line has been extended to include Pentafood® W-5129 rigid PP film. With a heat deflection temperature of 275-deg F, the W-5129 film is engineered to offer the highest heat-resistance available in a PP film in the marketplace, the co. reports. Suitable for microwave applications or foodservice hot-hold cabinets, this film provides enhanced stiffness for down-gauging opportunities. The W-5129 film can also be processed on conventional PP thermoforming machinery, and it can be sealed to a variety of standard lidding materials. It's available in a variety of standard colors and is compliant with applicable FDA standards for direct-food contact.

Klöckner Pentaplast Group, 540/832-3600. www.kpfilms.com

Nothing creates a 'Buzz'...

Visit us at Westpack 2009 – Booth No. 5270.

Elastomers and resins Vistamaxx™ specialty elastomers and resins targeted at flexible and rigid food packaging applications have received approval from the U.S. Food and Drug Administration under the Food Contact Notification process. These grades, used in compounding and films, are also compliant with the compositional requirements of the EU-Directive 2002/72/EC for use in contact with food. Based on the co.'s Exxpol™ metallocene technology, the specialty elastomers and resins feature sealability, adhesion, elasticity, flexibility, clarity and toughness. They also exhibit excellent compatibility with both PE and PPE and are used as blend partners.

ExxonMobil Chemical, 281/870-6607. www.exxonmobilchemical.com



PET cosmetic jars Clear plastic cosmetic jars in three sizes with 58-mm continuous-thread neck finishes offer an alternative to glass jars. The small, wide-mouth containers hold 2-, 3- and 4 oz and are built from the same 18-g preform. The new jars are designed for high-end personal care and bath

products sold in small quantities to keep them at reasonable price points; they're also suitable for travel-size quantities of face and body scrubs, bath salts, hair pomades and gels, body butters and other thick creams. The 2- and 3-oz sizes are small enough to be permitted in carry-on luggage because they meet the Transportation Safety Administration's limit for liquids and lotions. The jars come in many colors and standard colors of clear, white, dark amber, light amber, dark green and cobalt blue with no minimum order.

Alpha Packaging, 314/267-3149. www.alphapac.com

Reclosable medication wallet

The "Triquilar" medication wallet is a patient-friendly package that has the convenience to support the proper use of contraceptives and other medications in pill form. The reclosable wallet is flat and handy, making it easy to carry anywhere. It has the form of a miniature folder, consisting of three sections: a blister-card holding the pills; patient information; and dry-peel calendar stickers. These are preprinted and can be flexibly applied to the blister-card to help the user remember when to take the pills. The labels are easy to remove, and the resulting free space can be used for personal notes.

August Faller KG, 49 7681 405-0, www.august-faller.de



Biodegradable resin Mirel™ producer reportedly agrees to supply biodegradable resin to a bag mfr. for the production of BioTuf™ compostable film. Bags formed using the resin are said to provide improved toughness and tensile properties yielding higher performance and compostability. The resin is biodegradable in a wide range of environments.

Metabolix, Inc., 617/583-1700. www.metabolix.com

Heritage Plastics, Inc., 800/245-4623.

www.heritage-plastics.com

like Powerful Packaging



What could be more natural than Burt's Bees' earth-friendly personal care products, contained in 'sustainable' specialty packaging from J.L. Clark? As the Burt's Bees brand has taken off in the natural personal care products category, so too has J.L. Clark's role in providing a wide range of highly decorated tins and injection-molded containers.

In today's personal care, health and beauty markets, there's nothing sweeter than the sustainable, remarkable, buzz-building packaging from J.L. Clark. **J.L. Clark. The natural choice.** Call 1-815-961-5725. Or visit www.jlclark.com.

J.L. CLARK
a CLARCOR company
Powerful Packaging™

Counting Calories

INTEGRATED VF/F/S SYSTEM sticks to strict measurements for Ocean Spray's Craisins pouches.

Linda Casey, Associate Editor

Every autumn, fruit attached to long-running vines in bogs and marshes throughout North America deepen into an intense red. This coloring signals to the fruit growers, which supply Ocean Spray Cranberries, Inc., that the berries have reached the peak of flavor and are ready for harvesting.

The majority of these berries are harvested using a dramatic, multi-day, wet-harvesting process that begins when a grower floods a cranberry field with up to 18 in. of water. The second day of harvesting begins with water wheels separating the deep, red fruit from its tethers below the water's surface. Once freed, the berries, propelled by the pockets of air contained in them, crest the water's surface. The growers manually corral the bright floating fruit before it is conveyed out of the bog and truck it to Ocean Spray's processing facilities, where the berries are used to make a variety of products including juice drinks, cranberry sauce and increasingly sweetened, dried cranberries.

Sweet treats

Many consumers know sweetened dried cranberries simply by the Ocean Spray brand name, Craisins®. The company engineers prefer to use the more precise term, sweetened dried cranberries, or its initialism, SDC.

At its production facilities in Middleboro, MA, Ocean Spray uses a patented technology to sort, slice, process and dry the cranberries into SDCs. The SDC operation runs seven days a week, 24 hours a day. The facility packages the product into several different package forms, including 6-, 12- and 48-oz pouches for retail, mass-merchandise and clubstores. Beginning September 2008, the Middleboro plant also started filling a multipack containing six 100-calorie pre-portioned pouches of Craisins®.

While SDCs often appear as ingredients in modern cooks' and bakers' recipes, the fruit also is consumed as a standalone snack. "Consumer research has shown that the number-one consumer usage occasion for the Craisins® brand is snacking," says Courtney Genovese, associate marketing manager—foods, Ocean Spray.



In response to consumer demand for SDCs for standalone consumption as well as the popularity of portion-controlled snacks, Ocean Spray embarked on a more-than-year-long process to create a high-speed, precision filling and packaging line for the sticky fruit.

The packaging-line project was developed and implemented using a team concept. Representatives from Ocean Spray's marketing, research and development, engineering, operations, finance, manufacturing, sales and graphic design departments all contributed to making the Craisins project successful.

Sticky situation

Working with a bevy of suppliers, the team set the project's first challenge. "We challenged the suppliers to meet our objectives for packaging equipment that operates in-line with our existing SDC processing equipment and on-demand," remarks Ocean Spray project engineering manager Joe Benevides. "The major equipment suppliers worked hand-in-hand with our engineering, R&D and operations departments to develop the line layouts and equipment capabilities."

Ocean Spray knew from its work creating previous SDC packaging lines that the volume and stickiness of the product would require special attention. "Because the product is sticky, it builds up on the equipment, especially the scales and packaging equipment," Ocean Spray project engineer Jeff Pratt states. "tna (www.tnasolutions.com) provided some innovative designs that improved our speed and precision for the 100-calorie form/fill/seal operation."

According to tna North America marketing coordinator Maria Mejia, the SDCs' tendency to stick to most surfaces can make vertical transfer very slow or unpredictable. To overcome these problems, tna adapted its robag 3 rotary triple-jaw bagger, which uses a dimple finish on conveying surfaces that raises the product above the main conveyor surface to reduce the products' inherent sticking force. Wire mesh screens also were added to the



bucket doors of the integrated Yamato (www.yamatocorp.com) radial-feed scale on the vf/f/s machine. The wire-mesh screens help reduce contact area on critical transfer areas. These adaptations ensure accuracy so that no more than 100 calories worth of the SDCs goes into each individual pouch; the customizations also enable the vf/f/s machine to run at its top speed, which is of high importance to Ocean Spray because the line operates in excess of 2,000 lb/hr. Ocean Spray's total annual processing capacity is 90 million lb of SDCs.

Safety first

Concerned with more than just SDC consumer waistlines, Ocean Spray engineers also wanted to make sure that there was metal detection before the fruit was dropped into the metallized pouches. "Ocean Spray always considers product safety a top priority," says Benevides. Fortunately, the integration of a Zero Metal Free Zone (ZMFZ) product-inspection system from Mettler-Toledo Safeline (www.us.mt.com/safelineus) is a standard offering with tna systems.

Designed for installation in small spaces, the inspection system can be installed in between a scale and a vf/f/s machine to inspect food items in-flight as they enter the bag. The metal detector's internal cancellation field (ICF) technology uses a patented technique that enables high sensitivity settings, which allows close proximity to stainless steel machinery. ICF technology works by generating two magnetic fields; the secondary magnetic field is created internally and is opposed to the primary magnetic field produced by the detector.

To further ensure the safety of its product, Ocean Spray codes both the individual portion-packs and the secondary packaging with a best-by date. A DataFlex Plus thermal-transfer overprinter from Videojet Technologies, Inc. (www.videojet.com) codes the primary packaging material before filling.

The printer has an 8.4-in. SVGA graphical user interface and color touchscreen with icon-based controls that are designed to be easy to learn. The WYSIWYG job display has a zoom feature to reduce

Ready to start labeling?



Here's where to begin:

- Most Popular of its Kind
- 15-25 Labels per minute
- Labeling from ampules to gallons.



Whether you're an upstart company or any organization with short run labeling needs, the R-310 is the easiest most widely-used labeling machine of its kind.

With production rates of 15-25 labels per minute, you can turn your product into production.

UNIVERSAL

labeling systems

universal1.com
1-877-236-0266



The primary packaging material is coded with a best-by date using a thermal-transfer overprinter.

operator error and minimize the potential for printing incorrect codes. Three levels of password protection provide added security.

Because Ocean Spray's SDC line requires a high throughput, it is

important that the printer has high production-line efficiency and low downtime. The printer's patented direct-drive ribbon technology contains few wearable parts, which increases reliability and minimizes

downtime and costs associated with ribbon breaks. "Additionally, the unit features the simplest ribbon cassette on the market, making changeovers fast, easy and virtually fail safe," says Videojet Technologies,

Inc., North America thermal-transfer overprinter/secondary packaging product manager Phil Pasit. "The 1,000-meter ribbon also is the longest standard length on the market today, so there are less frequent changes and higher production-line efficiency."

Each portion-pack is coded before the pouch is formed and filled. Ocean Spray codes the metalized barrier-lamination rollstock at the speed equivalent of 140 packs/min.

Twice measured

The volume of fruit in each filled portion-pack is checked again by an Ishida DACS-WN-003-SB/PB-1 checkweigher with air-blast rejector supplied by **Heat and Control, Inc.** (www.heatandcontrol.com).

The anti-floor vibration device equipped with the system is designed to cancel out influences from external vibrations to provide more stable, reliable weighing. Other checkweigher features that help ensure that only precisely filled SDC packs reach consumers include a digital filter, digital signal processor and dynamic calibration. Automatic error-detection functions include power-down, photoeye, CPU, conveyor-speed, rejector stop position and zero-error checks.

The DACS-WN-003-SB/PB-1 uses double-beam loadcell weigh

To accommodate the sticky product and ensure accurate weighing, the integrated scale's bucket doors were fitted with wire-mesh screens.

Seal-it, inc.
a Division of
Printpack inc.

Offering sustainable labeling solutions like

EarthFirst® PLA shrink film
made from plants

- ☀ **Made from a renewable resource**
- ☀ **Compostable (ASTM D 6400) and recyclable**
- ☀ **Vibrant print offered in rotogravure or flexographic**
- ☀ **High shrink - up to 75%, low shrink initiation temperature**

**Contact us for
more sustainable
shrink sleeve
solutions.**

800-782-SEAL or 516-935-3965
e: evolves@printpack.com
www.printpack.com

EarthFirst is a registered trademark of Plastic Suppliers.
Ingeo™ is a trademark of NatureWorks, LLC.
The EcoPLA design is a registered trademark of NatureWorks, LLC.





Ocean Spray measures each 100-calorie Craisins® pack twice. A scale is used to weigh the fruit before filling; then, the filled packs are run past a checkweigher, above, left, to ensure only precisely filled packs reach consumers.

sensors that operate at speeds up to 330 times/min. To ease on-site adjustment for installation, the DACS-WN series has a modular design. "The versatility of the Ishida design allows the pre-configured system to handle Ocean Spray's application without any customization," Heat and Control sales manager Brian Barr remarks.

To the top

Conveyors supplied by **Key Technology, Inc. (www.key.net)** carry the pouches to a PSG LEE fill/seal machine Model RG-150 from **PPi Technologies Global [PPiTG (www.ppitechnologies.com)]**. The fill/seal machine places six portion-packs into a premade standup pouch, which like the primary packaging, has been coded with a best-by date using a Videojet DataFlex Plus printer.

While the RG-150 is specifically manufactured for handling open-top, premade, side-gusseted pouches, PPiTG worked very closely with the Ocean Spray team to create a machine that would not require the pouches to be sealed short of the top.

"This RG-150 model will run the standard open-top, side-gusseted pouch where the gusset extends all the way to the top and creates a wide mouth for filling," PPiTG CEO R. Charles Murray explains. "The wide mouth of the side-gusseted pouch allows the smaller pouches to be filled at the speeds required without sticking in the funnel." The fill-seal machine can fill up to 35 standup pouches/min.

Adaptions made by the joint engineering teams include a specialized transition chute made with a proprietary PPiTG design, and a focused pouch vibration and top-down product-plunge assist, which the supplier says helps assure consistent filling at high speeds.



After being coded with a best-by date, the primary packaging pouch material is feed into a vf/f/s machine, left.

Space savvy

The multipacks are put into a shipping container using a All-In-One pick-and-place case and tray forming, packing and sealing system that was originally supplied by **Goodman Packaging Equipment (www.goodmanpkg.com)**. The

equipment manufacturer has since been acquired by **Pearson Packaging Systems (www.pearsonpkg.com)** in an agreement signed in December 2008.

Designed to provide a corrugated reduction and flexibility in case design and Continued on page 24



No one puts pressure distribution in your face like Fujifilm Prescale.

Fujifilm Prescale film is a step ahead of every digital pressure analyzing system. Our film is so thin and pliable, it can be cut into any size or shape to fit your specific requirements – not possible with digital systems. It can analyze the pressure of a surface area that's as tiny as a pinhead. Its range of pressure completely squashes the competition (2-44,000 psi vs. digital's 1-25,000 psi). And Prescale film



can withstand much higher heat ranges: up to 800°F compared to digital's 140°F. So for your next industrial application, make sure you go with the only film-based pressure analyzing solution afoot: Fujifilm Prescale.

For more information, call 1-800-446-5450 ext. 7720, email ndtinfo@fujimed.com or visit www.fujiprescale.com.

PRESCALE

NDT SYSTEMS

FUJIFILM

BORINGLY RELIABLE.



Leader coding and marking systems are built to last in the toughest environments.

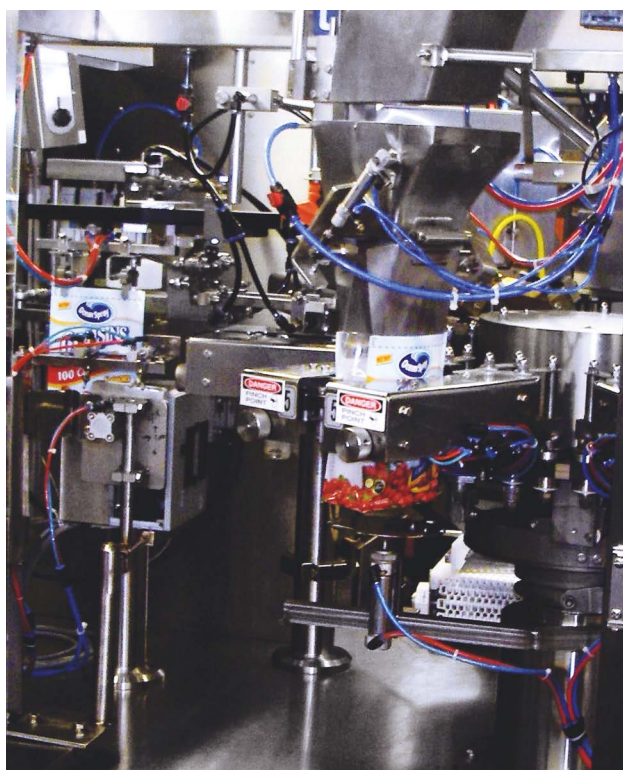
Take our Ranger ink jet system: great for scannable bar codes, product information, and logos. Heavy-duty cabinetry and printhead brackets ensure continuous operation. Gasket seals and protected data connections make it splash-proof and dust-resistant, minimize downtime and service calls.

The Ranger is predictable, productive, and profitable. Not too exciting, but now you have time for crossword puzzles.



LEADER®
CODING AND MARKING SOLUTIONS

For a distributor near you, call 1-800-898-8334, or go to www.leadercorp.com.



The secondary packaging for the multi-pack is a pre-made, side-gusset pouch. Above, a fill-seal machine deposits six, filled, 100-calorie packs into each standup pouch. Right, filled standup pouches travel down a conveyor to the casepacker.



efficient packing within a single frame, the All-in-One top-load packing design allows the machine to pick and place both flexible and rigid containers in a variety of pack patterns before sealing the top of the shipping container with hot-melt adhesive.

"The key feature for this machine is its capability to pack a top-load wraparound-style case in a small footprint machine," Goodman Packaging president Billy Goodman explains. "Top-load packing allows for any type of package, flexible or rigid, to be packed into the case in a variety of pack patterns. The wraparound case style provides 'sustainability' by, in most instances, reducing the amount of material used while providing greater flexibility in the style of case presented." Pearson Packaging now distributes the All-in-One.

Before the cases are hand-palletized for

shipment, they are coded using an Imaje 4040 ink-jet printer from **Markem-Imaje** (www.markem-imaje.com.) The coder's piezo-electric printhead images at a vertical resolution of 180 dpi at speeds up to 150 feet/min. It has a WYSIWYG display on a 10.4-in. VGA screen.

Keeping it lean

To optimize the packaging line's operation, Ocean Spray brought in systems integrator **Superior Controls, Inc.** (www.superiorcontrols.com), which installed a manufacturing execution system (MES) that will allow Ocean Spray's team to continually monitor and improve the packaging line's operation.

The MES system installed its Proficy Plant Applications from **GE Fanuc Automation, Inc.**

Encouraging peeping Toms, Ricks and Marys

When **Printpack, Inc.**, (www.printpack.com) was approached by Ocean Spray to provide packaging for its 100-calorie Craisin® packs, the company was presented with four major challenges. The primary, individual, barrier pouches needed to assure product freshness and accommodate high-quality graphics. The secondary package needed to be lightweight, with a stable, carton-like base that would allow it to stand up on the shelf; it would need to accommodate high-speed, automated, filling of the inner pouches; finally, the secondary package needed to provide high-quality graphics for shelf appeal while allowing visibility of the inner pouches.

For the primary packaging, Printpack supplies a metallized barrier-lamination material. The pouch material, which is supplied as rolls for use in Ocean Spray's tna vf/f/s machine, is flexo-printed in 8 colors.

For the secondary packaging, Printpack recommended its preformed Showpack® pouches.

The laminated, premade pouch has a full-open top and a base that has bottom fin seal. According to Printpack, Inc., market development manager Jeff Boekeloo, the Showpack's "true-flat" bottom design results in a stable pouch on-shelf and the pouch's full-open top, nonterminated side-gusseted design, coupled with a tear notch, enables high-speed, automated filling of the portion-packs. To provide vivacious graphics displaying clean, bright blues and deep reds, Printpack uses a reverse-, 8-color flexo-printed design over a high-opacity white opaque lamination on the pouch's front, back and bottom. A clear lamination is used on the side gussets, which provides consumers with an opportunity to peer through the secondary packaging's "window" and view the portion-packs.

More information is available:
Printpack, Inc., 404/691-5830.
www.printpack.com.

(www.gefanuc.com). Superior Controls project manager Sean Hoffman led the systems integrator's efforts for the project, which took the off-the-shelf MES product and optimized it for the Craisins® 100-calorie pack line.

The customized software monitors and reports overall equipment effectiveness (OEE). As a key performance indicator in lean-manufacturing efforts, OEE offers a quantifiable way to report overall utilization of facilities, time and material. Critical information collected by the MES includes reporting downtime and runtime as well as the reasons for downtime.

Designed to digitize and collect information generated throughout a production facility, Proficy Plant Applications creates what GE Fanuc describes as a "virtual plant." A packaging-line manager or operator can access the information on-demand, then use the data to measure performance in real time.

"The software will help as Ocean Spray ramps the line up, and they can see exactly where the problems occur," Superior Controls president Rick Pierro explains.

The information collected by Ocean Spray can be used to continually improve the Craisins® 100-calorie pack line, and,

potentially, enable Ocean Spray to create better SDC packaging lines in the future.

Coast-to-coast growth

SDCs are poised to continue to be a large part of the Ocean Spray offering. The company plans to add 15,000 lb of SDC processing capacity this year.

As of presstime, Ocean Spray

completed production for another SDC operation at a facility in Wisconsin Rapids, WI; operates an SDC packaging facility in Tomah, WI; and has commissioned a plant in Markham, WA.

The case packer, right, boasts a top-load design that enables Ocean Spray to pack the flexible, standup pouches without the floorspace demands of a large machine.



Ball Packaging Innovation

Plastic Wine Bottles



Eyeris® Enhanced Can Graphics



Gamma-Clear® Plastic Jars



Alumi-Tek® Aluminum Bottle



EZPeel™ Ends



Pergo® Shaped Aerosol Can



Packaging the Experience™

More information is available:

Pearson Packaging Systems,
800/732-7766.

www.pearsonpkg.com.

Markem-Imaje, 866/263-4644.

www.markem-imaje.com.

GE Fanuc Automation, Inc.,
800-433-2682.

www.gefanuc.com.

Heat and Control, Inc.,
510/259-0500.

www.heatandcontrol.com.

Key Technology, Inc.,
509/529-2161. www.key.net.

PPI Technologies Global,
941/359-6678.

www.ppitechnologies.com.

Mettler-Toledo Safeline,
800/836-0836.

www.us.mt.com/safelineus.

Superior Controls, Inc.,
800/639-1736.

www.superiorcontrols.com.

tna, 972/462 6500.

www.tnasolutions.com.

Videojet Technologies, Inc.,
800/843-3610.

www.videojet.com.

Yamato Corp.,
262/236-0000.

www.yamatocorp.com.

Ball Corporation • www.ball.com • Eat. Drink. Imagine.



IPM FOODS, LLC is the first contract-manufacturing facility in the U.S. to install a packaging line to run retortable cartons designed for low-acid, shelf-stable food products with particles of almost any size.



IPM introduces retortable cartons

Jack Mans, Plant Operations Editor

IPM Foods LLC, Beloit, WI., was founded in 2006 by president Pawel Marciniak as a contract packager utilizing the Tetra Recart carton, which was developed by **Tetra Pak, Inc.** (www.tetrapakusa.com). Joe Pirc joined the company in 2008 as vp of sales and marketing. In addition to installing a complete processing and packaging operation rated at 400 cartons/min, IPM also provides product development and testing services and short-run manufacturing of products for test marketing and product testing.

Tetra Recart is the world's first retortable carton packaging system designed for low-acid, shelf-stable food products with particles of almost any size. Tetra Pak supplies both the form/fill machine and the cartons. Food products, such as beans, vegetables, tomatoes, soups and sauces are

cooked and sterilized inside the Tetra Recart carton with a resulting shelf life of up to 24 months.

Marciniak had been involved with the Tetra Recart technology at Tetra Pak, both in Europe and the U.S., for many years, while Pirc was in Tetra Pak's marketing department and had developed a strong background in private-label marketing. "It's a great opportunity for me to work with something I love," says Marciniak. "The technology is just getting started here in the U.S., and it has a tremendous upside. The retort cartons can replace cans and jars and have many advantages over those containers." One benefit is shelf appeal. The flat carton face provides a great billboard for products on the store shelf, and the rectangular shape lets three cartons fit in the same shelf space as two metal cans. There are also major shipping benefits. A pallet will hold

Continued on page 28

"We spec Eriez' vibratory feeders on all our systems"



"At Frazier & Son, we rely on Eriez' wide variety of drive units, custom trays, screens and feeder configurations to help us handle difficult applications and, ultimately, sell more of our systems."

Mark Frazier – Frazier & Son

Better Vibratory Solutions for Dry Material Handling

- Precision feeding across the full range of control adjustment
- High speed, high deflection and traditional drives handle everything from fine powders to gummy candy
- Custom trays to multi-deck screeners meet unique system requirements
- 31 different feeders in stock for immediate needs

When you need help with a challenging application...just "Ask Orange"

Download Now

"How to Choose & Use Vibratory Feeders & Conveyors" booklet and the Vibratory Products Selection Guide"



Call 1-888-300-ERIEZ or visit www.eriez.com



AGGLOMERATION & BLENDING

- Dry ingredient blending with air, plough and ribbon blenders to ensure consistent, homogeneous products.
- Largest agglomeration capacity in North America, continuous flow system, designed for flexibility in handling dairy and other food products.



TURNKEY SOLUTIONS

- As a full service, turnkey manufacturer, Century Foods can handle every aspect of getting products to retail. From R&D to filling and packaging, we do it all.
- We work confidentially with customers to produce quality, custom products under their label.
- Century Foods has the capacity and flexibility to handle any size filling and packaging requirements.

"NOTED IN THE INDUSTRY FOR CONTRACT MANUFACTURING"

At Century Foods, we're focused entirely on meeting the needs of our customers. Every need. We can take your idea from concept through research and development to manufacturing and, finally, into a retail-ready container.

When you're ready to get your product off the ground, we're here to make it happen.

Our expertise, your success.

**CENTURY
FOODS
INTERNATIONAL**

A Division of Hormel Foods Corporation.

VISIT US AT WWW.CF-PD.COM
OR CALL US AT 800-269-1901



FILLING & PACKAGING

- Bulk packaging in totes and bags.
- Consumer packaging: plastic jars with induction seals and full sleeve or pressure sensitive labels.
- Bulk packaging in totes and bags.
- Re-sealable gusseted bags and variety of pouches.
- Stick packaging and tablet pressing.



R&D QUALITY ASSURANCE

- R&D team with backgrounds in chemistry, microbiology, nutrition, food science and chemical engineering.
- Ready to drink and nutrition formulators.
- Rigorous HACCP program, NSF GMP 9000 Certified and AIB inspected.



READY TO DRINK

- High acid, hot fill ready to drink line with homogenizer, deaerator and pasturizer with tubular heat exchangers.
- 8-46 oz. PET, or Polypropylene. Shrink sleeve and wrap around labeling.
- RTD products can be multi packed with registered or non-registered film, trayed and overwrapped or RSC cartoned.
- Pilot line available.



35,000 Tetra Recart carton blanks. Thus, one truckload of Tetra Recart cartons corresponds to approximately 15 trucks delivering empty cans or glass jars. Comparing finished product, a pallet will hold up to 50 percent more cartons than cans. From a consumer standpoint, the carton's laser-perforated, easy-open feature allows consumers to open the package with no can opener and presents no sharp edges.

IPM Foods' first commercial product is Dal Raccolto-brand Tuscan vegetable soup, which is distributed by Colavita USA. "Colavita was familiar with Tetra Pak, and when they heard about our Tetra Recart operation, they contacted us about producing the soup, which is being marketed at selected Sam's Club stores" says Pirc. "This was initially a one-shot deal, but the product has done so well, that they have extended their order." IPM



The intermittent-motion form/fill machine handles two cartons simultaneously. Dry components discharge through funnels into the cartons, top photo. Carton blanks are pushed up onto mandrels for forming.



also is currently running products for a national natural-food retailer, who is launching several items in Tetra Recart cartons in mid-January, and it is in discussions with several big natural-food retailers about new products for this fall. "This is an upper-scale, high-end product, so it's well suited for premium private label and natural and organic products," says Pirc.

Carton composition critical

Although the Tetra Recart package resembles other Tetra Pak cartons, it employs a construction incorporating a proprietary six-layer paperboard, foil and polymer laminate structure that allows it to be retorted at conventional retort temperatures (up to 262 deg F for up to two hr). From inside to outside, the structure consists of PP (contacting the product), aluminum foil, PP, paperboard, PP and lacquer-protected flexo-printed graphics. The structure contains 65 percent paperboard.

The highly moisture-resistant paperboard material and the proprietary polymers support the structure during retorting, while the foil and polymers provide barrier properties. The lacquer-coated and printed paperboard on foil creates a glossy, smooth surface and an eye-catching package, while the print surface resists scratching. Graphics are printed on the fiberboard using a four-color, process-printing method, described as an advanced flexo process, using proprietary, heat-resistant inks. The packaging is produced and printed by Tetra Pak at one of its production plants.



Efficiency and accessibility

A new highly efficient tube filling and cartoning line with exceptional accessibility for the operator. The filler operates in a clockwise direction and is equipped with a new pick & place unit for "straight line" layouts.

Sirius Machinery Inc 230 Industrial Parkway Branchburg, NJ 08876
Phone: 908 707 8008 Fax: 908 707 0073 info.us@siriusmachinery.com
www.siriusmachinery.com/USA





Liquid component is filled from a holding tank on top of the form/fill machine into the cartons by piston fillers.

Three filling stations

The 90,000-sq-ft Beloit plant contains two floors with processing taking place on the second floor and packaging on the first floor. IPM has installed a Model TPR2 intermittent-motion form/fill machine that runs 12.1-, 13.9- and 17.8-oz cartons at 100 cartons/min. The machine runs the cartons in-line, but handles two cartons simultaneously throughout the operation. To start the packaging operation, a worker loads the flat, premade, preprinted cartons in the infeed magazine. Suction cups remove the carton blanks, open them and push them up onto mandrels that are on a rotating turret. This carries them past induction-sealing stations, where the bottoms of the cartons are sealed shut, followed by stations where the end flaps are folded inward and then sealed in-place to form a flat bottom. The machine has eight mandrels to handle the cartons during the sealing step. Suction cups remove the cartons from the mandrels and drop them into cavities on a conveyor that transports them through the remaining operations.

The machine at IPM has three individual filling stations in succession to deposit dry, particulate and liquid components in succession. Dry components are delivered to a hopper on the top of the machine and drop through a funnel into a rotating volumetric filler with six telescoping cups that discharge through two funnels that feed two cartons at a time on the conveyor below. The quantity of product dispensed is changed by adjusting the volume of the cups. Particulate product drops from a hopper through hoses into two piston fillers that discharge into the cartons through rotary valves. Liquids are dispensed from an overhead holding tank by two piston volumetric fillers. The discharge volumes of both the particulate and liquid fillers are regulated by adjusting the length of the piston stroke. The entire filling station was supplied by **Zanichelli Meccanica S.p.A.** (www.zacmi.it) and was installed by Tetra Pak when it assembled the machine.

Next, the tops of the cartons are sealed in a two-step sequence. First, the tops of the cartons are induction-sealed shut. Then the sealed tops are folded down onto the tops of the cartons, after which the end flaps are folded over and induction-sealed to the sides. The amount of material extending above the top of the carton after sealing is greater



A major advantage of the retort carton is its ease of opening. The opening procedure is shown from top to bottom in the photos above. First, loosen the top flaps from the carton. Next, squeeze the carton to push up the top. Next, Pull off the the tear strip. Finally, pour out the product.

Matthews Marking and Coding Solutions

With over 150 years of experience in the product identification industry, Matthews Marking Products is a leading provider of marking and coding equipment for the industrial marketplace.



Continuous ink-jet printer for high quality small character coding

- Print expiration dates, batch codes, logos & barcodes on porous or non-porous materials
- Print up to 4 lines of text
- Large, easy-to-use touchscreen



High resolution printer for optimum print resolution

- Eliminates need for labels on corrugated box packaging
- Print up to 32 lines of text
- Print logos, scannable barcodes and graphics



Fiber laser marking system for permanent marking

- On-the-fly or stationary - permanent, high quality small character marking of metalized materials
- No consumables, low maintenance
- Minimal operation costs and compact design

www.matthewsmarking.com
412-665-2500

Matthews Marking Products

Matthews
INTERNATIONAL
BRAND SOLUTIONS

See us at WestPack Booth #5511

than the amount extending below the carton during bottom sealing because the top contains a tear-strip for the end user to use to open the carton.

An operator panel with a touch screen shows the status of the machine, and allows the operator to

use-by date and a unique serial number so that every package can be traced from production to end user. The ink, which is also supplied by Domino Amjet, is heat-sensitive and permanently changes color at retorting time and temperature, so IPM can be

certain that the cartons were sterilized. IPM has two identical printers in tandem for redundancy. If the primary printer malfunctions for any reason, the secondary unit

the tray that is sitting on a cart. After six cartons accumulate on the tray, a lever momentarily holds back the entering cartons, while that row of cartons on the tray is pushed forward. The lever then raises, and the operation is repeated until the tray is filled with 14 rows of cartons. The lever again holds back the cartons, while the tray is raised one level and another tray is pushed into place. This process is repeated until nine trays have been filled, and the rack is holding 756 cartons. At this point, the operator pushes the rack onto a cart, another rack is placed into the loader and the operation is repeated.



The plant has four retorts that hold two racks of cartons. Each rack holds 756 cartons.

change the operating parameters for different carton sizes by touching the icon on the screen.

As the sealed cartons leave the TPR2, they pass beneath the printhead of a Model A300 ink-jet printer from **Domino Amjet, Inc.** (www.dominoamjet.com) that serializes every package. The unit prints the product batch number, the

conveyed to the retorting operation in an adjacent room. This operation starts with an automatic retort-tray loading system from Danish company **Jorgensen Eng. A/S** (www.jorgensen.dk). The cartons, which are standing up on the conveyor, are tipped on their sides before they enter the tray-loading system. In this operation, cartons enter

The technology is just getting started in the U.S., and it has a tremendous upside.

will immediately take over the printing operation.

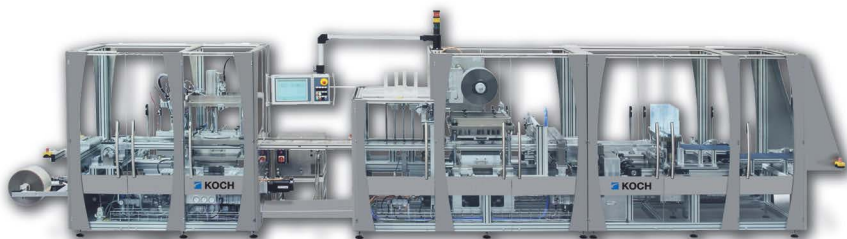
Four retorts

From the form/fill machine, the cartons are

The cart is wheeled to a Steam Water Spray™ batch retort from **FMC Technologies** (www.fmctechnologies.com), where the cartons are sterilized. IPM has four retorts, each of which holds two racks of cartons. Once the retort is closed and sealed, hot water is circulated through the unit and sprayed onto the cartons. A combination of air and steam is also injected into the unit. The steam provides additional heating, while the air provides over pressure to prevent the cartons from expanding as the contents are heated. The sterilization temperature is about 250 deg F, and the entire heating, sterilization and cooling cycle takes

Blister packaging machinery

■ that brings innovation to market



- Brand Promotion
- Product Protection
- In-Store Display
- Quick Changeover
- Fast ROI

Meet your production and marketing initiatives, global realities, and retail challenges for frequently changing package requirements.

Call today and challenge KOCH Packaging Systems to create flexible, cost-efficient retail-ready blister packaging solutions.



KOCH Packaging Systems LP
Tel: 973-541-7312
info@KOCHPackaging.com
www.KOCHPackaging.com



See us at WestPack Booth #5439

OAKLEE



PVC Tubing
Cut Bands
Die Cuts
Flat Film
Labels
PETG Film
Preforms
Rigid Film
Roll Stock
Tri Bags

The Choice For Flexible Packaging Materials

For over 20 years, Oaklee International, Inc., a division of Oaklee Industries, has remained a worldwide supplier of flexible packaging materials, including PVC.

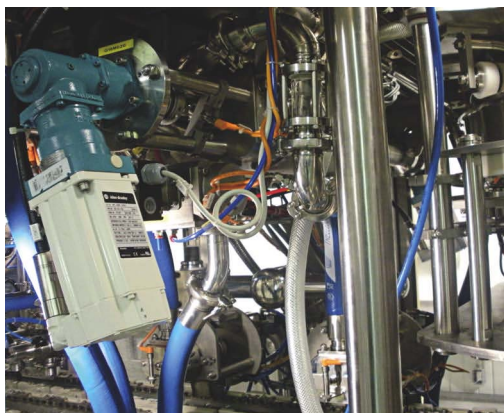
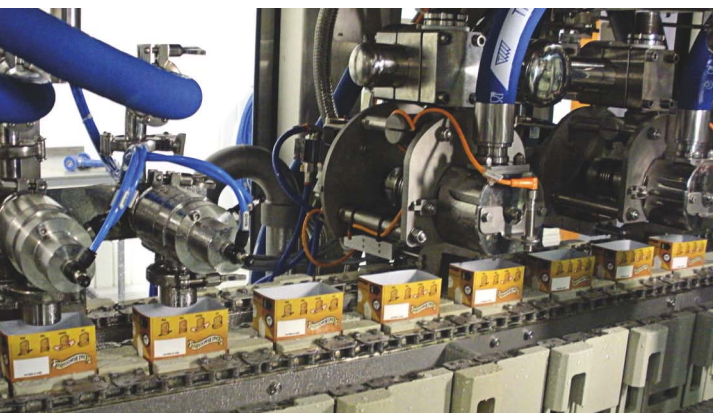
Whether it is for an automatic application or a manual application, Oaklee is here to handle your requirements.

With over 50 years of expertise, our customer service team will give you a quality product, superior service and dependability.

Put the Oaklee team to work for you.

Oaklee International, Inc.

www.oaklee.com | service@oaklee.com | 800-333-7250



Particulate product drops from a hopper through hoses into two piston fillers that discharge into the cartons through rotary valves. Liquids are dispensed from an overhead holding tank by two piston volumetric fillers, left photo. Particulate and liquid fillers are servo driven.

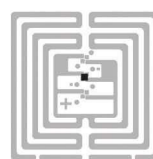
about two hours. IPM places a retort check tag from **Steritec Products Mfg., Inc.** (www.steritecproducts.com) on each rack of cartons before it enters the retort. The tag changes color from purple to green after a set time and temperature, and it provides a visual validation that the rack has, in fact, gone through the sterilization process. "This is not to check that the product is sterile," says Marciniak. "We have very rigorous quality assurances to ensure that. These tags make sure that a rack has gone through the retort and eliminates the possibility, however slight, that it might be delivered in error to the tray unloader."

After the racks are removed from the retort, the operator loads them onto a cart and takes them to a detraying operation that is the reverse of the loading operation. From there, the cartons are delivered to a Tetra Pak Model 70 wraparound tray packer. The packages are grouped into either a 2x6 or a 2x8 pattern, after which they are moved onto a tray blank of corrugated board. The blank is shaped around the packages and glued with hot-melt adhesive on a unit from **Nordson Corp.** (www.nordson.com). The trays then are conveyed to a Tetra Pak Model 51 shrink wrapper.

The Tetra Recart package has found wide acceptance in Europe, but has had little exposure in the U.S. With its many sustainability attributes, it seems to be the ideal package at the opportune time. However, its uniqueness and the technical complexity of the technology present an educational challenge to companies that might be interested in adopting it. Now, with IPM Foods available to provide consulting services and short-run production as well as extended product runs, more products in Recart cartons should be appearing in the U.S. very soon.

More information is available:

Tetra Pak, Inc. 847/955-6000. www.tetrapakusa.com.
Domino Amjet, Inc., 847/244-2501. www.dominoamjet.com.
FMC Technologies, 281/591-4000. www.fmctechnologies.com.
Jorgensen Eng. A/S, 45 63 13 22 11. www.jorgensen.dk.
Nordson Corp., 770/497-3700. www.nordson.com.
Steritec Products Mfg., Inc., 303/660-4201.
www.steritecproducts.com.
Zanichelli Meccanica S.p.A., 39 0521 490211. www.zacmi.it.



RFID

DESIGN, PRINT and APPLY Bar Code Labels the **EASYLABEL®** way!

EASYLABEL® 5

EASYLABEL 5 Platinum product identification and bar code labeling software is now available with an **RFID Wizard** that takes the worry out of creating and printing smart labels with its extensive support for EPC, Department of Defense (DoD) RFID, and other RFID specifications.

Additional features include:

- Direct support for Oracle WMS/MSCA and SAP R/3
- Easy integration with any XML enabled application
- Microsoft OLE DB and ActiveX® Data Objects (ADO)
- Compliance tools for the FDA 21 CFR Part 11 regulation

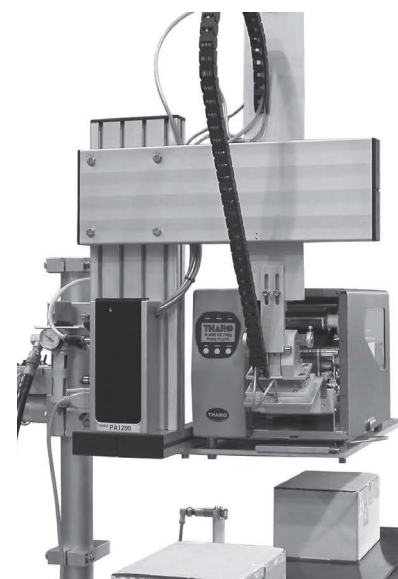
Read more about these new EASYLABEL® 5 features at: www.tharo.com/software.php.

Download a FREE Demo copy today at www.tharo.com.



Tharo H-Series Printers

Thermal transfer product identification and bar code label printers for large volume printing. These all metal printers are available in 203 or 300 dpi and 4" or 6" print widths. The printers feature a backlit LCD, Real-Time Clock, Optional Ethernet Card and much more. The H-Series contain internal memory for storing downloaded label formats, graphics and fonts. Using this memory, the printers can be operated **without** being connected to a computer.



PA1200t Tamp and PA1200t/b Tamp-Blow Printer/Applicator

Easy to use, the PA1200t requires minimal adjustment to changeover from applying product identification and bar code labels to the top or side of a product. The PA1200t/b was designed to apply labels to delicate products or products with curved or uneven surfaces. The Tamp Pad delivers the label right above the product and the label is blown the rest of the way on. The PA1200t and PA1200t/b can use a Zebra ZM400, Datamax I-Class or Tharo H-Series printer.

EASYLABEL®
BY THARO SYSTEMS



*Call us for pricing on
 Printers, Printer/Applicators and Ribbons.
 Reseller Inquiries Also Welcome!*

West Pack 2009, February 10-12, 2009, Anaheim Convention Center, Anaheim, CA, Booth # 5063
 South Pack 2009, March 11-12, 2009, Charlotte Convention Center, Charlotte, NC, Booth # 2709

Box 798 • Brunswick, OH 44212-0798 USA • 800-878-6833 • 330-273-4408 • FAX 330-225-0099 • tharo@tharo.com • www.tharo.com

Sustainability in Packaging 2009

"Best conference that I've been to in a long time. Educational, timely, and great networking."
Sara Porter, ECLIPSE FILM TECHNOLOGIES

"This was an excellent program. I made many contacts that will be resources for our company."
Tanya Pyu, AICC

"The conference overall was inspiring."
Susan Tremblay, KOHLER COMPANY

Plus! Don't miss the pre-conference seminars on Monday, March 2, 2008:
Avoid Greenwashing by Choosing the Right Message for Marketing Sustainability:
Communicating sustainability goals to suppliers, customers and consumers and
Sustainable Packaging Metrics

More than 350 industry leaders and innovators attended in 2008!
Forty expert presentations and two intensive pre-conference seminars

reasons to attend

- Hear directly from the **Sustainable Packaging Coalition (SPC)** on their new COMPASS tool
- Receive the latest on innovative packaging developments by **Brown-Forman, Sara Lee, Mars Inc,** and **The Dial Corporation**
- Get up to date with the latest green guidelines from the **US Federal Trade Commission** and talk about B2B green packaging
- Learn about the challenges of sustainable development and life cycle approaches to packaging from **Unilever** and **Alcan Packaging**
- Find out more about the first ever caps recycling program in the U.S. from **Aveda**
- Discuss with **Dow Chemical, Plantic Technologies,** and **PSM North America** characteristics, standards and applications potential for bio-based plastics
- Identify the strategies for supply chain optimization as **Georgia-Pacific, Adalis Corporation SC Johnson, Havi Global Solutions** and **CROWN Holdings** review steps for achieving greater profitability and sustainability with supply partners and customers
- Get a strategic view on the state of green packaging by examining the results of the latest survey conducted by **Packaging Digest** and **SPC**

Enabling sustainability through packaging

According to a study from IRI* approximately 50% of U.S. consumers consider at least one sustainability factor in selecting consumer package goods items and choosing where to shop for those products. In this year's survey conducted by Packaging Digest and SPC, nearly 90% of all respondents said that sustainable design has had a greater impact on their packaging decisions in 2008. The sustainability movement is growing strong and it seems that the uncertainty of today's global economy is helping rather than hurting it.

However, packaging is still often considered waste instead of an integral part of the product. Media headlines are screaming that "greenwashing" is widespread and there are debates in the industry as to whether consumers actually understand and are actively demanding sustainability or just passively accepting it.

IntertechPira's 3rd annual **Sustainability in Packaging** conference offers a perfect stage for discussion of these issues and many more. The event has been recognized for providing access to educational, solid data-based presentations from a broad spectrum of speakers and viewpoints. The comprehensive program with plenary sessions and dedicated streams will allow you to tailor your conference experience. Participants from companies representing the entire packaging supply chain will examine market data and case studies for choosing the right materials, designing cost-effective and efficient packaging with sustainability in mind, setting up sustainable systems internally and within the supply chain, communicating sustainability goals and results to consumers, customers and partners.

The sustainability landscape is changing rapidly. **Sustainability in Packaging 2009** will provide the answers to what has changed, why and what is next.

*<http://us.infores.com> www.packagingdigest.com

IntertechPira will be making every effort to minimize the negative environmental impact of the **Sustainability in Packaging 2009** conference. Be on the lookout for electronic updates detailing these efforts as well as the latest conference and industry updates!

Book through January 30, 2009
and save 10% on your registration

Online: www.sustainability-in-packaging.com

Tel: +1 207 781 9631

Email: michael.robert@pira-international.com

In association with:

CONVERTING. PACKAGING. DIGEST.

Sponsored by:



SUSTAINABLE FORESTRY INITIATIVE
Good for you. Good for our forests.™

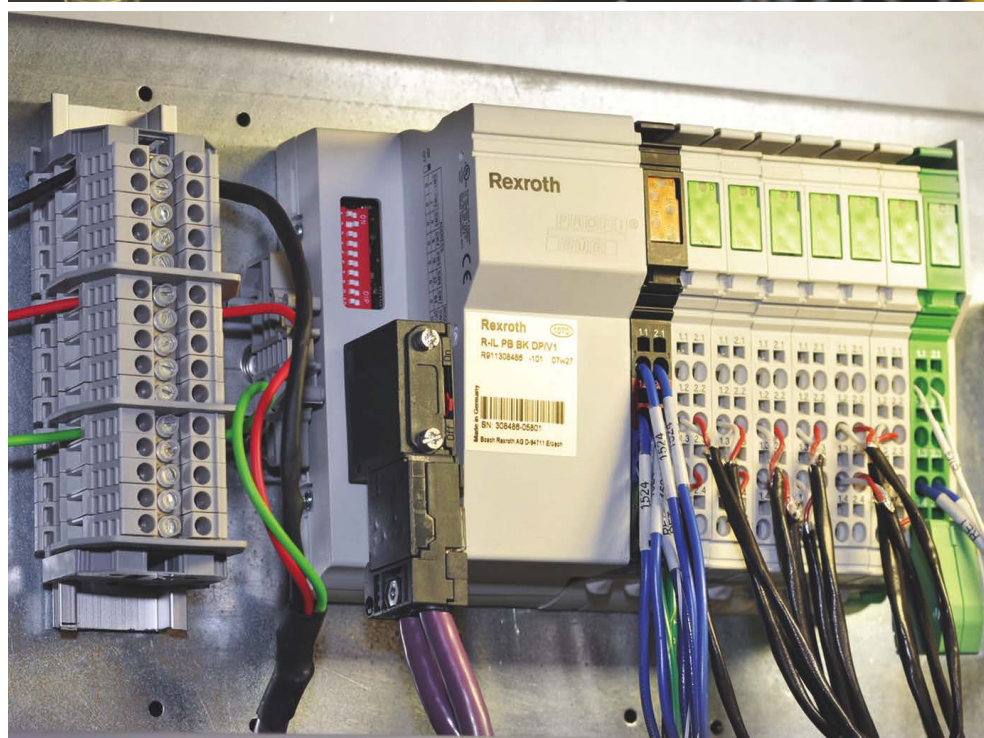
Day one – Tuesday, March 3, 2009

Plenary session	Recycling, Materials, and Design	Sustainability Strategy and Brand Communication	Bioplastics
8:00 – 8:05 Opening remarks Olga Adamovich, Conference Director INTERTECHPIRA	1:30 – 1:40 Opening remarks from the chair Dr. Susan Selke, Acting Director School of Packaging MICHIGAN STATE UNIVERSITY	Opening remarks from the chair Michael Rubinstein, Chief Growth and Innovation Officer ALCAN PACKAGING	Opening remarks from the chair John Kalkowski, Editorial Director PACKAGING DIGEST and CONVERTING MAGAZINE
8:05 – 8:30 The State of Green Packaging John Kalkowski, Editorial Director PACKAGING DIGEST and CONVERTING MAGAZINE	1:40 – 2:10 Product Stewardship the Aveda Way John Delfausse, Vice President, Global Package Development and Chief Environmental Officer ESTEE LAUDER CORPORATE PACKAGING	What We Talk About When We Talk About Green Packaging John Davies, Vice President, GreenBiz Intelligence GREENER WORLD MEDIA	A Study of Biodegradable Plastics in Today's Market Leslie Harty, President MAVERICK ENTERPRISES
8:30 – 9:00 The Triple Bottom Line Salvatore Anello, Global Director, Packaging JOHNSON AND JOHNSON	2:10 – 2:40 Upcycling: A new life for packaging Tom Szaky, CEO and Founder TERRACYCLE INC	Green Guides James Kohm, Associate Director FEDERAL TRADE COMMISSION	Responsible Innovation: Reducing the environmental footprint with IngeoTM plastics and fibers Erwin Vink, Environmental Affairs Manager, NATUREWORKS LLC
9:00 – 9:30 Eco-Efforts of Environmental Programs Paul Comey, VP Environmental Affairs GREEN MOUNTAIN COFFEE ROASTERS	2:40 – 3:10 Rewards for Recycling Ron Gonen, CEO RECYCLEBANK	Case Study: Lightweighting Fetzer wine and green marketing Rob Kaplan, Manager of Corporate Responsibility BROWN-FORMAN CORPORATION	Sustainable Packaging Solutions with Bioplastic TPS Thomas Black, Vice President, the America's PLANTIC TECHNOLOGIES
9:30 – 10:00 Networking break			
10:00 – 10:30 It's Not Easy Being (Truly) Green Michael Rubenstein, Chief Growth and Innovation Officer ALCAN PACKAGING	3:10 – 3:40 Networking break	Networking break	Networking break
10:30 – 11:00 How Plastic Packaging is Meeting the Sustainability Challenge in Europe Edward Kosior, Managing Director NEXTEK LIMITED	3:40 – 4:10 Many Choices to Make in Sustainable Packaging Dr. Carol Casarino, Technology Manager, Packaging & Consumer DUPONT PACKAGING AND INDUSTRIAL POLYMERS	Packaging: A sustainability strategy Christopher Wolpert, Principal Engineer – Innovations/Sustainability DIAL CORPORATION, A HENKEL COMPANY	PSM Bioplastic – Intro, applications, and processing of the HEAT stable material for packaging Daniel Tein, VP Sales & Marketing PSM NORTH AMERICA
11:00 – 11:30 Moving Toward a Sustainable Florida – Policies, Practices and Progress Tim Center, Vice President of Sustainability COLLINS CENTER FOR PUBLIC POLICY	4:10 – 4:40 Designing Through the Lens of Sustainability Gina Romero, Product Realization IDEO	The Sustainability Lens – A different way to view your business Kevin Rabinovitch, LEED AP, Global Sustainability Director MARS INC	Utilizing Renewable Feedstocks: Making polyethylene from sugar cane Jeff Wooster, Sr. Value Chain Manager THE DOW CHEMICAL COMPANY
11:30 – 12:15 Strategic Initiatives to Achieve Sustainability in the Supply Chain: The role of packaging Dr Paul Siracusa, Executive VP Global Research and Development CHURCH & DWIGHT CO Johan Bergman, CEO PROCURASELL Jeffrey A. Blum, Manager Packaging Sustainability MC CORMICK & Co Pamela Long, Director, Client Services LITTLE BIG BRANDS	4:40 – 5:10 Refillable Packaging Systems for Body Wash Products, Key Findings & Lessons Learnt Dr. Rhoda Trimmingham, Lecturer, Department of Design and Technology LOUGHBOROUGH UNIVERSITY Co-author Dr. Vicky Lofthouse, Loughborough University	Packaging as Part of the Overall Sustainability Strategy Humberto Garcia, Packaging Manager Environmental Sustainability UNILEVER	Mirel – A new material option in the growing bioplastics market Dan Gilliland, Director, Business Development North America METABOLIX
12:15 – 1:30 Lunch will be served for speakers and delegates	5:10 – 5:30 Panel Discussions Who is Responsible for Waste in the Packaging Supply Chain Dr. Susan Selke, Acting Director School of Packaging MICHIGAN STATE UNIVERSITY Panel participants from this session	Changing Consumer Perceptions About Packaging Michael Rubinstein, Chief Growth and Innovation Officer ALCAN PACKAGING Panel participants from this session	What are the Differences and Benefits of Disparate Bioplastics John Kalkowski, Editorial Director PACKAGING DIGEST and CONVERTING MAGAZINE Panel participants from this session

Day two – Wednesday, March 4, 2009

Materials and Design	Supply Chain	Plenary session
7:50 – 8:00 Opening remarks from the chair Michael Rubinstein, Chief Growth and Innovation Officer ALCAN PACKAGING	Opening remarks from the chair John Delfausse, Vice President, Global Package Development and Chief Environmental Officer ESTEE LAUDER CORPORATE PACKAGING	1:00 – 1:10 Opening remarks from the chair John Kalkowski, Editorial Director PACKAGING DIGEST and CONVERTING MAGAZINE
8:00 – 8:30 Case Study: Nokia Entry Phone Packaging Birgir Magnusson, Senior Design Specialist, Packaging NOKIA	Financial and Sustainability Benefits from Packaging and Supply Chain Optimization Tom Blanck, Manager, Packaging Solutions ADALIS CORPORATION	1:10 – 1:40 COMPASS – Comparative packaging assessment Minal Mistry, Project Manager SUSTAINABLE PACKAGING COALITION/GREENBLUE
8:30 – 9:00 Reduction in Packaging Material and the Impact of the Full Supply Change Without Compromising Convenience or Safety Through Innovative Closure Design Lothar Brauer, Director Technical Marketing & Business Development BERICAP GROUP	Optimizing Your Supply Chain ackaging Sustainability Pat Smorch, Director of Packaging Sustainability GEORGIA-PACIFIC	1:40 – 2:10 Case Study: HP Speaker TBD HEWLETT-PACKARD
9:00 – 9:30 Package, Message and Cost Compression: Delivering only what the consumer needs Jeffrey Gayer, Vice President Sales & Marketing JAWS INTERNATIONAL LTD	Environmental Leadership Through Holistic Supply Chain Innovation M. Scott Carpenter , Sr. Research Engineer SC JOHNSON	2:40 – 3:10 Packaging Sustainability – How it's changed our thinking and development Glenn Ventrell, Director – Packaging Innovation SARA LEE CORPORATION
9:30 – 10:00 Networking break	Networking break	
10:00 – 10:30 From Concept to Customer: Sustainable product life cycles at 3M Rick Andreson, Global Packaging Business Manager 3M INDUSTRIAL ADHESIVES & TAPES	Packaging Strategies to Meet Sustainability Goals Ian Bucklow, Materials Director, CROWN Packaging Technology CROWN HOLDINGS, INC	3:10 – 3:40 The Environmental Impact of Packaging Louis Lemaire, Vice-President of Marketing and Business Dev NORAMPAC – CASCADES
10:30 – 11:00 BASF Eco-Efficiency Analysis: A lifecycle analysis of flexographic printing inks for packaging Christopher Bradlee, Product Steward – Sustainability Specialist BASF CORPORATION	A Case Study for Delivering Sustainable Packaging to McDonald's Shane Bertsch, Director, Product Development and Global Innovation HAVI GLOBAL SOLUTIONS	3:40 – 3:50 Closing remarks from the chair
11:00 – 11:30 Steel for Packaging: Strategies to meet the sustainability challenge Philippe Wolper, Managing Director APEAL	OEM Perspective on Sustainability - Sustainable Machine Design Mike Wagner, Director Packaging Segment, Global OEM Team ROCKWELL AUTOMATION	
11:30 – 12:00 Panel Discussions Is it more important to reduce my packaging and processes or to use environmentally friendly materials? Michael Rubinstein, Chief Growth and Innovation Officer ALCAN PACKAGING	What are the opportunities to work together to certify suppliers and materials across brands John Delfausse, Vice President, Global Package Development and Chief Environmental Officer ESTEE LAUDER CORPORATE PACKAGING	
12:00 – 1:00 Lunch will be served for speakers and delegates		





Modular machine automation

Integrated motor and drive, control and pneumatics platform aids in developing a **MODULAR, FLEXIBLE POUCHING MACHINE.**

Instead of valves mounted all over the pouch machine, one valve bank distributes air throughout, which reduces wiring and is expandable for more functionality, top left, above. A modular air-preparation unit rounds out the pneumatics package, top right. With the integrated motor and drive platform, the daisy-chain approach to wiring helps with the modular aspect KHS wanted, as well as adding to the clean design of the machine, lower left. The in-line distributed I/O system allows the I/O to be placed throughout the machine, over standard fieldbus interfaces, which reduces wiring costs and simplifies integration, lower right.

Jack Mans, Plant Operations Editor

A steady shift from traditional can, bottle and carton packaging to standup pouch containers has been taking place on the shelves of the local grocery store for more than a decade. Drinks, food and nonfood items packaged in attractively printed, standup pouches are becoming commonplace rather than the exception. KHS Flexible Packaging, an international manufacturer of filling and packaging systems for the beverage, food, and nonfood industries, is a leader in the standup pouch trend, with the development of its servo-driven Innopouch K-Series pouching machine with electronically integrated pneumatics.

Filling a demand for versatile and easy-to-configure packaging machinery, KHS developed a modular, flexible pouching machine with fast setup and changeover times and the ability to quickly expand its functionality as needed. The company achieved these goals using a versatile, integrated motor and drive platform, pneumatics

and a control package from drive and control specialist **Bosch Rexroth Corp.** (www.boschrexroth-us.com).

The Innopouch K-Series form/fill/seal machine can process pouches from traditional film roll stock or by using premade pouches. With four different models in the series, each machine is highly flexible due to the use of leading-edge servo and pneumatic control technology.

The benefit to using a servo platform that is modular in itself is that it allows us to put that modularity throughout the machine without sacrificing performance.

The machines can process fin-seal and standup pouches ranging in size from 80 x 80 to 350 x 360-mm wide. Pouches are handled by a linear, double-gripper system, and the machine is configurable with multiple tandem-filling stations. In addition, with its open, hygienic design, each model is simple and easy to clean using a low-pressure washer, KHS says.

Continued on page 36



Impulse

Will She Choose Yours?

Visit us at
West Pack
Booth #5578

She came in to pick up a prescription and remembered she needs lip balm. The impulse purchase. It's all about visibility. She sees it; she buys it. And "it" had better be your product.

We know that packaging has to work where it counts: in a sales pitch, in your boardroom, on your production line, on your balance sheet — and most importantly — in that space between the shelf and the cart. Boosting impulse purchases is just one of the ways our transparent packaging can work for you.

Let us take on your toughest packaging challenge and give your product a competitive edge. That's our undeniable impulse.



A Member of  **SUSTAINABLE PACKAGING COALITION®**

 **Transparent Container**
Visual Packaging Solutions

www.transparentcontainer.com 888.449.8520

Depending on the desired functionality, an Innopouch K-Series may use from eight to 16 axes of motion per machine, for actions such as forming seals, indexing pouch material, cutting and opening the pouches, gripping, pouch puckering, top sealing and pouch pickoff. With the Rexroth servo and pneumatic system, KHS was able to build in better flexibility and the ability to make changes on the fly,

link functions together and provide quicker setup and reduced changeover time. Previously, it might take two to four hours to change from one pouch size to another. With the Rexroth components, the same task now takes only seconds.

Modularity and performance

An early adopter of servo technology, KHS turned to Bosch

Rexroth for the latest in servo technology to fulfill the modularity needed for the new machine; Rexroth's IndraDrive Mi integrated servo motor and drive combination that is controlled by a high-performance Rexroth PPC-R controller with built-in motion, logic and robotic capability.

"The benefit to using a servo platform that is modular in itself



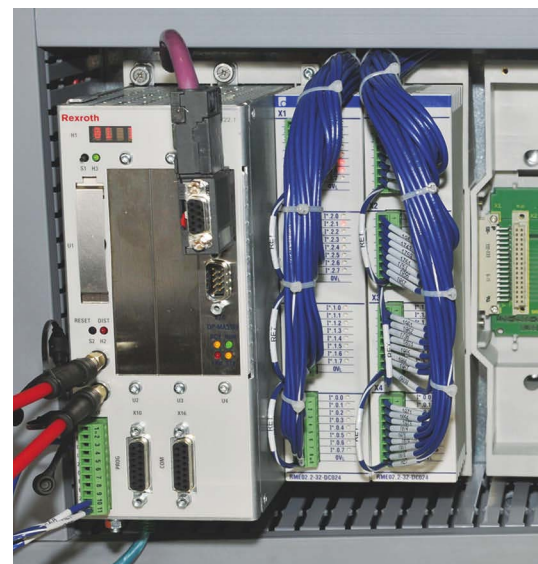
With the servo and pneumatic system, KHS was able to build in better flexibility for timing, the ability to make changes on the fly, link functions together and provide quicker set-up and changeover time.

is that it allows us to put that modularity throughout the machine without sacrificing performance," explains Randy Uebler, general manager of KHS Bartelt. "Rexroth's IndraDrive Mi mimics a lot of the design features we wanted to put in the Innopouch K. The combined motor and drive makes it very easy to configure our pouch machine in different ways."

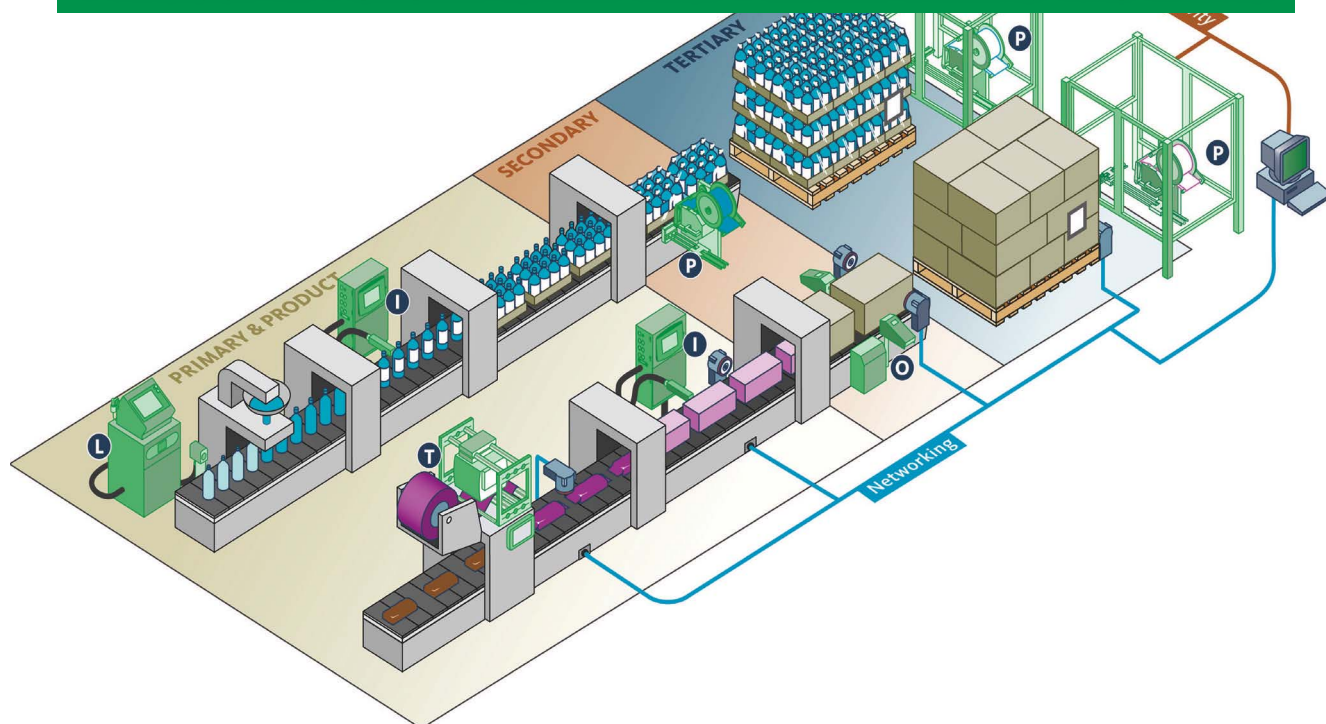
The Rexroth IndraDrive Mi combines a traditional servo motor and drive amplifier into a compact, but highly functional drive unit. This unique design reduces the size by more than 50 percent compared to traditional servo drives consisting of a separate motor and converter. As a result, this drastically cuts down the size of the control cabinet, making it easier to expand functionality.

A notable feature that appealed to KHS is the IndraDrive Mi's innovative cabling design, which significantly reduces the need for

Machine control is provided by a high-performance controller with built-in motion, logic and robotic capability.



Product To Pallet...Across Your Plant...Around The World



Visit Domino at **Booth 5111** at West Pack to see the latest in coding and marking solutions.



DOMINO

Domino Amjet | 1-800-486-7414 | solutions@dominoamjet.com | www.dominoamjet.com



cable connections. Only a single combination cable containing both power and communication is needed, so the drives are easy to connect without a lot of wiring. "This daisy-chain approach to wiring helps with the modular aspect we wanted, as well as adding to the clean design of the machine," says Uebler. "With the IndraDrive Mi, we were able to reduce our wiring needs by about 30 percent. And, we can add features down the road without making drastic changes to the wiring. If a customer wants us to add a new module to the machine, the daisy-chain platform makes it very easy to do. The motors also provide localized I/O, which simplifies the setup."

Pneumatics bridge the gap

Uebler says Rexroth pneumatics play a vital role with the Innopouch K. Air control is critical for accurate positioning of the pouches, so KHS is using a Rexroth modular HF03-LG pneumatic-valve manifold-system that provides high flow in a compact package with low power consumption. "The pneumatics really helped us bridge the gap to modularity," says Uebler. "Instead of valves mounted all over the machine, we have one valve bank that can distribute air throughout, which makes it cleaner, reduces wiring and is expandable, so we can add valves if we want a bigger machine. We chose Rexroth because they offered a more comprehensive line and a different style of valves with better tech support."

An additional benefit for KHS was a reduction in noise. "Worldwide legislation involves varying guidelines regarding the noise decibel level," says Uebler. "We found we could minimize noise using Rexroth pneumatics. And, by working with one supplier for both servos and pneumatics, there is no conflict of competing technologies." The modularity KHS was able to achieve using Rexroth technology reflects a

When we get an idea of what we want to do, having an **expert in the field** is extremely beneficial.

commitment from both companies to developing innovative, cutting-edge processes and systems. As a result, the standup pouch has become a standard packaging option.

As a leading global supplier of filling and packaging equipment for the beverage, food and non-food industries, the KHS Group has tried to remain true to its philosophy of

remaining young, while striving for innovation and high-class workmanship. With more than 1,300 patents, KHS offers packaging systems of the highest quality and maximum efficiency. From its inception in the 1800s, the company has been an industry leader and innovator. In more recent times, Bosch Rexroth, a global machine and factory automation Continued on page 38

Global Programming Standard



Use the fast lane on the Automation Super Highway with

MotionWorks® IEC Software

- IEC61131-3 gets you to your destination faster
- Integration of PLCopen function blocks with the unmatched quality and performance of Yaskawa Servo products
- Open network communication standards including EtherNet/IP, Modbus/TCP, and MECHATROLINK-II

See us at WestPack Booth #4111



1-800-YASKAWA • www.yaskawa.com

SERVOMOTORS • MOTION CONTROLLERS • AC INVERTER DRIVES • ROBOTICS

YASKAWA
The Drive for Quality™

supplier, has become a valued automation partner, teaming up with KHS to develop high-tech, modern machinery. More than 10 years ago, KHS turned to Rexroth to help develop its packaging machinery.

Collaborative mindset

"We have many mutual customers, and the Rexroth name is well known among them, so they know our

machines have the best available technology on the market," explains Uebler. "Rexroth has never let us down in terms of support, training, personnel, etc. Whenever we need something, they're always able to produce it for us in terms of hardware, software and, especially, people. Whether it's on the phone or in person, they are always ready to help," he says.

Uebler adds that Rexroth's advanced technical support and software-programming expertise provides a huge advantage to go with their collaborative mindset. "We can go to them with ideas and collaborate to overcome limits of commercially available technology," he says. "They

seem genuinely interested in things that we want to accomplish."

Read how **MULLINS FOOD PRODUCTS** uses a high-speed case packer driven by **BOSCH REXROTH SERVO DRIVES** to increase production speed, quality, efficiency and overall productivity at www.packagingdigest.com/mullins



KHS and Rexroth also have developed a co-marketing partnership that pays dividends for both companies. In addition to promotional help, Rexroth provides support and resources to help the KHS sales team understand new automation technology, so they are equipped to work with their tech-savvy customers. "A lot of customers want to make sure that what they're buying is the best available equipment on the market," says Uebler. "Our customers are very knowledgeable, so Rexroth helps our sales team become fully versed on the newest technology."

Rexroth provides a clear-cut advantage to KHS on inside knowledge of new developments. KHS has goals and ideas of what they may want to accomplish, but often stretches the limit on existing technology. Rexroth helps KHS take full advantage on what's available. "When we get an idea of what we want to do, having an expert in the field, like Rexroth, is extremely beneficial. Whether its servo, pneumatics or other technology, its experts may recommend something different than what we were thinking, and they can offer alternatives that may work better," explains Uebler.

In return, KHS contributes to product development on the Bosch Rexroth side. When Rexroth is offering something new that KHS could use in an application, the packaging company provides practical, real-life experience and testing to determine if the design is feasible. KHS and Bosch Rexroth have established a partnership that has been successful for more than a decade. Because of the success they've experienced, the companies are certain to continue their collaboration. As each organization continues to be innovative and develop new products and technologies, this mutually beneficial relationship will continue to flourish.

You would be surprised by what you can see with a SMARTEYE® STEALTH-UV™ ANALOG

Digital Verification



- Tamperproof seals
- Missing labels
- Label positions
- Thread lockers
- Lubricants
- Invisible inks
- Leaks
- Splice control
- Inserts
- Missing parts
- Registration marks
- Sorting



New!

STEALTH-UV™ ANALOG Luminescence Sensors Analog and Digital Dual Outputs for Precise Machine and Process Control

FEATURES

- Digital outputs: NPN and PNP
- Analog output: 4-20 mA, 0-5 V, or 0-10 V
- 8 bit analog resolution
- Fast response, 200 µs
- Senses the difference between UV Contrast levels
- One-Touch AUTOSET™ Set-Up
- Four AUTOSET™ Modes:
Light State, Dark State, Mid-Point, Two-Point

Analog Process Control



- Monitoring
- Controlling
- Patterns
- Flow
- Thickness
- Gluing
- Edge Guiding
- Positioning

From challenging applications to basic sensing, **Tri-Tronics patented technologies** provide the performance and reliability you demand.

Call us at 800-237-0946 for knowledgeable application support and design assistance on your next requirement.

Visit us at
WESTPACK
Booth #4378.



TRI-TRONICS®

Smart Photoelectric Solutions Since 1954
800-237-0946 • 813-886-4000

ttco.com

■ More information is available:
Bosch Rexroth Corp., 847/645-3600.
www.boschrexroth-us.com.

sustainability



How does one even begin to summarize the rollercoaster year of 2008? Few could have predicted that we would experience record-setting highs for oil prices, followed by an equally stunning price collapse—all in seven short months.

Since we are experiencing the worst global economic crisis since the Great Depression, it's no stretch to think that 2009 will be defined by rapid changes both in our economic systems and in our policies. We likely will see fundamental changes in

strategy for our personal futures. At many levels, we have failed to heed some of the most basic wisdom of this common-sense advice.

In the past 15 years, there has been an evolution in the focus of sustainability considerations, from corporate social responsibility to environmental issues, and now to a sharp focus on economic sustainability. In the first six months of the year, many "low-hanging fruit" strategies associated with the pursuit of sustainability in packaging—

but military consequences.

It takes leadership to handle change and uncertainty.

Thinking that sustainability engenders can open the doors to new models and solutions. As we apply tourniquets to stop the hemorrhaging, we should recognize that we stand firmly in the midst of vast change, and need to seize the moment to think about how we can create value in the future, identify opportunities to create jobs and new industries and identify the technologies to lead us toward a more sustainable future.

Rather than retreat from the vision of sustainability in difficult economics times, my hope is that we recognize opportunities to create economic value, social benefits and environmental improvement. We could make great strides in packaging sustainability if we decide there's value in creating domestic markets for post-consumer materials and invest in education, infrastructure and technologies needed to make the process efficient.

Sustainability prospects in trying times

energy, climate and environmental policy with the new Obama administration.

This crisis has exposed the incredible vulnerability of many of our systems: our dependence on consumption, dependence on credit to support consumption and the foreign oil needed to drive the engines of commerce. We have also witnessed a collapse in demand for recovered materials. What does sustainability have to do with any of this? On the side of solutions, I would argue a lot.

As individual investors, we are told to diversify our portfolios and reduce our risk by sacrificing high rates of return so we have a nest egg to retire with in the future. This is also an economic sustainability

like source reduction, materials and energy optimization—were effective, cost-saving strategies. Deeper sustainability analysis challenges us to prepare for what appears to be a very uncertain future for energy, climate and material resources, all of which will have profound consequences on global markets and consumption patterns. Many of our business models are based on the abundance of natural resources, ready access to these resources and growth of consumption. These models are proving increasingly vulnerable—with not only economic

Anne Johnson is the director of the Sustainable Packaging Coalition, a project of GreenBlue (www.greenblue.org). For additional information, email info@sustainablepackaging.org.

Two ways to show you care about our forests.



Ever since the recycling symbol appeared, more and more paper products have been recycled. Today, there's another symbol to look for when you shop for wood and paper products: the symbol of the Sustainable Forestry Initiative®. The SFI® symbol on a product means it has wood or paper content from well-managed forests. To find SFI-labeled products, visit www.sfiprogram.org.



SUSTAINABLE FORESTRY INITIATIVE

Good for you. Good for our forests.™



PACK EXPO International 2008 attendees chose the Kids Organic line of **SUSTAINABLE FROZEN FOOD PACKS** as the top winner of the PACK EXPO Selects program.

'Green' meal packs are top pick



Lauren R. Hartman, Senior Editor

The votes are in. Chosen from the largest field of entrants since the contest's inception in 2006, this year's winner of the PACK EXPO Selects packaging competition is the Kids Organic line of tasty childrens' frozen microwavable meal kits.

Designed to keep kids happy and well fed, the nutritional meals are sold by Popkoff's Frozen Foods, San Francisco. Their packaging was cited by PACK EXPO show attendees for the top range of innovations.

Thus, the packaging is anything but kid stuff. It consists of a rigid PP tray made by **Coextruded Plastic Technologies, Inc. [CPT (www.cptplastics.com)]**, as part of its Go-Green™ line. CPT uses a proprietary thermoforming process based on "green" principles to produce the tray. It says that the Go-Green package for Kids Organic is the result of a joint effort between Popkoff's and CPT, from concept through production.

Go-Green packages were created to enhance energy and materials efficiency and allow for steam cooking via a patented technology that helps keep each of the meals fresh and delicious.

Popkoff's, a gourmet food company founded in 1965, takes great pride in preparing high-quality, specialty food products using the finest ingredients in unique, proprietary recipes delivered to consumers in California.

The company noticed that while the organic food business has been booming, the frozen-food and snack aisles in grocery stores and natural food markets have little to offer kids. So Popkoff's decided to bring tasty meals using locally grown organic ingredients from throughout California to children, packed in the unique, eco-friendly, Go Green trays.

"Kids Organic came from my

desire to create healthy, complete, organic meals for children that are easy to prepare for on-the-go parents who care about what their children eat," explains Gary Verkhola, president of Popkoff's Frozen Foods. "Finding an alternative to unhealthy options that are full of fat, sugar and additives became my mission. There are very few complete meals that can guarantee good nutrition, low-fat content and provide tasty menus kids desire. With childhood obesity on the rise, the idea of a complete meal, healthy, nutritious and tasty seemed way overdue."

For the PACK EXPO Selects program, voted on during the PACK EXPO International show in November, a group of the top 13 finalists was narrowed down by the show's organizer the **Packaging Machinery Mfrs. Institute [PMMI (www.pmmi.org)]**, which also orchestrates the PACK EXPO Selects program. With 69 qualified entries, from market segments including food, cosmetics and beverages, there was more competition in the PACK EXPO Selects program than ever before," notes Francesco C. Leboffe, vp of marketing for PMMI.

The paring-down process was even more difficult than in year's past, explains Tom Egan, vp of industry services at PMMI. "The voting to determine the finalists literally went until the eleventh hour, as the judges had a tough time leaving some truly innovative packages out of the final 13. This year's PACK EXPO attendees had quite a challenge selecting just one winner."

The award allows packaging professionals attending the show to acknowledge innovative packaging designs, structures and processes, and PMMI says it's the only program of its kind. All finalists in the program



3005 State Road, Telford, PA 18969

Phone: 215-721-4600

equipmentsales@fresco.com

www.fresco.com

The innovative leader in flexible packaging systems

G14C

Continuous Motion Vertical Form/Fill/Seal machine

with integrated finishing conveyor

Side Gusset and Corner Seal® bags

Some Products: pasta
baking
coffee
candy, snack foods
pet food
building materials
.....plus much more

- Output of up to 80 bpm
- Rapid, flexible changeover
- Corner Seal® technology option

were developed, produced or executed by PACK EXPO exhibitors.

Energy saver

Part of the reason show attendees ranked Kids Organic tops on the winner's list is the care the packager took with respect to the environment. CPT's president Linda Bracha says the proprietary Go-Green tray thermoforming technology reduces impact on the environment by creating 30-percent less scrap and reducing energy usage. The foamed, high-barrier PP tray is lighter in weight than most conventional PP trays and is printed in-register.

"Due to energy savings, this results in reduced carbon emissions of 21 percent, as calculated by the Environmental Protection Agency's WARM model of carbon emissions, compared to conventional thermoforming processes," she says. "Foamed polypropylene has a 15-percent-lower specific gravity than standard polypropylene, resulting in 23-percent less carbon emissions, calculated by the same model."

Secret's in the steam

The foamed tray is said to use less petroleum-based products. It's heat-sealed with Wave Quick Freshwave film, a multilayer combination of polyester and PP, imported from Taiwan through **Global Source Packaging, Inc.** (www.globalsourcepackaging.com). Reverse-flexo-printed in up to 10 colors, the lidding film is made with patented self-venting/steaming technology and regulates the steaming process to promote even cooking and superior flavor, texture and nutritional profiles. The PP/PET laminate film also helps eliminate over-packaging and extraneous cartons or sleeves.

Able to withstand the pressures of microwave heating, the film incorporates what Bracha, describes as

proprietary "micro-pore" technology that allows steam to circulate during the microwave cooking process.

The technology results in more evenly cooked foods without hot or cold spots and in a typically short cooking time that releases pressure during the cooking cycle through tiny

Kids Organic came from my desire to create healthy meals that are easy to prepare for on-the-go parents who care about what their children eat.

pore-sized openings. Bracha says this creates optimal cooking environments with continuous heat and moisture for best texture and taste.

Several factors are key to arriving at the "ideal cooking times" for steam cooking applications, Bracha says. Some of these variables, in no particular order, include food type, net weight of food, state of food (raw versus precooked, fresh versus frozen), recipe components, package headspace, microwave wattage and desired "doneness" of food.

Popkoff's concept of steam pressure cooking technology means that, when the food is still cold, the microwave energy penetrates deeply into the food and is converted to heat instantly. Moisture in the food is transformed into hot steam, which cooks the food from the inside out. Popkoff's says the hot steam stays inside the packaging and cooks the food from the outside as well, heating the food twice as fast as normal microwave cooking.

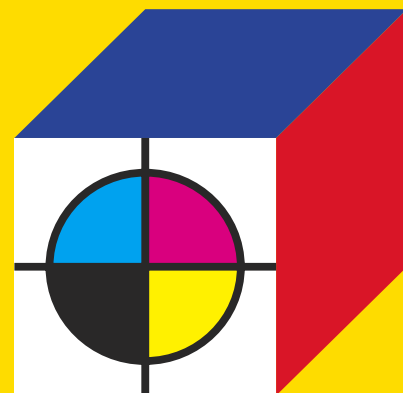
The six 8-oz product varieties in the line are available for \$5.30 to \$5.60 a package, at stores including Target, Whole Foods, Raley's, Rainbow Grocery, Mollie Stone's and through Amazon.com.

More information is available:

Coextruded Plastic Technologies,
608/884-2244.
www.cptplastics.com.
Packaging Machinery Mfrs.' Institute,
703/243-8555. www.pmmi.org.
Global Source Packaging, Inc.,
913/485-0717.
www.globalsourcepackaging.com.



Join Southeast Asia's
largest and most influential
packaging and printing event.



**PACK PRINT
INTERNATIONAL**

International Packaging and
Printing Exhibition for Asia

Sept 23 - 26, 2009

BITEC, Bangkok

www.pack-print.de

Concurrent event :

TIPREX
Thai International Plastics and
Rubber Exhibition for the
Indochina Region

Supported by :

THAILAND
convention & exhibition bureau

Supported by :

Jointly organized by :

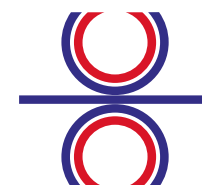
Messe Düsseldorf - Germany
Organizer of:



print media messe
drupa



The Thai Packaging Association

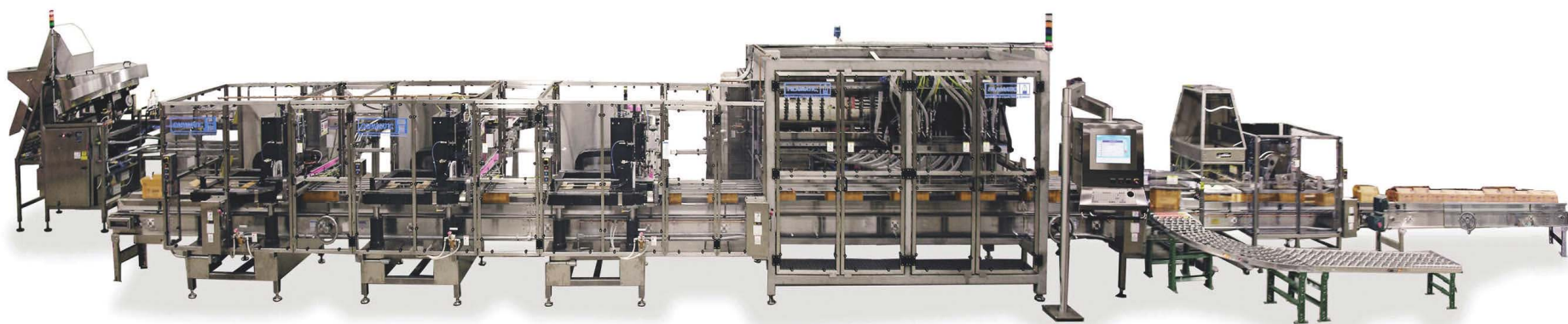


The Thai Printing Association

U.S. Representative:

Messe Düsseldorf
North America
150 North Michigan Avenue
Suite 2920
Chicago, IL 60601
Tel : (312) 781-5180
Fax : (312) 781-5188
E-mail : info@mdna.com
<http://www.mdna.com>

**Messe
Düsseldorf
Asia**



In-case bottle filling keeps Dial's detergents sudsing

Dial Corp. sought greater production capacity for liquid laundry detergent with the addition of **CONTINUOUS-MOTION IN-CASE FILLING/CAPPING LINES**.

Lauren R. Hartman, Senior Editor

The Dial Corp., Scottsdale, AZ, one of the nation's largest laundry soap manufacturers, and part of the Henkel North America, recently had some container-filling decisions to make for its liquid laundry detergents, including those in its Purex® laundry detergent line.

Steady growth and increased market share are good news, but to stay ahead of its competitors, the company had to continue to meet the growing

demands of the market. In the detergent category, that means get more soap into more bottles, faster, without boosting per-case labor costs.

But how? Dial's engineering manager Steve Carter, puts it this way: "Our market grew, and we could see that our existing two rotary [bottling] lines were not ideal. We needed more speed and flexibility." Perhaps Dial could save time by filling the bottles right inside the case, he reasoned.

"Could this reduce changeover time to less than sixty minutes?" Carter questioned. "Could we achieve a zero vertical startup, where we could turn

Understanding key objectives

PD learns that Carter met with the Filamatic team, and early on, discovered that the equipment supplier was willing to work on new concepts. "Most companies have four or five recommendations, and if you want their solution, great. If you want something else, that's OK too, but they may not offer it," he points out. "This company was different. It's focused on understanding our business objectives, what are trying to achieve.

"They also discussed how much electrical versus how much mechanical controls we'd need and how robust they can make the mechanical systems," he adds.

Filamatic also brought up mass-flow metering, an emerging technology fast becoming a popular way to control the fill. Yet Dial's primary requirements were

straightforward—it wanted to fill and pack the Purex bottles at 30 cases/min.

Any new filling equipment it would get had to operate in continuous motion, Carter emphasizes, so Filamatic engineer Tim McGrath, the mechanical engineer on the project, turned over a napkin, made a few drawings and asked, "Is this more of what you're looking for?" he asked. "Yes," came Carter's answer.

What McGrath was sketching was an outline of Filamatic's in-case filling and capping line. Designed to minimize excess inventory, leadtimes and labor costs, the line fills and caps pre-labeled containers already loaded into reshipper cases.

Recalls Filamatic engineer Jack Grosskopf, "When they asked us for a different solution, Tim sketched a thought on a napkin, and Steve Carter liked it and everything went from there," he says.

Our market grew, and we could see that our existing rotary [bottling] lines were not ideal. We needed more speed and flexibility.

on a machine and immediately reach capacity?" As Dial sought greater capacity, it contacted **National Instrument Co.'s Filamatic Div. (www.filamatic.com)**, a liquid filling machine manufacturer working across multiple industries, including pharmaceuticals and cosmetics. Dial evaluated equipment from several companies but Carter says he saw something special in the Filamatic equipment. "What was interesting was their work in the cosmetic and pharmaceutical markets," he says. "Those segments drive a very high degree of manufacturing efficacy. They built very nice systems; very professional."

Carter knew that Filamatic's key advantage is that it offers in-case filling machines, which would save Dial a lot of time removing incoming bottles from their cases, filling them, capping them and then recasing them.



200 oz in four sec

Repeatability and speed were top production objectives for Dial, which also wanted to boost capacity while saving time and money. The ability for the Filamatic line to easily adjust for filling changeovers, or make an adjustment to a digital indicator, would dramatically improve efficiency and reduce changeover time.

To be cost-competitive and meet its 30-case/min goal, Dial had to fill up to 200 oz of foamy, soapy liquid detergent into handled HDPE jugs in less than four sec.

With that goal in mind, Filamatic arranged two of the lines to run at 15 cases/min each, at accuracies of ± 0.5 percent or better. The original order was for two right-hand and two left-hand lanes that mirrored each other, which would enable the same personnel to operate and service both lanes, reducing labor costs. The lines were equipped with eight fill heads each (recently, all of the fillers were updated to include 12 heads).

Positive-displacement filling

Once the particulars were worked out, Dial ordered four single-line systems—two of which were installed at a Dial plant in Hazelton, PA, and the other two at its facility in St. Louis, MO.

All of this led Carter to keep his fingers crossed, he says. “To order four machines at one time when you are moving into a new technology can give you four times the chance for problems.”

But that turned out to be a non-issue. “We used a positive-displacement pump-style filling system, coupled with a servo motor,” Carter recalls. “The filling nozzle tips move down into the bottom of the bottle and start filling.”

Once the nozzles are submerged, the system’s positive-displacement rotary lobe pumps bottom-up-fill and then the nozzles retract, which keeps suds and foam to a minimum. Each filling station now has a 12-head, straightline configuration in a 1x2, 2x2 or 3x2 arrangement, depending on the detergent bottle size, says Grosskopf.

The bottling lines also incorporate case-flap openers with a plow device from **Farason Corp.** (www.farason.com), a case-inspection system from **Omron** (www.omron.com), a reject station with a large pusher arm, a

Filamatic IFC-15 filler, a Farason cap feeder and sorter, and two Filamatic chuck-style cappers with a cap-torque-verification station. Filamatic says torque verification is accomplished via feedback from the servo motors that are performing the torquing function.

Conveyors on the lines are manufactured by **Ambec, a Barry-Wehmiller co.** (www.fgwa.com).

The lines are regulated by an Allen-Bradley chassis-based PLC-5 programmable logic controller with a large touchscreen control panel from **Rockwell Automation** (www.rockwellautomation.com). The PLC stores machine settings for each product configuration in memory.

Filamatic programmed the vision systems in place to ensure that the correct number of bottles are in the shipping container or incorrectly positioned containers and that the each bottleneck is properly oriented.

The vision systems perform a case inspection, confirming that all of the bottles are in place and are correctly oriented before the bottles are filled and capped and the cases are sealed.

The lines also have remote diagnostics that identify potential problems and help to ensure continuous processing. Carter notes that the Filamatic machines had the

large control panels. “You hit ‘go’ and they take off and run,” he says.

Production begins after the Dial plants receive corrugated reshipper cases prefilled with the empty bottles from the bottle molder in two, four or six-count configurations. Reshippers that don’t conform to the requisite parameters or have missing bottles or bottles that are oriented improperly are detected by the vision systems and rejected by a pusher arm that kicks the cases offline before they can reach the straightline filler. Filamatic fabricated the reject mechanism; Ambec produced the reject conveyor and the reject system housing over a lug-chain conveyor.

Positive-displacement filling

Next, the cases are fed onto a conveyor at the head of each line, and reach the system’s flap opener, which plows open the major flaps first, then the minor leading flap is cammed open and the minor trailing flap is pulled open.

Continued on page 44

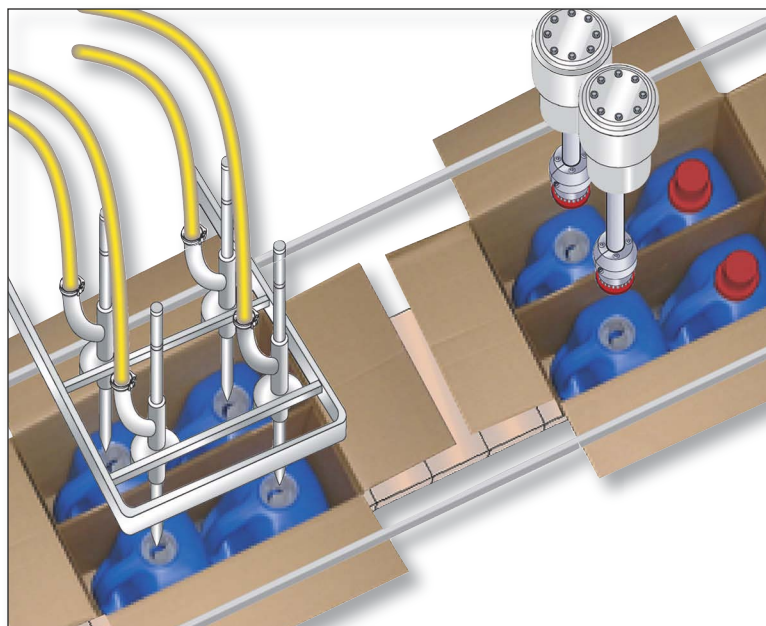


Illustration of the in-case filling process shows the fill nozzles operating with handled detergent bottles. The filler, above left, is followed immediately by the first of two chuck-style cappers, above right.

Quality Seals For All Your Bags and Pouches



OVER 50 YEARS OF SUCCESSFUL PACKAGING EXPERIENCE

ALL PACKAGING MACHINERY, CORP.

90 13th Avenue, Unit 11, Ronkonkoma, NY 11779

Call Toll Free 1-800-637-8808 or visit our Website <http://www.allpackagingmachinery.com>

**Quality Machinery
made in the USA.**

**Full line of bag
loaders, heat
sealers, and band
sealers available.**

**APM is dedicated
to providing the
finest Customer
Service and
Equipment
Engineering to
meet your needs.**



**Validatable
Sealers**
Medical Pouch Sealer
supplied with
verification ports for
FDA validation.
Seals Tyvek pouches
at 40 FPM.



**Horizontal Conveyorized
Sealers**
USDA approved rotary band
sealer supports heavier or
bulky packages.
Bag Top Trim included
Continuously Seals up to 100
FPM.

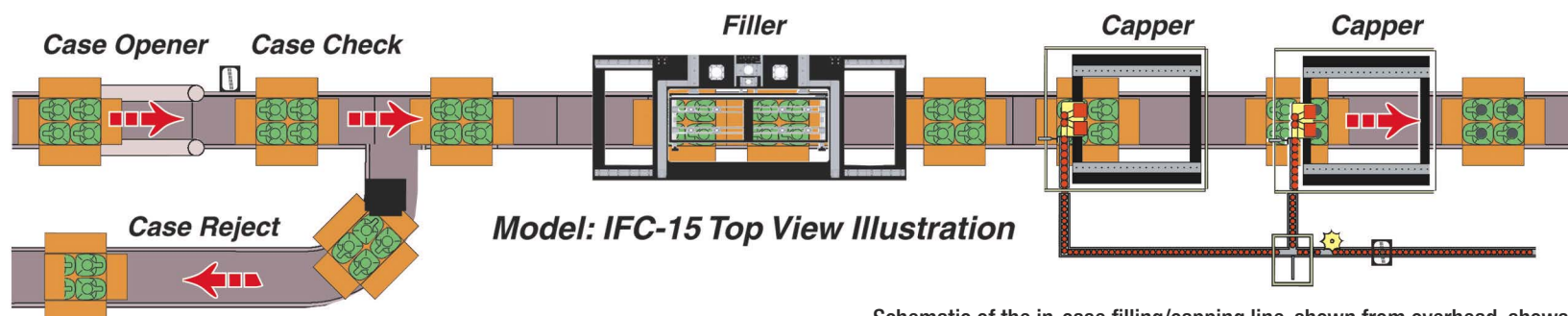


**Vertical Conveyorized
Sealers**
USDA approved rotary band
sealer supports heavier or
bulky packages.
Bag Top Trim included.
Continuously Seals up to 45
FPM.



**Vertical L
Sealers**
Uses center folded
film to form a bag
around your product.
Speeds up to 30
Packages per minute.

**Come visit us at West Pack, February 10-12,
Booth 5526**



Schematic of the in-case filling/capping line, shown from overhead, shows a basic sequence of events and station positioning in the detergent-bottling operations.

The cases are checked for proper bottle orientation and the detergent bottles are filled. The filler accepts containers ranging in size from 90 to 300 oz at speeds of 15 to 20 cases/min, per line. The mirror-image, continuous-motion filling/capping lines have automatic fill-weight verification and correction for each fill nozzle, as well as verification systems for cap application and torque removal.

Equipped with CIP capabilities, the servo controlled, positive-displacement fill heads dispense detergent into two shipping cases at a time, while the cases convey continuously through the line. Changeovers take only 30 min using minimal hand tools, Carter says.

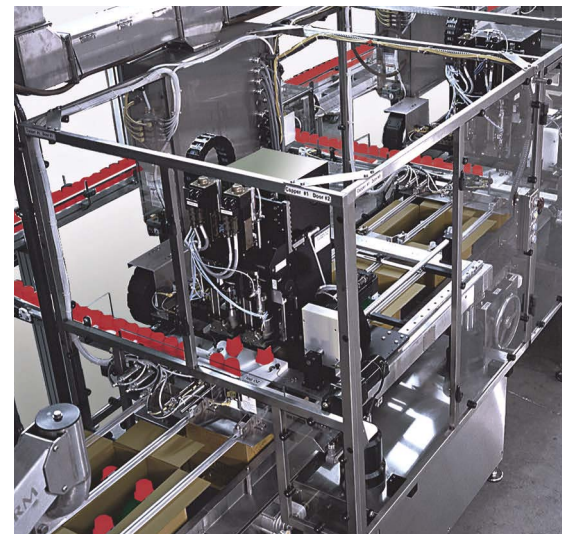
Metering, capping, torquing

After filling, the screw caps are metered and fed

to a platform above the application unit, as the cases of filled bottles approach the capping stations. Each line's two capping stations perform separate functions: The first capper applies caps to bottles in the lead spot inside the cases; while the second capper applies caps on the trailing bottle(s). The caps are fed onto a platform under the capping spindles. As the spindles descend over the cap, the capping chuck closes and the caps are applied. The chucks are designed to move forward on the line with the reshipper case. They descend into the case and torque on the bottle caps.

Originally, two capping heads were equipped on each capping machine, but the machines have since been upgraded to incorporate three capping heads each, Grosskopf tells *PD*.

As the cases of bottles convey downstream, a servo-driven torque-verification unit checks for proper



Built in a straightline configuration, the fillers deposit up to 200 oz of product at 15 to 20 cases/min/line.

MilexCorp.com
866.720.9415
972.252.3500

Visit us at
West Pack
2009!

Loose Fill Checklist:

- ☐ Anti - Static
- ☐ Anti - Migration
- ☐ 100% Biodegradable
- ☐ Low, Stable pricing

Missing any of these?
Then you're missing **Milex**.

KEEP EARTH CLEAN.
PACK IT GREEN.



**FLEXIBILITY
ENGINEERING**

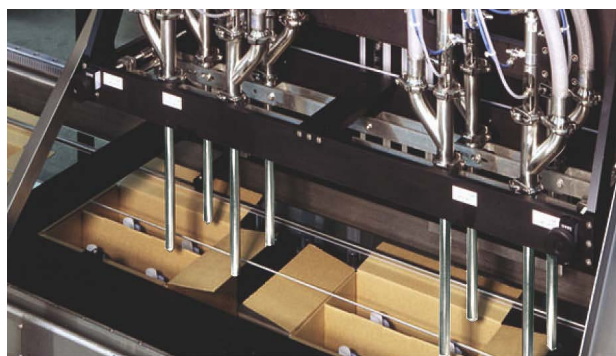
ANYSIZE* SYSTEM

- Automate guide rail size changes for all your package sizes, present and future
- Adjust rails to any position from the touch screen
- Accurate, affordable and reliable
- Simple to install as a retrofit
- Wash down or warehouse options



For a budgetary proposal
on the Anysize* System,
visit our website at
www.FlexibilityEngineering.com
*Patent Pending

3920 Patton Avenue • Loveland, CO 80538
Phone: 970.612.0315 • Fax: 970.612.0320
www.FlexibilityEngineering.com



The long filling nozzles descend into the necks of the bottles inside the cases to prevent sudsing and foaming.

cap-application and torque. "We engineered this system to continuously monitor torque," Grosskopf says. "The reject unit will activate if it does not receive the proper feedback."

In the unlikely event that a bottle should be improperly capped for some reason, the cases are pushed off of the line by another pusher arm. The cases then convey to a **Hartness** (www.hartness.com) flap closer/sealer and then exit the system before they're palletized on equipment from **Columbia Machine** (www.columbiemachine.com).

They were focused on winning. Near the end of the project, they worked seven days a week to get everything running.

[columbiemachine.com](http://www.columbiemachine.com)) and the loads are then placed onto a truck trailer, ready for shipping.

Exceeding its goals

After the first four systems were onstream for some time, Dial decided to order more. Presently *PD* is told, there are two "mirror-image" lines or four packaging "lanes" in the St. Louis facility and one with two lanes in the West Hazelton plant.

Carter relates that the Filamatic equipment has quality, which allowed it to design and engineer four new machines with new technology to help Dial exceed its objectives.

"Filamatic was focused on winning, and was never willing to give up," relates Carter. "Near the end of the project, they worked seven days a week to get everything up and running. They're a really impressive organization." Dial also reaped additional benefits. The detergent-bottling lines perform a number of functions automatically, which

simplifies the entire packaging operation, and has resulted in significant labor savings.

The original four lines were configured to generate 15 cases/lane/min for two- and four-pack cases and they consistently run at 17-18 cases/lane/min.

Today, with the detergent products' popularity in ever-increasing demand, the bottling lines have been converted to run two, four and six-pack cases in varying configurations, Filamatic says.

More information is available:

Filamatic Div., National Instrument Co., Inc., 800/526-1301. www.filamatic.com.

Ambec/Barry-Wehmiller, 630/759-6800. www.fgwa.com.

Columbia Machine, Inc., 360/694-1501. www.columbiemachine.com.

Farason Corp., 610/383-6224. www.farason.com.

Hartness Intl., Inc., 800/845-8791. www.hartness.com.

Omron Electronics, LLC, 800/886-6766. www.omron.com.

Rockwell Automation, 414/382-2555. www.rockwellautomation.com

We Can Handle High-Volume

EASY
1-2-3

In Three Easy Steps

DESIGN
PRODUCE
APPLY

Your Packaging Handle & Application Solution

- Simple, good-looking handles designed for **consumer-friendly** secondary packaging
- Highly-efficient automated application equipment for a **processor-friendly** system
- All 100% readily recyclable #2 HDPE plastic handles marked with "Please Recycle"
- Low-waste, lightweight: designed for maximum performance
- Proven automation custom designed to meet rate and line configuration requirements
- Exceptional customer service and support
- Serving leading processors with winning Turn-Key solutions for 15 years and growing

PakTech®

We are the Handle People

For more information visit our website
www.paktech-opi.com or call **541.461.5000**

system integration

For the technically inept, hooking up the components of a home-entertainment system can be a major undertaking. For automation engineers that specialize in system integration, such chores are all in a day's work. They make their living by making the components of an automated manufacturing system work together.

But even the most accomplished automation system integrators admit that their jobs get harder as the system gets bigger. Large-scale integration

applications, supplying the right combination of engineers at the right times can be difficult.

And as the total number of engineers grows, so too, must the staff of project managers responsible for coordinating their efforts. A larger staff requires additional logistical resources such as back-office support personnel, engineering and project management tools and the financial wherewithal to pay for all of the overhead. The largest integration projects often require the services of the largest

plans are useless unless they are thoroughly understood by both parties. The integrator and the client must be in total agreement on at least the basic project design before the first line of code is written. The larger the project, the greater the risk of failure due to misunderstandings and assumptions. Effective communication is facilitated by a positive working relationship between the integrator and the client, especially for projects that go on for years and involve more than one generation of engineering and management personnel. Integrators experienced with long-term projects tend to prefer the strategic partnership approach. Team spirit is vital to avoiding the "us versus them" mentality. Problems should be handled as challenges so that finding solutions becomes more important than laying blame.

Consulting Editor Vance J. VanDoren, Ph.D., P.E., contributes articles on process control, advanced control and systems integration and edits Control Engineering's and Packaging Digest's annual Automation Integrator Guide.

Use effective communication, planning for large-scale integration projects

projects can involve entire factories, millions of dollars of equipment and hundreds of engineering hours by both the system integrator and the client.

Yet sheer engineering hours are not enough. The integrator must also supply a project team experienced with the diverse automation technologies required for the project, as well as the peculiarities of the client's industry and the operations of the existing facility. That's easy enough when the project involves a single packaging machine, but for an entire factory full of packaging, labeling and material-handling

system integrators and/or the automation product vendors with the deepest pockets.

Either way, advanced planning is critical. Clients should define not only their need for automation, but also the specific objectives they hope to achieve and the metrics by which they will measure their success. This is especially true for projects with so many details that no single engineer or project manager could possibly track them all. The project's return on investment need not necessarily be expressed in dollars, but it must be well-defined and readily measured. But even the most detailed



Do you know what you'll be packaging in 5 years? 10 years?

Neither do we.



Endless layout possibilities

Stacks every package type

Industry leading pattern building technology

Automatic tool-less changeover

Easy to operate controls package

Flexible palletizers designed to handle your present & future packaging challenges

Columbia
www.palletizing.com

Find your
palletizing solution at
www.palletizing.com
1-800-628-4065

See us at WestPack Booth #5079



Last year, Avomex/Fresherized Foods, the largest producer of guacamole and avocado products in North America, saved **\$257,000.00** by switching from pre-print to a Generic Case Printing Program and a Case Printing System from Iconotech. Their projected savings over five years will amount to **\$1,892,000.00**.

Go to www.iconotech.com to download a free copy of the Avomex Story and see how they did it. This information could save your budget next year.

i iconotech
the only name in generic case printing

www.iconotech.com 800.521.0194

See us at WestPack Booth #4811



More Competitive Bids On Your Business Purchases **Less Bull**

Streamline your business purchasing process by using BuyerZone to get fast, competitive bids from top local and national vendors.

Join the millions who have saved time and money by relying on BuyerZone's Request for Quotes service across more than 125 categories of business purchases. Best of all, it's free.

Buy smarter and start saving today!

Visit www.BuyerZone.com

Use BuyerZone to get FREE price quotes for the following types of purchases:

- Materials Handling
- Industrial Equipment
- Office Equipment & Furniture
- Security Systems
- Marketing Services
- Financing Solutions
- Information Technology
- Telecommunications
- Construction Equipment
- HR & Benefits
- ...and more

BuyerZone
Where Smart Businesses Buy and Sell

A division of

 Reed Business Information.

www.BuyerZone.com



Second life

RECYCLING and WASTE-TO-ENERGY

technologies promise eco-friendly 'second lives' for flexible packaging.

Linda Casey, Associate Editor

The **Flexible Packaging Association** (www.flexpack.org) pegs the annual sales of the U.S. flexible packaging industry at \$25.6 billion. As the second-largest packaging segment in the U.S., flexible packaging and its disposal are an important part of any discussion about eco-friendly packaging.

The increasing interest in sustainable packaging may, in fact, increase demand for flexible packaging, as it weighs less than many other types of rigid packaging, including metal, rigid PET and glass containers. By using lightweight packaging, e.g., flexible pouches, companies can reduce the amount of fuel used and greenhouse gases emitted during transportation. If the packaging consists of a single-layer flexible construction, it also can be easily recycled at the end of its useful life.

Packaging reborn

If the spent packaging has a multilayer construction, end-of-life (EOL) options traditionally were limited. "Multilayer packaging is very difficult to recycle because it contains many different polymers," says **Polyflow Corp.** (www.polyflowcorp.com) CEO Joe Hensel. Often, spent multilayer packaging reached a very final end: burned in an incinerator or entombed in a landfill. Neither of these options add to the sustainability or useful life of the packaging.

Hensel's company is working on a technology that will recycle mixed, dirty plastic and rubber waste, sans sorting. "Our process can even take metallized film," he remarks. The process also does not require metal screws or paper labels to be removed from the packaging before processing.

Using high-temperature anaerobic de-

polymerization and chemical reactions, the Polyflow process converts mixed-waste polymers back into monomers that can be sold to petrochemical companies to make polymers. Hensel says the technology could reduce U.S. dependence on foreign oil used for plastic manufacturing by as much as half.

Major products of the Polyflow process are styrene and its precursors, gasoline blendstock and other hydrocarbons. The company says its technology will be able to produce 0.7 tons of light hydrocarbon liquid for every ton of polymer feedstock.

Polyflow does admit that at this stage in development, the concept carries processing costs that are about 10 percent higher than those of a typical major petrochemical company making the

same virgin products. Where the Polyflow concept enjoys an economic advantage is the cost of raw materials; Dirty, mixed plastic and rubber feedstock often is available locally, in abundance and carries a low price tag.

Redefining trash

Mixed-plastic feedstock, including flexible packaging, also can be found in municipal solid waste (MSW), which is the wastestream that is collected by community and private waste-management services. According to the **U.S. EPA** (www.epa.gov), more than 30 percent of MSW generated in the U.S. is recycled annually and the majority of the remaining MSW typically ends up in landfills. In its report *Energy from Waste: A Wasted Opportunity*, the **Institution of Mechanical Engineers** (www.imeche.org) suggests contrarian thinking when determining the most eco-conscious EOL options for MSW. The group encourages consideration of energy consumed and more greenhouse gases emitted in a product's recycling process before assuming that recycling is the 'greenest' option for MSW. Instead, the group states that MSW "should not be regarded as a problem to be 'dealt with,' but as a valuable resource."

When MSW is used to provide a fuel source for generating electricity, it is considered by the EPA to be a renewable power source, despite the fact that the mixed waste often contains nonrenewable materials such as flexible packaging. **The Energy Information Administration of the U.S. Dept. of Energy** (www.eia.doe.gov) states that nonrenewable

To test the technology, the development company has built a prototype processor, which it is beta testing at its headquarters in Akron, OH. The company expects to have a full-size production plant built by 2011.



materials, such as plastics, make up an increasing proportion of MSW, and 44 percent of the energy value of MSW in 2005 was from nonbiogenic sources.

Releasing captured energy

Approximately 89 MSW-fired power plants produce about 0.3 percent (approximately 2,500 mw) of total U.S. power generation, according to EPA data. Several of these facilities are owned by **Wheelabrator Technologies, Inc.** (www.wheelabratortechnologies.com), which opened its first large-scale, commercially successful waste energy project in the U.S. in 1975. "In the last few years, the same issues that caused the industry to grow 30 years ago have resurfaced: Environmental awareness; rising energy prices; and a lack of readily accessible landfill capacity," says Wheelabrator vp of public affairs Frank Ferraro. "Concerns over climate change, increasing demand for renewable energy, the push to reduce our dependence on imported oil and communities wanting more local control over the waste disposal have all been stimulating renewed interest in the sector. However, the most significant of these issues has been energy prices and the goal of energy independence."

As Ferraro describes it as "an indigenous fuel source," MSW is an abundant, cheap and locally available fuel source for power plants. The latest EPA figures report that more than 229 million tons

of MSW was produced in the U.S. in a single year.

To release the energy from the waste, MSW-fired power plants first need to convert the trash to heat. For example, Wheelabrator uses a process that burns MSW at temperatures exceeding 2,500-deg F.

The first part of the company's process is waste collection. Trucks enter a closed reception area and unload MSW into a concrete receiving pit, where overhead cranes transfer the refuse into one of multiple boiler-feed hoppers. Each boiler contains an inclined, reciprocating grate system that slowly moves the MSW through the high-temperature combustion process. Air for the combustion process is drawn from being in a closed reception area. This can help to maintain negative air pressure in the reception area and to prevent the release of odors and dust.

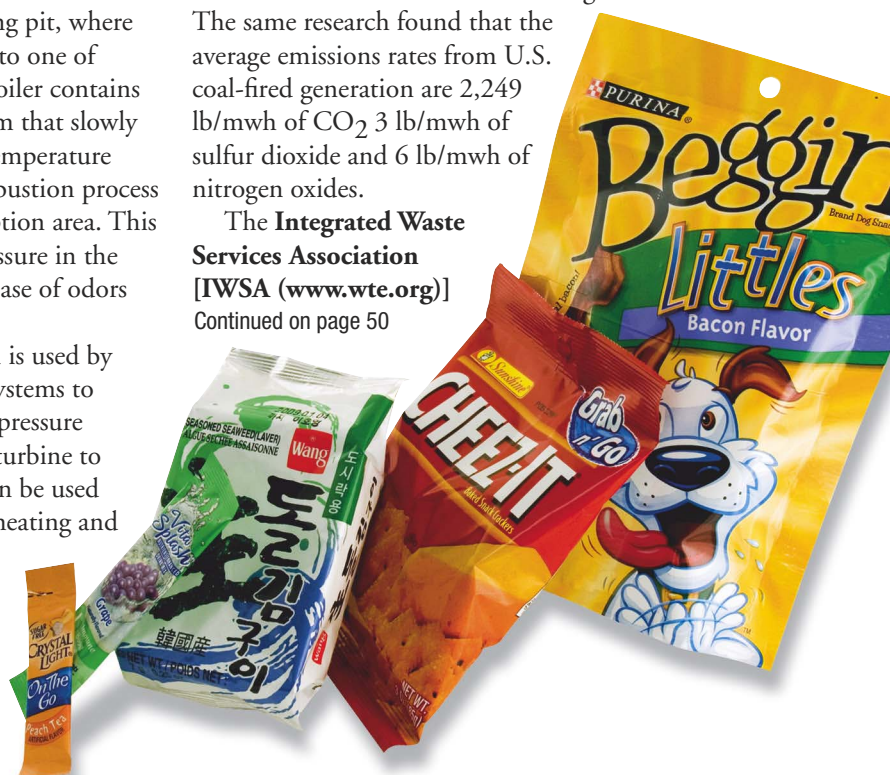
Heat generated by the combustion is used by refuse boilers surrounding the grate systems to convert water in the boiler into high-pressure steam, which is used to turn a steam turbine to generate electricity. The steam also can be used for industrial applications or district heating and cooling.

Keeping a close watch

Research from the **Solid Waste Association of North America**, [SWANA (www.swana.org)] presented in the paper,

"Comparison of Air Emissions from Waste-to-Energy Facilities to Fossil Fuel Power Plants," by Jeremy K. O'Brien, P.E., quantify the average air emission rates from a U.S. MSW-fired power plant at 837 lb of carbon dioxide/megawatt-hour (mwh) of electricity generated, 0.8 lb/mwh of sulfur dioxide and 5.4/mwh of nitrogen oxides. The same research found that the average emissions rates from U.S. coal-fired generation are 2,249 lb/mwh of CO₂ 3 lb/mwh of sulfur dioxide and 6 lb/mwh of nitrogen oxides.

The **Integrated Waste Services Association** [IWSA (www.wte.org)] Continued on page 50



Does your label supplier leave you feeling like a small fish in a big pond?



Over 130 Years Treating Customers Like Gold!

In-house Design & Prepress
Optimyser™ 7-Color Printing & Label Management
Promotional Label Application
Point-of-purchase Displays
Next Generation Production Equipment

Family-owned provider of pressure-sensitive, shrink-sleeve, cut-and-stack paper and film, in-mold, and package-promotional labels - with a personal touch - since 1877

Be a big fish in our pond!



800/473-3464
www.smythco.com

TRONICS®
 ADVANCED LABELING TECHNOLOGY

Mention this ad
 & receive
5% OFF!

Key Features

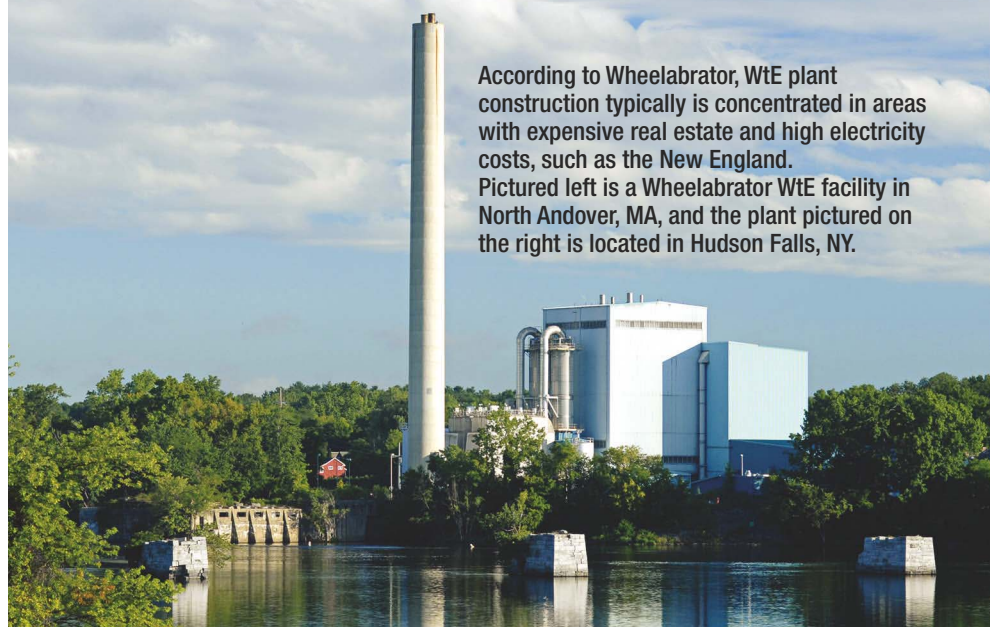
- Rapid tool-less changeovers
- Synchronized stepper motors to all drives
- Graduated quick reference adjustments
- Touch pad controls with 100 job memory
- Modular design field upgrade ready
- Labelers in stock
- Specialty Pressure Sensitive Label Applicators

Series 3 Labeling System



Additional Equipment:
Stand Alone Labelers & Print & Apply Applicators

866.464.9339
www.TronicsAmerica.com
sales@TronicsAmerica.com
 1430 E. 86th Place Merrillville, IN 46410



According to Wheelabrator, WtE plant construction typically is concentrated in areas with expensive real estate and high electricity costs, such as the New England. Pictured left is a Wheelabrator WtE facility in North Andover, MA, and the plant pictured on the right is located in Hudson Falls, NY.

boasts that waste-to-energy (WtE) power plants are subject to emissions standards that are among the most stringent in the world and that, under the Clean Air Act, more than \$1 billion was invested by U.S. WtE facilities to upgrade air quality control systems. These systems include selective noncatalytic reduction (SNCR) converters, which change nitrogen oxides into nitrogen by spraying ammonia or urea into hot furnaces; scrubbers, which spray a mixture of lime and water into hot exhaust gases to neutralize acid gases and improve the capture of heavy metals; carbon injection systems, which blow powdered carbon into the exhaust gas to absorb mercury and reduce emissions of trace organics such as dioxins; and baghouses that use multiple fabric filter bags to clear the air of soot, smoke and metals.

Boasting that these controls have resulted in dramatic reductions in emissions, the IWSA states that WtE plant emissions from 2005 represented a dramatic drop of more than 90 percent in several categories, including mercury, cadmium, lead, particulate matter, compared to plant emissions data from 2005.

Negative emissions

WtE power often is used to serve electrical power needs that would have been served by fossil-fired facilities. Data from the technical paper, "The impact of municipal solid waste management on

green house gas emissions in the United States," published by the **Air & Waste Management Association** (www.awma.org) support this claim. Researchers found that producing electricity in WtE plants avoids 5 million metric tons of carbon equivalents (MMTCE) in greenhouse emissions that would have been produced by fossil fuel electrical energy generation and avoid 6 MMTCE in greenhouse emissions if the MSW were landfilled. Therefore, electricity created from MSW-fired plants sometimes is referred to as a "negative emission" power source.

The U.S. is ready to consume this power, as its appetite for electricity isn't expected to wane. In the DOE/EIA-0383(2008) report, "Annual Energy Outlook 2008 with Projections to 2030," the Energy Information Administration projected that total electricity sales are expected to increase 29 percent from 3,659 billion kw hours in 2006 to 4,705 billion in 2030.

New research on the horizon

As multilayer flexible packaging continues to grow in popularity, the need to explore more end-of-life options becomes more imperative. The Flexible Packaging Association is working with the **Battelle Memorial Institute** (www.battelle.org) on comprehensive research that will be offered exclusively to FPA members, about the

sustainability of flexible packaging. The study, which includes end-of-life scenarios, should be complete in Spring 2009. "The main focus is to understand energy use and energy savings that accrue from the manufacture and use of flexible packaging, with end-of-life being one element to consider in determining the sustainability of a package and product the package holds," says FPA president Marla Donahue.

More information is available:

Flexible Packaging Association, 410/694-0800.
www.flexpack.org.
Air & Waste Management Association, 800/270-3444.
www.awma.org.
Battelle Memorial Institute, 800/207-2011.
www.battelle.org.
Integrated Waste Services Association, 202/467-6240.
www.wte.org.
Institution of Mechanical Engineers, 44 0 20 7090.
www.imeche.org.
Polyflow Corp., 330/253-5912. www.polyflowcorp.com.
Solid Waste Association of North America, 800/467-9262. www.swana.org.
U.S. Dept. of Energy, Energy Information Administration, 202/586-8800. www.eia.doe.gov
U.S. Environmental Protection Agency, 202/343-9990.
www.epa.gov.
Wheelabrator Technologies, Inc., 800/682-0026.
www.wheelabratortechnologies.com.

Print Apply Labeling Tamp or Blow Starting at \$6995



OPTIONAL ACCESSORIES

- CORNER WRAP LABELING
- ADJACENT PANEL LABELING
- CONVEYOR SYSTEMS
- BAR CODE VERIFICATION
- RFID ENABLED PRINTERS

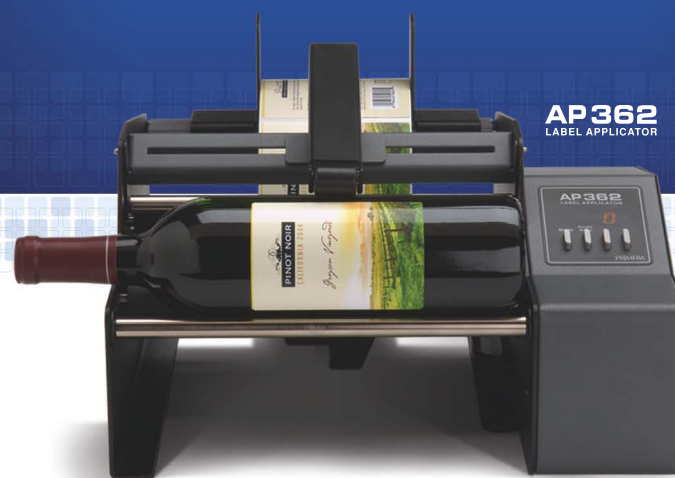


autolabe
3101 Industrial Avenue Two
Ft. Pierce, FL 34946

1-800-634-5376

www.autolabe.com

Apply Labels Fast and Accurately with an AP-Series Label Applicator



- » Quick set-up and easy operation
- » Up to 1200 containers per hour
- » AP360 one label per container
- » AP362 two labels per container

Online video at
www.primeralabel.com/APvideo

PRIMERA
TECHNOLOGY, INC.

1-800-797-2772
www.primeralabel.com

See us at WestPack Booth #5256



WestPack is back

The **WEST COAST'S BIGGEST PACKAGING EVENT** offers special-focus pavilions, co-located shows and a conference on medical packaging design.

David Bellm, New Media Editor

One of packaging's most important tradeshow comes to Anaheim, CA in February. WestPack 2009 is expected to draw thousands of attendees from all facets of the packaging world.

To emphasize topics of particular importance, WestPack includes five special-focus pavilions: Contract Packaging & Outsourcing Services; Cosmetic & Personal Care Packaging; Green Packaging; Material Handling & Logistics; and Pharmaceutical & Nutraceutical Packaging.

In addition, WestPack also hosts a number of co-located events. Of particular interest to packaging professionals is Automation Technology Expo (ATX) West, which focuses on the latest technological advances in custom automation and assembly, robotics, control software and more.



Also expected to be popular among attendees is the Green Manufacturing Expo (GMX), which is co-located with WestPack. This event showcases software, materials, products and technologies that enable manufacturers to achieve sustainable manufacturing. Within GMX, the Green Packaging Pavilion will be featured.

Other co-located events of interest include the Medical Design & Manufacturing West show, Design & Manufacturing and the PLASTEC West Pavilion.

Included in the Medical Design & Manufacturing West show is a day-long conference on medical packaging design and testing that will address a number of key topics for those involved in the field.

Registration for the conference is \$595 before January 16, or \$695 after that date.

WestPack 2009 runs February 10 to 12 at the Anaheim Convention Center. Registration is free before the show, or \$55 onsite. For more information or for registration, go to www.westpackshow.com.

■ **More information is available:**

Canon Communications, LLC 310/445-4200.
www.westpackshow.com.

Models C-50 & C-100 Stand-Up Pouch Capabilities



LAMINATE OR POLYETHYLENE

Compact in size, these high-speed form/fill/seal packaging machines feature exceptional precision and reliability, along with quick-change features for versatile operation.

- high speed C-50: 50/BPM; C-100: 100/BPM
- fast, automatic sealing of bags
- variety of products — automotive, food, electrical, pharmaceutical, toiletries, and more
- easy maintenance and quick change over for minimum down time
- economical to operate — lower power consumption
- servo drive system



A Division of B & M Industries, Inc.

Telephone: 813-754-9960 • Fax: 813-754-9321
E-mail: bodopak@worldnet.att.net
www.bodolaypackaging.com

Optimum Solutions For The Quality Control Of Flexible Packaging Products



We produce a whole range of testing instruments for the flexible packaging industry. We pursue technical innovation and conscientiousness. We have a talented team of expertise and dedication. Our distributors deliver professionalized technical support and quality customer services in your local region. We have more than three thousand customers and excellent reputation world-wide.

- ✓ Complying with ISO, ASTM, GB, and all other relevant standards
- ✓ Continuing technical support services
- ✓ Lower production costs
- ✓ Good price
- ✓ On time delivery

Labthink®

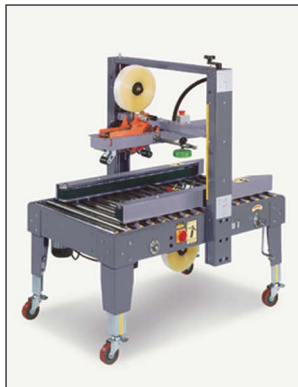
www.labthink.cn

+86 531-85811021
trade@labthink.cn

info showcase

For more information, contact **Barbara Levin** at (630) 288-8474, blevin@reedbusiness.com

Literature and other multimedia, product announcements and websites for packaging machinery, materials, containers, supplies, and services. Contact supplier directly or respond online for information.



Introducing a New Line of CASE SEALERS

A.B. Sealer, Inc. introduces a new line of CASE SEALERS starting at \$2,900. From Semi-Automatic to Fully Automatic Random there will be a sealer to fit any budget. Sealers are available in stainless steel. A.B. Sealer also offers for the first time a Stainless Steel Tape Head. A.B. Sealer Maximum Series Case Erectors are RUGGED, COMPACT and have no tools required changeover. The Maximum Series will give you the widest case range in the industry. View demonstrations of the MAXIMUM SERIES CASE ERECTORS on our website at www.absealer.com. **A.B. Sealer, Inc.** sales@absealer.com, 877-885-9299

Liquid Nitrogen Injection

Cryotech provides value-added insight to your production operations. Our project engineers have a wealth of practical LN2 dosing knowledge from hot-fill PET to ultra-light weight bottles, glass bottles, aluminum cans, custom shaped PET bottles, aluminum tubes, and glass to plastic conversions. We also have experience from water to wine; peanuts to pie filling; and ice cream to iced tea.

Cryotech International, Inc.

408-371-3303; Fax 408-371-3320

salesinquiry@cryotechinternational.com

www.cryotechinternational.com



New Servo Rated Series S

Cone Drive introduces the NEW servo rated Series S.

The first of its kind, the Series S is an affordable reducer offering the performance you expect from Cone Drive. Ideal for wash down applications, the IP55 rated all-aluminum housing represents a weight savings of over 30%. Every Series S is shipped lubricated for life and maintenance free. The Series S is the ideal drive for general purpose packaging automation.

Cone Drive

www.conedrive.com



TRIPack

Shrink Sleeve Application Equipment



www.TriPack.net

Shrink Sleeve Application Systems

- Shrink Sleeve Applicators
- Steam Tunnel Systems including Steam Generators
- Convection Heat Tunnel Systems
- SPC Tamper Evident Banding System for Ice Cream Containers
- Sustainability in Materials and Process

West Pack Show Anaheim, CA - Booth 5314

TRIPACK LLC, 866-900-1255,

info@tripack.net, www.tripack.net



Almost 50 Years of Innovation in Packaging Machines

The IMA Group is world leader in the design and manufacture of automatic machines for the packaging of pharmaceuticals and cosmetics, tea and coffee. Our approach is not just to supply innovative and reliable machines, but mainly to be a partner for our customers, guaranteeing fast after-sales and spare parts services.

IMA North America Inc.

215-826-8500, Fax: 215-826-0400

www.ima.it

A Practical Approach to Sustainability for Flexible Packaging Buyers

The packaging industry has been abuzz about sustainability for the last few years. Whether for personal, environmental, economic, or political reasons, "sustainability" is - or should be - on everyone's radar.

AMGRAPH has published a white paper, "A Practical Approach to Sustainability for Flexible Packaging Buyers," to help customers understand current and future expectations of sustainability requirements.

AMGRAPH Packaging, Inc., 800-243-0294,

www.amgraph.com



A Practical Approach to Sustainability
for Flexible Packaging Buyers

A White Paper

by Kenneth A. Fontaine
AMGRAPH Packaging, Inc.
November, 2008

Product Identification Companies Joining

OnCode, Inc. was created by two leading product identification companies joining forces to provide superior products, service and support. Gem Gravure, a manufacturer of ink and marking equipment for the wire and cable industry since 1952, and KBA-Metronic, specialists in the design and production of printing and coding equipment since 1972, have come together to offer the highest quality product-coding solutions. Now your printing equipment, ink and world-class support come from one company.

OnCode, Inc., www.oncodeinc.com



Anysize Guide Rail Positioning System

Flexibility Engineering's Anysize Guide Rail Positioning System ends your changeover nightmares. Our streamlined design accommodates any size package-add new sizes with a simple touch of a button! Forget about costly changeovers and complicated multi-rail systems. The Anysize System lets you run the size you need, when you need it.

Flexibility Engineering

970-612-0315, www.FlexibilityEngineering.com

Tsubaki Gripper Chain™ Delivers Reliable, Long-lasting Performance

Combining high-quality Tsubaki base chain with conventional or innovative new side-swivel gripper attachments, Tsubaki Gripper Chain™ is the choice for form, fill, and vacuum seal applications. The new Type K attachments open vertically, then sideways for smooth film engagement, ensuring precise and lasting performance, even at high speeds. Gripper Chain™ features recessed riveted pins for easy chain adjustments to keep production rolling. To learn more visit our website. **U.S. Tsubaki**, 800-323-7790, www.ustsubaki.com



100% Post Consumer Plastic

Maverick Enterprises has introduced a new 100% post consumer plastic that can be made into food packaging and consumer packaging. This plastic is created from recycled PET plastic bottles. The costs of this plastic is less than non-recycled plastics such as APET, PVC, and PET so one can both save money and have a sustainable plastic at the same time!! The added feature is that this plastic has "Green Film"™ additive that makes it both biodegradable and compostable. It is still recyclable with plastics also. **Maverick Enterprises**, 704-291-9474 E-mail: sales@maverickent.net.



marketplace

NEW — REVOLUTIONARY...CAN LINE TECHNOLOGY NOW AVAILABLE!!!!!!
CURRENTLY IN USE BY ALL MAJOR BEVERAGE MANUFACTURERS



ROTARY INFEED & DISCHARGE FOR RINSER

ENTECH FABRICATIONS, INC. • 708-597-5568 • WWW.ENTECHFABRICATIONS.COM

INTRODUCING THE ENTECH FABRICATIONS, INC.

"GATLING GUN"™ @ CONTAINER FEED SYSTEM (PATENT PENDING)

- ONE "GATLING GUN"™ @ SYSTEM CAN RUN MULTIPLE CAN SIZES (BOTH HEIGHT AND DIAMETER ADJUSTABLE) IN THE SAME SET UP.
- NEW CAN SIZES CAN BE ADDED AT A MINIMAL COST.
- NO MORE LOST OR DAMAGED FITTINGS.
- LINE DOWN TIME TO CHANGE FITTING SIZES CUT TO MINUTES NOT HOURS.
- THIS SYSTEM CAN BE UTILIZED ANYWHERE YOU WOULD NEED A MULTIPLE CAN SIZE RUN.



COMPLETE BOTTLING SYSTEMS ... since 1941

Get the Reliability, Flexibility, Accuracy and Versatility you need in Packaging Machinery

www.kapsall.com



Fast Changeovers
 Little or no change parts required

200 Mill Road, Riverhead, NY 11901 USA • Tel (631) 727-0300 • Fax (631) 369-5939

- Unscramblers
- Orienters
- Bottle Cleaners
- Liquid Rotary and Straight Line Fillers
- Cap, Parts Feeders
- Automatic Cappers
- Conveyors
- Torque Monitoring
- Induction Foil Sealers
- Inspection Systems
- Complete Packaging Systems

The Proven Standard @ ... Since 1941.
KAPS-ALL
PACKAGING SYSTEMS
 KAPS-ALL CAPPER @ FILLS-ALL @
 FEED SYSTEMS @ ORIENTAINER @

DJS Enterprises
NEW AND USED PROCESS AND PACKAGING EQUIPMENT

Tisma Vertical Cartoner Model TC-50E BL
 Mateer Burt Automatic Powder Filler Neutron
 Universal Table-Top Wraparound Labeler R310
 New Aluminum Foil Induction Sealer JF-2
 New 125-500 ml Table Top Pneumatic Piston Fillers
 KWT - 500i Table-Top Heat Induction Sealer

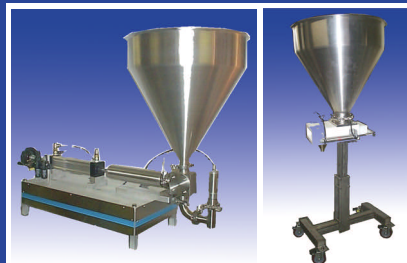
• Kaps All Automatic 3 Quill Capper A2
 • BiPak 204 Thermoforming Blister Machine
 • S-T Kwik-Sort Bottle Unscrambler BSF-30
 • King Automatic Wraparound Labeler LH-6
 • Sunshine Powder Vertical FFS SP-203
 • Sabel Case Packer & Sealer Model SE-10

Complete Packaging Lines for Tablets, Capsules, Liquids, and Powders
Process Equipment: Mixers, Tanks/Kettles, Granulators, & Coating Pans

www.djsent.com • email: sales@djsent.com
MOST EQUIPMENT CAN BE INSPECTED IN TORONTO!!!

2700 • 14th Avenue, Unit 6 Phone: 905-475-7644 Toll Free: 888-DJS-SALE
 Markham, Ontario L3R 0J1 Fax: 905-475-7645

WHEN PERFORMANCE COUNTS



VOLUMETRIC FILLERS

Liquids, Pastes & Powders

- direct draw fillers starting at \$2,250.00
- table top and multi-cylinder automatics
- heated hoppers, agitators, no drip nozzles, conveyors, hand cappers, etc.

www.packagingenterprises.com

GEYER Packaging Enterprises Inc.
 Philadelphia, PA
 since 1914 **800-453-6213**

- Bottle & Cap Handling
- Change Parts Storage Carts
- Used & Rebuilt Equipment
- Installation & Design Services
- Machine Repair Parts
- Experts in Rebuilding Consolidated and Resina Capping Equipment

See us at Booth # S-2826

CP CHANGE PARTS INC
 231-845-5107
 Check us out > **www.changeparts.com**

Serving "Family Owned" to "Fortune 500" companies

LABELING MACHINES
 PRESSURE SENSITIVE & PLAIN PAPER



WWW.ADVENTMACHINE.NET
 FOR MORE INFORMATION AND ONLINE VIDEOS
 ADVENT MACHINE LLC • T: 800-846-7716 • F: 323-728-2443

YOUR BEST SOURCE FOR VACUUM CUPS!



VI-CAS PRODUCES OVER 750 STYLES OF VACUUM CUPS, BELLOWES AND OBLONG CUPS IN SIZES RANGING FROM 1/8" TO 11" MADE OF LONG LASTING POLYURETHANE, VINYL, OR SILICONE.

OTHER ITEMS AVAILABLE INCLUDE
 CUP ADAPTORS • ROLLERS • BELLOWES • CAPPER DISKS

CALL FOR FREE SAMPLES - Ext. 210

513.791.7741
513.791.6484 FAX

www.vi-cas.thomasregister.com



PACKAGING EQUIPMENT
NEW & USED PACKAGING MACHINERY
YOUR MIDWEST CVC DEALER

"Complete 'turn-key' line integration"

MIDWEST PACKAGING SYSTEMS

PH/FAX: 636-225-1555
 E-mail: midwestpak@aol.com
www.midwestpackagingsys.com

KNF **FLEXPAK**
 Bags Pouches Tubing Sheeting

YOUR COMPLETE SOURCE FOR ENGINEERED FLEXIBLE PACKAGING SOLUTIONS

KNF FLEXPAC CORP.
 Phone: 570-386-3550 • Fax: 570-386-3703
www.knfcorporation.com
sales@knfcorporation.com

www.packagingdigest.com

WATERLESS CAP SEALER®
Automatic & Semi-Automatic Induction Sealers

- Advanced "SMART SEAL™" digital induction sealer technology
- Compact/user friendly/stainless steel construction
- Complete inspection and quality assurance systems
- Maintenance and trouble-free
- Cost effective, seals a wide range of containers and caps
- Originator of the "Waterless Cap Sealer"

AutoMate TECHNOLOGIES LLC
www.automatetech.com
 34 Hinda Blvd., Riverhead, NY 11901 USA • Tel (631) 727-8886 • Fax (631) 369-3903

Since 1880

LOEB
 Equipment & Appraisal Company
The Ultimate Tool

- Buying, Selling, Renting and Leasing High-Quality Processing and Packaging Equipment
- Certified Market Value Appraisals
- Equipment Warranties
- Asset Management Services
- Liquidating Single Machines and Entire Facilities
- High-Risk Leveraged Equipment Financing
- Reconditioning and Set-Up Services

Call Us At 1-800-560-LOEB
www.lobequipment.com (5632)
sales@lobequipment.com

Relax...

Whether you are looking for a reliable and affordable container-handling solution, or need a complete system, let **FEMC** take the worry out of your decision-making process.

FEMC®
216-663-1208
www.femc.com

www.packagingdigest.com

PACKAGING DIGEST Marketplace Sales Manager
 2000 Clearwater Drive, Oak Brook, IL 60523 • Fax: (630) 288-8750
 Attn: Barbara Levin • Phone: (630) 288-8474
 E-mail: blevin@reedbusiness.com



Machinery & Materials



World's Largest Supplier of Rebuilt and New Processing & Packaging Machinery

UNION
STANDARD EQUIPMENT

www.unionmachinery.com

718.585.0200

sales@unionmachinery.com

Family Owned • Since 1912

marketplace

Services

SERVICE NOW

For Your Domino Inkjet Printer Needs
• EXPERT SERVICE • FACTORY PARTS
 Highest Quality Replacement Fluids

CALL NOW 1-973-783-2198
 Email: servicenow@verizon.net
<http://mysite.verizon.net/vzewx45a/>

Machinery & Materials

GALLIMORE
 INDUSTRIES, INC.

- In-pack promotions and inserting equipment.
- Overwrapped and direct food contact inserts.
- AIB approved-superior rating.
- Lease, sell or use if we do the printing.
- Bandolier inserter also available.

847-356-3331
800-927-8020
mark@gallimoreinc.com
www.gallimoreinc.com



- Inline Liquid Filling & Capping Systems
- Volumetric Gravity, Volumetric Pressure/Gravity & Pump Filling Technologies
- Thin to Thick Liquids including Molten & Foaming Products
- Food Grade, Sanitary, Pharmaceutical, Hazardous & Corrosive Environments

See us at
 Booth # S-2826

E-PAK
 MACHINERY INC

219-393-5541

Check us out > www.epakmachinery.com

Serving "Family Owned" to "Fortune 500" companies

SUCKERS BY THE ZILLIONS! FOR PACKAGING & PRINTING



A large variety of rubber and vinyl Rudow Suckers available.



Wm. B. Rudow Co.

Phone (941) 957-4200

Fax (941) 955-7666

P.O. Box 2300/Sarasota, FL 34230

Contract Packaging

BRINGING YOUR PRODUCTS TO MARKET FROM CONCEPT TO CONSUMER SPECIALIZING IN SUPPLY CHAIN SOLUTIONS

Aldelano Packaging Corp.
 Outsourcing Solutions

Manufacturing Support

- ▶ On-Site Project Staffing
- ▶ Material Handling
- ▶ Laboratory testing

Contract Packaging

- ▶ Anywhere in the US
- ▶ Test Market or ongoing

Warehouse Logistics

- ▶ Fulfillment
- ▶ Foreign Trade Zones

Material Procurement

- ▶ Source & Purchase Materials
- ▶ Manage Releases & Deliveries
- ▶ Many Industry Partners

Marketing

- ▶ Packaging Design
- ▶ New Product/Display Concepts

Services Provided In Your Facility Or Ours
1-800-9PACK99 (1-800-972-2599)
www.aldelano.com

Ask us about
 corrugated &
 packaging
 supplies!

UNIT DOSE AND MULTI-DOSE CONTRACT PACKAGING

- Guarantee freshness and purity of your product
- Reclosable and non-reclosable models available
- Sizes from 0.33ml to 10ml

For more information
 call **954-963-6226**
www.lfweb.us



LameplastGroup

3890 Pembroke Rd. • Hollywood, FL 33021 USA
 Fax: 954-963-6227 • E-mail: lfweb@lfweb.us



www.ads4reed.com

**Design it,
 check it,
 then
 upload it!**

Ads4Reed, the convenient digital advertising portal, saves you the time and expense of shipping your magazine ad files for publication.

Just log on to Ads4Reed.com and within minutes, your ad is digitally reviewed online for specification compliancy, then it's on its way to the publication of your choice.

You receive an instant email confirmation that your file has been received and found to be compliant to our specifications.

- Create your own, unique user name and password
- First-time user guide
- Upload your ad to just one, or multiple pubs
- Store ads that were previously submitted
- Technical Help Line helps you troubleshoot file problems

**This is
 a FREE
 Service!**

This service offered exclusively to Reed Business Information advertisers!

Daily Packaging News eNewsletter

Get the day's hottest packaging news delivered to your desktop

- Most widely distributed newsletter among packaging decision-makers
- Keep up-to-date with global packaging news
- Learn about new, innovative packaging products and technology

Packaging Digest also offers monthly eletters to meet your information needs:

- Food & Beverage Packaging
- Pharmaceutical Packaging
- New Packaging Products
- Sustainable Packaging
- Packaging Design
- Automation & Controls
- Smart & Active Packaging
- RFID in Packaging

FREE SUBSCRIPTION.

Sign up at www.packagingdigest.com

Cuppac ****Portion Control! ****
Contract Packaging

- AIB Superior, Kosher, HACCP
- Hot, Cold, Viscous, Cheeses, Liquids, Powders, Dry, Pre-wrapped
- Turnkey solutions from concept to consumer. No minimums
- Separate peanut/tree-nut packaging facility

Toll Free: 877-347-9725 www.cuppac.com info@cuppac.com

Hot fill juices and beverages
Can, Glass & PET, Convenient to Mexican Markets

TCX
 TEXAS CITRUS EXCHANGE

Contact: Dodson Galloway
956-585-8321
Mission, Texas 78572
Email: dodson@tcxjuice.com

THE visual pak
 companies

Integrated Packaging Capabilities that are **Wide and Deep** and

Wrapped Up with Highly **Personalized Service**

Contract packaging & design	World-class customers
Liquid blending & filling	25+ years experience
Shrink wrap & assembly	Warehouse club specialty
Thermoforming	CPG expertise
Chipboard & paperboard	Abundant capacity

We invite you to get to know The Visual Pak Companies
Packaging Solutions for the World You Live In
877-689-0001
www.visualpak.com sales@visualpak.com
 Chicago Wisconsin Atlanta

PACKAGING DIGEST
Daily Packaging News

News | Technology | Equipment | Materials | Packaging | Design | Sustainability | Global | Regulatory | Market Research | Analysis | Commentary

Spponsored by

AMERICAN PACKAGING CORPORATION
 American Packaging Corporation is a leading manufacturer of packaging equipment and materials. We provide a wide range of products and services to our customers.

DYNACON CORPORATION
 Dynacon Corporation is a leading manufacturer of packaging equipment and materials. We provide a wide range of products and services to our customers.

How do you reconfigure your conveyors?
 You don't have an answer to that question, then visit the DynaCode 3-minute movie and learn about conveyor solutions.

Value Papers
 Closing the Loop: Encouraging Wireless LAN Security to Wireless Printers
 Value Technology: Download now - FREE
 Optimizing Viewport: Design for Material Handling
 PAB: Download now - FREE
 Production Drives: Purchasing Drives Up the Costs of Pre-Printed Cards
 Download now - FREE
 More white papers >>>
 Share your white paper with your peers and customers. Click here to upload your white paper on our website.

Daily Packaging News
 Editorial - Mary Ann Falkman
 Advertising - Steve Reiss

PACKAGING DIGEST
www.packagingdigest.com

newsmakers

MOVERS & SHAKERS

Barry-Wehmiller Companies, Inc.

names Jim Williams senior operations advisor.



Jorge Goldschmied
Davis-Standard LLC

Davis-Standard, LLC hires Jorge Goldschmied as director of sales for Latin and South America. He will be responsible for overseeing all sales efforts

in these regions for Davis-Standard's converting and extrusion-systems product lines.



John F. Gillen
Duro Bag
Manufacturing Co.

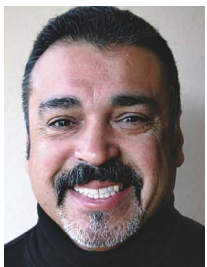
Duro Bag Mfg. Co.

names John F. Gillen president and chief operating officer and hires Robert J. Lackman for the newly created position of executive vp

of supply chain for its Duro Standard Products Div.

Chroma Corp. hires Michael E. (Mike) Masterson as senior technical sales representative for the South-Eastern territory.

Corby Plastics, LLC names Richard R. Smith director of sales.



Ruben Figueroa
Eurotherm

Eurotherm

appoints Ruben Figueroa plastics vertical account manager for the Midwest-Western region.

Evertis America appoints Ellis Emery segment business

manager for its petfood and consumer packaging business.

Crown Holdings, Inc. promotes

Timothy J. Donahue to executive vp and

chief financial officer to replace Alan W. Rutherford, who is retiring. Crown also promotes Thomas A. Kelly to senior vp and corporate controller.

Garvey Corp. promotes Bryan Minue as the new engineering manager.

Norwood Marking Systems/Allen

Coding Systems hires Paula Wilson as regional account manager, based in Charlotte, NC, to handle NC, SC, VA, GA and TN.



William Morrissey
Graymills Corp.

Graymills Corp.

hires William Morrissey as director of sales.

Pregis Corp.

names Thor Petersen as director of its distributor program.

The Reusable

Packaging Assn. appoints Jerry Welcome president.



Greg Lawson
Sun Chemical

Sun Chemical

appoints Greg Lawson vp of sales, Michel Bilodeau vp of key accounts, Colin Davie director of North American Inks business development

and Chris Parrilli vp of customer service centers in Sun Chemical's North American Inks business unit.

Sonoco appoints John Colyer vp, industrial converted products, North America; Marcy Thompson division vp and general manager, industrial products, North America and Greg Powell director of new business development, converted products.

Standard-Knapp promotes Mike Weaver to president, co-CEO Robert Reynolds to chief operating officer, and hires Kevin Catherman as national accounts manager.

GROWING & GOING

Flexicon Corp. (Australia) Pty., Ltd. triples its Brisbane, Australia operation by expanding into an adjacent manufacturing facility.

BUYING & ALLYING

Sonoco is awarded a contract for the Colgate-Palmolive pack center in Wroclaw, Poland.

DYMAX acquires the Tridak Div. of Indicon and operates as Tridak, LLC.

CELEBRATING

Michigan State University School of Packaging students win the Glass Packaging Institute's first-ever Recycle Glass Day YouTube video competition.

ad index

Page number

Advanced Mfg. Technology	44	Norden Packaging Corp.	28
All Packaging Machinery Corp.	43	Oaklee Intl.	30
Auto Labe Booth Mfg. Co.	50	Oncode	15
Ball Packaging Corp.	25	Osio Intl.	C3
Bivans Corp.	4	PakTech	45
BluePrint Automation Inc.	17	Pira Intl.	32-33
Bodolay Packaging Machinery	51	Primera Technology Inc.	50
Campak Inc.	4	Quadrel Labeling Systems	5
Canfab Inc.	11	QuickLabel Systems, an Astro-Med product group	3
Century Foods Intl.	27	RSI Systems, LLC	C-4
Columbia Machine Inc.	46	Sato America Inc.	12
CTM Labeling Systems.	16	Seal-It Inc.	22
Diagraph Corp.	7	Smyth Companies, Inc.	49
Domino Amjet Inc.	36	Squid Ink, Inc.	8-9
Eriez Magnetics	26	Sustainable Forest Initiative	39
Festo Corp.	1	Tempco Electric Heater Corp.	28A-B
Fres-Co Systems USA Inc.	40	Tharo Systems Inc.	31
Fuji Medical Systems USA	23	Transparent Container Co.	35
Gilbreth	C2	Tri-Tronics Co.	38
Iconotech	46	Tronics America Inc.	49
J.L. Clark	18-19	Universal Labeling Systems Inc.	21
Kaesar Compressors Inc.	14	Yaskawa Electric America	37
Koch Packaging Systems	30		
Labthink Instruments Co. Ltd.	51		
Leader Coding and Marking Solutions	24		
Leibinger	13		
Matthews Marking Products, Matthews Intl.	29		
Messe Dusseldorf Asia	41		
Milex	44		
Motoman Inc.	10		

also in this issue

Info Showcase	52
Marketplace	
Marketplace	53
Machinery and Materials	53
Services	54
Contract Packaging	54

sales staff

Sales and Marketing Offices

Steven Reiss, VP, Publishing Director
630/288-8807 Fax 630/288-8818
sreiss@reedbusiness.com

Robert W. Heitzman, Publisher Emeritus
630/288-8735 Fax 630/288-8750
rheitzman@reedbusiness.com

SOUTHEAST/MIDWEST

John Kimler
630/288-8736 Fax 630/288-8750
jkimler@reedbusiness.com

EAST/MID-ATLANTIC

Lisa Evans
646/746-6418 Fax 646/746-6404
levans@reedbusiness.com

EAST/CENTRAL/ONTARIO/QUEBEC

Tom Corcoran
610/696-1820 Fax 610/696-2159
thomas.corcoran@reedbusiness.com

WEST/SOUTHWEST/MIDWEST

Steve Slakis
630/288-8751 Fax: 630/288-8750
steve.slakis@reedbusiness.com

Classified/Info Showcase

Barbara Levin
630/288-8474 Fax 630/288-8750
blevin@reedbusiness.com

INTERNATIONAL REPRESENTATIVES:

Europe **Anthony Rochman**
anthonyrochman@btinternet.com
China/**Sylvia Xiao** sylvia@edoomedia.com
Israel/**Asa Talbar** talbar@talbar.co.il
Japan/**Masayuki Harihara** mail@yukarimedia.com
Taiwan/**Robert Yu** sales@wwstaiwan.com

Mary Williams, Marketing Services Manager
630/288-8745
mwilliams@reedbusiness.com

Jennifer Afarin, Group Sales Coord.
630/288-8740
jennifer.afarin@reedbusiness.com

...on packagingdigest.com

Free eNewsletters give you the competitive edge

Want to go further in your profession? Get the latest packaging news, technologies and trends delivered to your email inbox daily. Our eNewsletters bring you information on a wide range of specialized topics, and they're FREE to packaging professionals. It's quick and easy to sign up, and you can stop them at any time. Subscribe today! www.packagingdigest.com/subscribe.asp



industry happenings

Visit www.packagingdigest.com/toc-events to find a comprehensive list of packaging events happening around the world.

ProMat 2009
Jan. 12-15, McCormick Place South, Chicago

Pharmapack
Jan. 21-22, Grande Halle de la Villette, Paris

Packaging and Converting Executive Forum
Feb. 5-8, Miami

WestPack 2009
Feb. 10-12, Anaheim, CA

Packfair
Feb. 24-27, Kiev, Ukraine

Sustainability in Packaging
March 2-4, Orlando, FL



Industry Leaders

In a partnership with top suppliers, packagingdigest.com introduces the **Industry Leaders** module. When you conduct story searches, this tool can offer links to the partners' microsites for further information on the topics being explored in the story. Industry Leaders then delivers direct links to relevant products and services data from our microsites without leaving packagingdigest.com.

Packaging automation trends revealed in third phase of new research

How will new developments in packaging automation affect your company? With the recent economic upheaval, this important question has become crucial for any industry. *Packaging Digest* teamed up with *Control Engineering* for a groundbreaking, three-part research project that looks at every important aspect of packaging automation. Volume 1 looked at packagers and brand owners. Volume 2 focused on packaging equipment builders. Now, we're proud to introduce the third and final installment of the research, focusing on system integrators. You can get all three volumes FREE online. Read them today!

www.packagingdigest.com/automationresearch



newsbytes

Visit packagingdigest.com/bytes for these top headlines in the packaging marketplace.



FDA mandates increased warnings for epilepsy drugs

The FDA has increased label warnings for epilepsy drugs, noting the increased risk of suicidal thoughts and behaviors.

Dell launches effort to simplify computer packaging

Dell is implementing a plan to simplify computer packaging, intended to save more than \$8 million.

“Corrugated Recycles” 800-number now an adult line

The Fibre Box Association has phased out its “Corrugated Recycles” 800 number. But sometime during the transition, the number was purchased by an adult services company.

Wine recalled—it's 100-percent water!

Ontario's Liquor Control Board is recalling an Italian wine because some of the 1.5-L bottles of 2007 D'Aquino Pinot Grigio delle Venezie contain nothing but tap water.

Reed Business Information, A Division of Reed Elsevier Inc. • Specialized Business Magazines for Building & Construction • Computer and Communication • Electronics • Entertainment • Furniture Mfg/ Retail Furnishings • Hospitality • Manufacturing • Medical/Scientific and Processing Publishing • and Printing/Packaging.

PACKAGING DIGEST® (ISSN 0030-9117) (GST# 123397457) is published monthly by **Reed Business Information**, 8878 South Barrons Blvd., Highlands Ranch, CO 80129-2345. **Reed Business Information** is a division of Reed Elsevier Inc., is located at 360 Park Avenue South, New York, NY 10010. Tad Smith, CEO, Jeff Greisch, President, Chicago Division, John Poulin, Senior Vice President, Finance. PACKAGING DIGEST copyright 2007 by Reed Elsevier Inc. All rights reserved. PACKAGING DIGEST® is a registered trademark of Reed Elsevier Properties Inc. used under license. Periodicals postage paid at Littleton, CO 80126 and additional mailing offices. Circulation records are maintained at **Reed Business Information**, 8878 South Barrons Blvd., Highlands Ranch, CO 80129-2345. Telephone: 303/470-4445. **POSTMASTER: send address changes to PACKAGING DIGEST®, 8878 South Barrons Blvd., Highlands Ranch, CO 80129-2345.** Publications mail agreement No. 40685520. Return undeliverable Canadian addresses to: RCS International, Box 697 STN A, Windsor, Ontario N9A 6N4. E-mail: subsmail@reedbusiness.com. Rates for non-qualified subscriptions, including all issues: USA, \$132.99 1-year, \$158.90 2-year; Canada, \$177.99 1-year, \$228.90 2-year (includes 7% GST, GST#123397457); Mexico, \$163.99 1-year, \$210.90 2-year; foreign surface, \$250.99 1-year, \$298.90 2-year; foreign air \$226.90 1-year, \$402.90 2-year. Except for special issues where price changes are indicated, single copies are available for \$10 USA and \$15 foreign. Please address all subscription mail to: PACKAGING DIGEST, 8878 South Barrons Blvd., Highlands Ranch, CO 80129-2345.

Printed in USA

Reed Business Information does not assume and hereby disclaims any liability to any person for any loss or damage caused by errors or omissions in the material contained herein, regardless of whether such errors result from negligence, accident or any other cause whatsoever

Vol. 46 No. 1

Why Osio?



Exceptional Quality, Service & Value
Flexible Packaging *Made Better.*

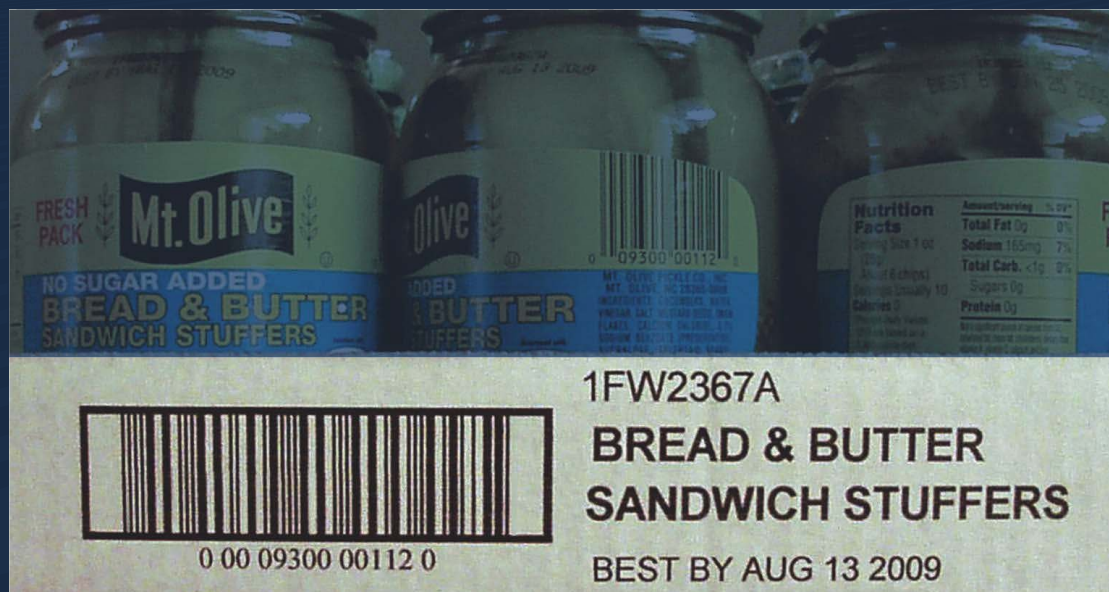
10 Color Photo-Quality Rotogravure Printing

- Shrink Sleeves
- Retort Pouches & Film
- Pre-Formed Pouches
- Cold & Heat Seal Bar Wraps
- Form Fill & Seal Roll Stock
- Lidding Stock



OSIO INTERNATIONAL, INC.
Flexible Packaging *Made Better.*

888-671-OSIO (6746)
www.osiopack.com



NO ONE ELSE CAN MATCH OUR NEW CASEJET™ MVP COMPLETE CASE CODING SYSTEMS

- ☐ Clean and reliable HP thermal inkjet technology for consistently high-quality barcodes
- ☐ Rugged enclosures and mounts protect printheads and controllers from dust, moisture, vibration
- ☐ Easy-to-use software and single buffer mode ensures right message goes on right case
- ☐ Unique adjustable printhead mount for scannable barcodes every time
- ☐ Ink management system that cuts ink waste and downtime
- ☐ Built-in serial, TCP/IP and OPC interfaces for simple integration
- ☐ Economical entry-level MVP system and more powerful MVP Plus and MVP Pro
- ☐ More uptime and fewer rejects give MVP systems the lowest total cost of ownership in their class

RSI - Your best source for reliable inkjet coding systems

Call us today!

1-866-PRINT HP (1-866-774-6847)

8345 Beechcraft Ave. Suite J
Gaithersburg, MD 20879

sales@rsipro.com
www.rsipro.com

Promo code: casejet4u_pd

Inkjet
Technology by



invent