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# EDITOR'S NOTE

## Trash Talk

A thread called 'trash talk' is trending on my social media feed. People became outraged when a waste collector dumped a recycling bin into a garbage truck, and it quickly escalated into protests at the local recycling center and requests to boycott brands and businesses that don't offer recyclable packaging.

My community isn't an anomaly. According to a report by the Recycling Partnership, the recycling rate in the U.S. actually hovers around 35% because residential waste collection services cannot recycle many types of packaging. However, the report found 84% of consumers expect packaging to be made from recyclable materials, and 71% of consumers will go out of their way to support companies with sustainable business practices.

In this issue, thought leaders explain how the packaging industry is collaborating to move the needle on sustainability and build a circular economy by: educating consumers about recyclability, eliminating manufacturing waste, increasing the percentage of recycled post-consumer waste in packaging materials, developing recyclable packaging materials and reducing carbon dioxide emissions.

Stay tuned for our August issue, and keep sending me your fantastic features! Request our [media kit](#) to see our editorial calendar, and the sponsorship opportunities our publisher Randy Green coordinates through social media, monthly e-newsletters, e-books and special reports.

Thanks for reading,

**Vicki McDonald-Kastory**  
Editor, *Packaging Technology Today*  
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New features and spouts provide opportunities for brand differentiation, and spouted pouches offer a contemporary look that works well with design-forward graphic treatments for on-shelf and online brand building. Image courtesy of Glenroy, Inc.

# THE RISE OF THE REFILL

## SPOUTED POUCHES ARE A GAME CHANGER IN A CIRCULAR ECONOMY

By Ken Brunnbauer, Marketing Manager at Glenroy, Inc.

**A**s brands in the personal care and household products industries plan new product launches or try to invigorate an established product line, choosing refillable spouted pouches can be a game changer. Until recently, refillable pouches were simply an afterthought. But with the rise of eco-conscious consumers, refill spouted pouches are now considered an essential part of moving toward a circular economy.

Choosing premade spouted pouches can be a natural choice for many brands because typically, cost of entry is affordable, product scrap waste is lower, and more pouch features are available. Also, premade spouted pouches are manufactured by experts in flexible packaging — many of whom are continually investing in new materials and pouching technology — and they can guide brands through the process from concept to commercialization.

### Benefits drawing brands to refillable spouted pouches include:

- **Completing the circle** – Not only do refillable pouches reduce plastic use (up to 80% less plastic used vs comparable rigid plastic bottles), but they can be made with post-consumer recycled (PCR) content. This reduces the plastic use even further and establishes the circularity in the circular economy, providing another stream for recycled plastic.

- **Better carbon footprint** – Beyond using less plastic, the lighter weight of a refill spouted pouch drives reduced fossil fuel usage and greenhouse gas emissions. One truckload of unfilled pouches can be the same as up to 26 trucks of unfilled rigid bottles according to the Flexible Packaging Association.
- **eCommerce friendly** – in addition to the circular economy benefits above, refill spouted pouches are tested and constructed in a way that they can stand up to the rigors of the transportation requirements of eCommerce, thus reducing product waste and returns.
- **Millennials are “flexible packaging natives”** who grew up seeing juice in pouches, and they are more accepting of pouches than any preceding generation.

### The momentum is building

Brands such as Harry's, Puracy, Kiehl's, Ouai, and Oribe are leading the charge for the refillable spouted pouch movement. Each has their own offering for refill spouted pouches which is helping them engage with their customers through a new packaging format, driving their focus on delivering sustainable, eco-friendly packaging, and is a channel to help energize sales through e-commerce.

Each brand has worked with their packaging supplier to custom-engineer their lamination specifically for their unique product formulation and required barrier properties.

Some of the behind-the-scenes options to ensure quality and consistency include:

- **Pouch engineering, sizing, and prototyping** – determining pouch dimensions and configurations based on the product type and volume; and developing digital and physical prototypes.
- **Product and package compatibility testing** – testing how the key ingredients in the product interact with various flexible packaging materials. This determines the flexible packaging materials that are resistant to chemical degradation or physical change during interaction with the product inside.
- **Compression testing** – subjecting pouches to various air pressure forces for varying lengths of time.
- **Interlayer adhesion testing** – verifying that the layers of the packaging film structure meet the required bond level for each application.
- **Seal testing** – testing for fusion seals that bond the plastics in the flexible packaging material together on a molecular level, the same way that the plastics in a rigid container are formed.
- **Puncture resistance testing** – using ASTM testing standards to analyze how much pressure is required to puncture the flexible packaging material.
- **Pour testing** – testing for a clean and controlled pour.
- **Tensile testing** – sealing the flexible packaging film to itself and testing the amount of force required for the seal to break.
- **Vacuum testing** – submitting pouches to the equivalent of 1 atmosphere of external vacuum pressure to ensure that they are hermetically sealed.
- **Burst testing** – exposing pouches to internal pressure until they burst to verify the strength of the seals.
- **Drop testing** – testing the height from which the pouch can be dropped without failing.

Each of these quality control elements allows brands to customize their refill pouch to meet various requirements such as overall quality goals, consumer needs, filling machine and/or copacker requirements, distribution methods, desired shelf life, and regulatory requirements

### Looking to the future

As more brands turn to refill spouted pouches and as the recycling infrastructure becomes modernized to accept more and more flexible packaging, the rise of refill pouches will only increase. In addition, recyclable formats of refill spouted pouches are continually being expanded to include store drop-off recyclability (or other recyclable options).

This expansion will only increase the urgency to upgrade our recycling infra-



**As eco-conscious consumers seek recyclable and sustainable materials, spouted pouches are a game changer in a circular economy.**  
Image courtesy of Glenroy, Inc.

structure. Further investment in recycling facilities is needed by all participants in the flexible packaging industry and municipalities is necessary to make the necessary upgrades a reality. But as flexible packaging providers continue to work with brands to expand the availability of eco-friendly refill spouted pouches, the momentum will become the driving force. The rise of the refill is just the beginning. ■

### About the Author

**Ken Brunnbauer is the Marketing Manager Glenroy, Inc. He has over 20 years of manufacturing experience and is an advocate for sustainable flexible packaging. Visit [www.glenroy.com](http://www.glenroy.com) and the sustainability resources page from the Flexible Packaging Association to learn more about the environmental benefits of flexible packaging formats, compared to rigid plastic options.**



**Brands work with their packaging supplier to custom-engineer their lamination specifically for their unique product formulation and required barrier properties.**  
Image courtesy of Glenroy, Inc.

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Sustainable packaging solutions place a brand's unique needs and environmental objectives at the heart of every project.

# COLLABORATION UNLOCKS SECRETS TO SUSTAINABILITY

## A COLLABORATIVE APPROACH TO PACKAGING DESIGN AND MATERIAL SELECTIONS ACHIEVES SUSTAINABILITY WITHOUT COMPROMISE

By William Kuecker, Vice President of Marketing and Chris Simmers, Vice President of Technical Services at Mondi North America Consumer Flexibles

**A** key to consumer goods marketing success for the future is sustainability, and the future is now.

A case in point: according to a recent survey of buyers of pet food conducted jointly by Mondi and Dow Chemical, 75% of consumers felt more favorably towards a brand that had sustainable packaging, and 65% said they have greater trust in brands that use sustainable packaging.

While the survey focused on a single consumer market sector, it indicates a broad acceptance of sustainable products, especially among younger demographics whose consumer goods spend will grow as they become a more significant portion of the purchasing community.

And so, a question for brands to consider is: how do we best appeal to younger, sustainability-minded consumers both now and basically

forever?

One answer lies in fully comprehending sustainable flexible packaging options and, with them, ways to achieve their adoption while maintaining or even improving package processing efficiencies. Recent advancements in materials engineering are making this possible. One new option is using mono films in place of polyester materials laminated to polyethylene materials; another is to custom-formulate multiple types of polyethylene resins into flexible film solutions.

It's worth noting that even though polyethylene is a fully recyclable material, in the flexible form it is not traditionally picked up in curbside programs. Therefore, it's essential to know if your packaging supplier has materials that are pre-approved by appropriate store drop-off programs.



**Mondi enables brands to achieve sustainability goals through a customer-centric process called EcoSolutions. It comes down to asking the right questions across the value chain to consider the needs of your business, your product, your customers and our planet.**

### From past to present

Historically, the packaging industry has employed laminated polyester and polyethylene film structures to meet flexible packaging needs for stiffness, color, print quality and other shelf-appeal characteristics. Unfortunately, these structures are not recyclable through traditional recycling channels.

Needs for sustainable flexible packaging inspired the industry to develop flexible packaging that delivers shelf-appeal branding within a sustainable packaging product.

### Collaborative design and materials selection

Surprisingly, brands do not always have a clear set of packaging sustainability goals that are communicated throughout the organization. Their company websites typically cover the business's dedication to sustainability and its past achievements, but clearly stated, quantifiable future packaging-related goals tend to be in the future horizon realm.

Let's look at how brands can best collaborate with their packaging supplier to identify, balance and meet sustainability goals pertaining to issues like life cycle assessment, greenhouse gas reduction, recyclability,



**Mondi's FlexiBag in Box is a sustainable solution designed in collaboration with customers. The ship-in-own-container (SIOC) corrugated box is paired with a recyclable flexible pouch, equipping manufacturers and retailers with a branding-through-use tool that appeals to environmentally conscious consumers shopping in stores or online.** Image courtesy of Mondi.

compostability, plastic reduction and recycled content.

To arrive at a solution that is sustainable

by design, we need to question everything. This means looking at all the solutions, production processes, materials, and specifications needed to protect the product. The approach puts a brand's unique needs and environmental objectives at the heart of every project. It begins with a discussion of what a brand needs to meet its sustainability goals and what it is not willing to compromise to achieve them.

### Development and trial phase

A key part of the process is technical support provided during the development and trial phases of transitioning to sustainable materials. Technical specialists provide on-site trial support at machine suppliers and customer locations to help ensure that end users meet their sustainability goals.

Collaborative design and materials selection constitute a major shift in the packaging technology sector, one that is steadily replacing off-the-shelf, transactional solutions. It consists of a brand's designers and sustainability teams, along with its marketing and purchasing managers, collaborating with materials experts who have the knowledge and resources to identify sustainability and

processing opportunities and the equipment to capitalize on them.

Discussions between a materials expert and a brand's management often start with a minor homework assignment for the brand, beginning with unalterable essentials. These might include minimum specs for rigidity, needs for handling components, such as easy-open or pour and top sliders in the product appeal category. In processing, the brand might have requisites to meet form/fill/seal speeds or requirements associated with filling machines.

Color, print quality and consistency are universal priorities, but a brand might have a preference for rotogravure, HD or Ultra HD flexographic printing or want matte or gloss coatings for their packages. These factors all come into play when reaching for sustainability without compromise.

## Benchmarks for sustainability gains

At the same time, the brand will need to establish benchmarks for sustainability gains. For example: does it aim to increase its percentage of recyclable packaging by 50% by 2025; or increase PCR (post-consumer recycled) content in a particular product line by 25%?

While this up-front homework comes with an investment in time, it has proven to yield a greater likelihood of sustainability success and long-term market impact.

To illustrate the power of the collaborative approach, consider the case of zooplus AG, the leading European pet food online retailer that recently addressed growing demand for sustainable packaging. The retailer sought a solution for greater package recycling with no compromise on any performance attribute, including aesthetics

**By collaborating with Mondi, zooplus AG designed a recyclable pet food package that meets their requirements, maintains the look and feel of the high-end brand's premium packaging and eliminates metallic substances used in the original packaging graphics.**

Image courtesy of Mondi.



and barrier protection against moisture and odors.

## Testing package designs and materials

Testing throughout the collaborative method of package design is essential for formulating a package that meets both sustainability and processing goals. A packaging supplier's quality management systems should incorporate vacuum bursts and creep tests to ensure air tightness in a brand's small to large packaging and with whatever closure systems might be in place.

Other critical tests include tensile strength, dimensional measurements, coefficient of friction, drop strength, film thickness and monitoring for residual solvents.

Stiffness or rigidity testing along with resistance to stretch are especially important. A certain amount of stiffness is needed for shelf presence and appearance. It is rigidity that allows a package to stand upright on the store shelf. In addition, the tests help ensure stability in printing, laminating and other converting processes.

A parallel type of test evaluates a brand's equipment upfront, such as its form/fill/seal machinery. Detecting and adjusting faulty equipment conditions can eliminate problems that could wreak havoc with even the most carefully formulated new packaging film. Packaging consultants might suggest certain refinements or calibrations to help achieve trouble-free processing with a new sustainable film.

## Replace, reduce and recycle

A collaborative process guided by the three pillars of replace, reduce, recycle leads to the development of customized products meeting critical consumer sustainability, appearance and performance requirements. When package designs and material selections are based on collaborative partnerships with customers, packaging meets performance requirements and satisfies food manufacturers' and retailers' sustainability goals. ■

## About the Authors

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**Multiple food styles, portions and formulations require ultimate flexibility from secondary packaging machinery.**  
Image courtesy of Cama North America.

# EQUIPMENT SUPPLIERS SOLVE PETFOOD INDUSTRY CHALLENGES

## PETFOOD MANUFACTURERS COUNT ON FLEXIBILITY, SUSTAINABILITY AND EASY-TO-OPERATE MACHINES

By Billy Goodman, Managing Director, Cama North America and Wim Kruikemeijer, Global Key Account Manager, Cama Group

**W**e've witnessed a massive surge in demand for pet food and, as a result, our packaging technology. Petfood was already a significant market in 2019, and beginning in 2020 the pandemic drove pet ownership up even further. In fact, in 2021, the global pet food market size was valued at \$110.53 billion. And the market is projected to grow from \$115.50 billion in 2022, to \$163.70 billion by 2029, exhibiting a compound annual growth rate of 5.11% during the forecast period.

Increasingly, petfood manufacturers are looking for flexibility, sustainability, and easy to operate machines. Whether they're packaging dry pet food or wet, petfood manufacturers want the ability to run various product types, such as cans, cups, pouches, cartons, and bags.

### **Flexibility**

The growing "humanization of pets" presents both challenges and opportunities for petfood manufacturers. High-quality pet food and packaging is now seen as a status symbol, which we have to design, fill, pack-

age and handle ... very carefully. Not only does the primary packaging have to look good, but we also have to consider multi-flavor secondary packaging, which places extra pressures on packaging machines.

Multiple food styles, portions and formulations require ultimate flexibility from secondary packaging machinery. Petfood companies – both large and small – realize greater efficiencies when the automation of packaging operations absorbs the impact of changing market dynamics, including the natural progression of packaging. The right secondary packaging machinery manufacturer helps petfood companies keep up with trends in package formats such as cans, trays, pouches, cartons and cups. Finding a partner that can help meet the demand for multi-flavor packaging with integrated and highly flexible automation – often involving robotic pick-and-place systems – is also important.

### **Ease of operation**

From a technology and machine perspective, extra capabilities, features and flexibilities addressing market demands are also driving up machine complexity. However, it is important to make more complex



The increasing number of package styles and portion-sized packages is being bolstered by research into sustainability, easy to open packaging and new shapes and designs to give inexpensive materials a premium appearance. Image courtesy of Cama North America.

## About the Petfood Competence Network

The Petfood Competence Network is a collaboration of 11 like-minded companies with decades of combined experience, working together to offer petfood manufacturers simple and streamlined access to the very latest industry has to offer. Their expertise includes raw materials, formulation, processing, filling, transporting, sterilizing, loading, packaging and palletizing ... all of which can be tailored, developed, scaled and installed to match your precise needs – through a single point of contact!

### What Can the Petfood Competence Network do for You?

In short, the Petfood Competence Network can help petfood manufacturers get to market smarter and faster. Whether you're looking to break into this market, take your existing products or plant to the next level, or exploit new technologies and become more efficient, PCN offers full-spectrum supply and support at every single stage – from raw ingredients in, to pallets out.

**Competence.** Each company brings its own domain expertise and extensive industry R&D experiences and merges them into a complete, tightly integrated production solution, which can be trialed, scaled and fully connected to match your precise requirements, to deliver quality processes, products and packaging every single time.

**Technology.** Many of these companies already work together across the globe, not just in pet food, but also in other equally demanding industries. Mutual understanding, trust, technological integration and Industry 4.0 data architectures are already in place, proven in action and ready for you to leverage.

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solutions easy to use because operators have the same skill sets.

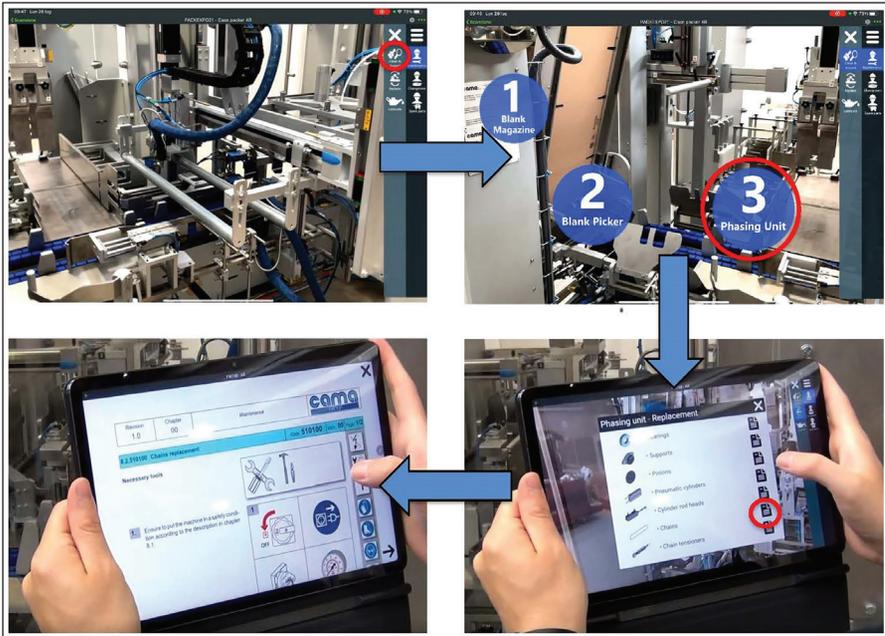
Due to labor shortages and related changes, another request for equipment manufacturers is for easy to operate machines. Petfood packagers appreciate machines that offer accessibility, quick and easy changeovers, and that are simple to learn.

Technology such as Industry 4.0 is shaping the manufacturing landscape and optimizing internal and external processes by integrating technological know-how and new digital skills into classic production paradigms. Tools such as our Augmented Reality (AR) Machine Assistant and Virtual Reality generate value with improved machines and services by supporting operator training, troubleshooting, predictive maintenance, and spare parts management.

### Sustainability

Another challenge is to improve sustainability, from a materials standpoint and from a product standpoint. We can't just look at sustainability in terms of materials or reducing plastic waste; we have to consider food waste too. Unfortunately, 25% of all food, including petfood, is wasted, and 75% of that waste is in the household, with the rest occurring during production.

It is responsible to investigate ways of helping consumers reduce waste, and to in-



**Cama's Industry 4.0 program helps the customer to stay on top of predictive maintenance and have a better understanding of the machine through augmented reality (AR) instructions. Cama designs smart machines that are easily adaptable to environmental conditions and able to learn and suggest improvements to operators.** Image courtesy of Cama North America.

**The Cama Packaging Department is a unique service offering more than 30 years of experience in the design and testing of packaging paperboard and cardboard, in order to achieve the highest efficiency when working with automatic machines. Often our engineers can suggest design modifications that will help customers reduce the corrugate used in a tray or case, in many cases saving the company 15% or more on materials.** Image courtesy of Cama North America.



**One way Cama is helping to address sustainability is the FW Wraparound Case Packer, which helps petfood packagers and other manufacturers save corrugate and reduce costs by packing their products in wrap-around or display ready cases, rather than a standard RSC.** Image courtesy of Cama North America.

crease machine efficiency to drive down production waste. For example, quick changeovers mean lower dwell times, so there is less chance for the ingredients to spoil during production. However, solutions do require a balancing act. For instance, while portion-sized packages reduce consumer food waste, they can also increase the amount of materials used, and waste produced. ■

### About the Authors

**Billy Goodman** is the Managing Director of Cama North America in Buffalo Grove, Illinois and **Wim Kruijkemeijer** is the Global Key Account Manager with Cama Group, which is based in Lecco, Italy. Cama Group manufactures cartoning, case packing, sleeving, and robotic loading equipment, with decades of experience helping global clients in petfood and other industries develop turnkey packaging systems and sustainable solutions. To learn more, visit [www.camagroup.com](http://www.camagroup.com).

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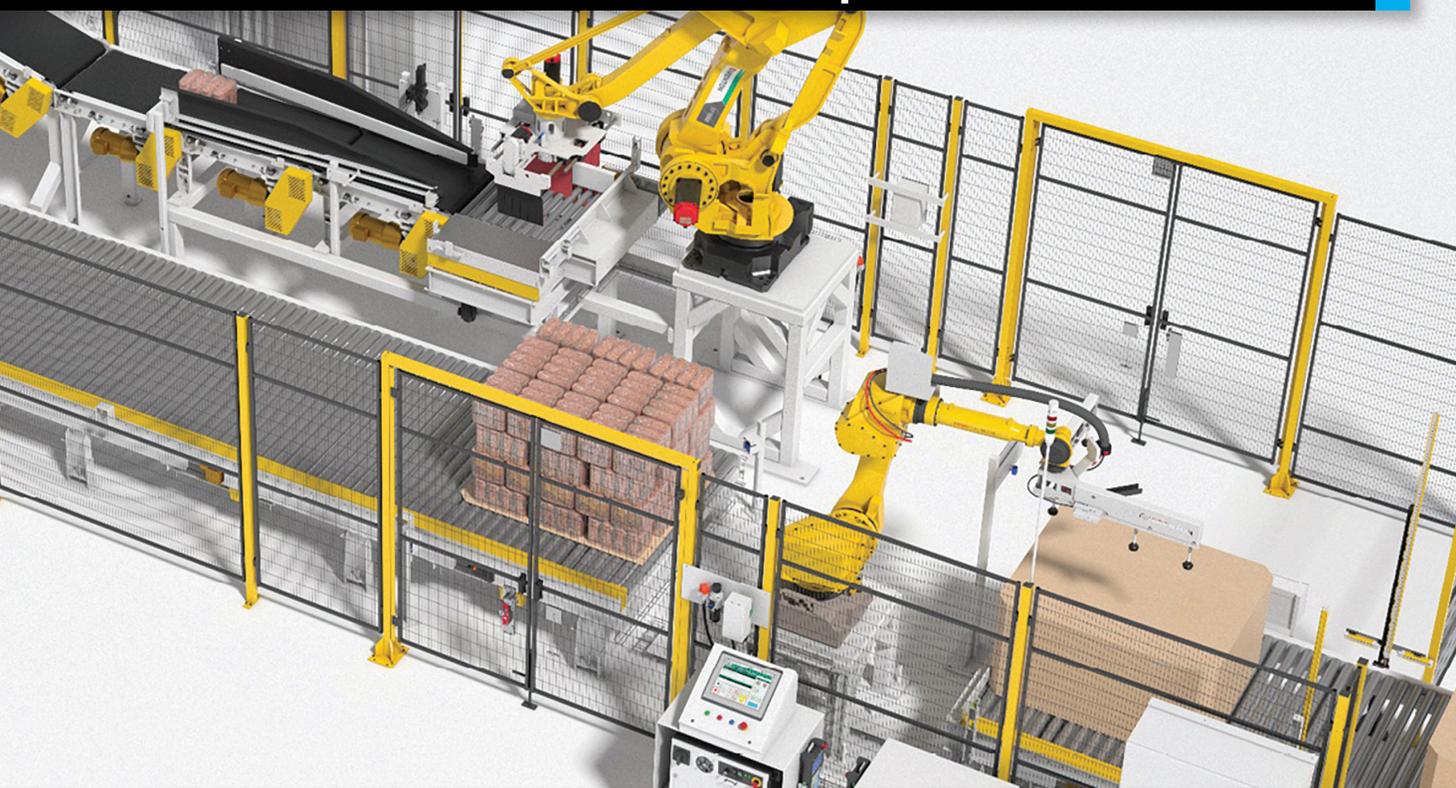
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**Brenton's latest bag palletizing solution for pet manufacturers replaces gantry solutions with an automated sheet placing robot.** Image courtesy of Brenton Engineering.

# PALLETIZING SOLUTIONS OPTIMIZE END OF LINE PETFOOD OPERATIONS

## ROBOTIC AUTOMATION SEAMLESSLY INTEGRATES EXISTING END OF LINE EQUIPMENT

By Brian Guzek, Regional Sales Manager at Brenton Engineering

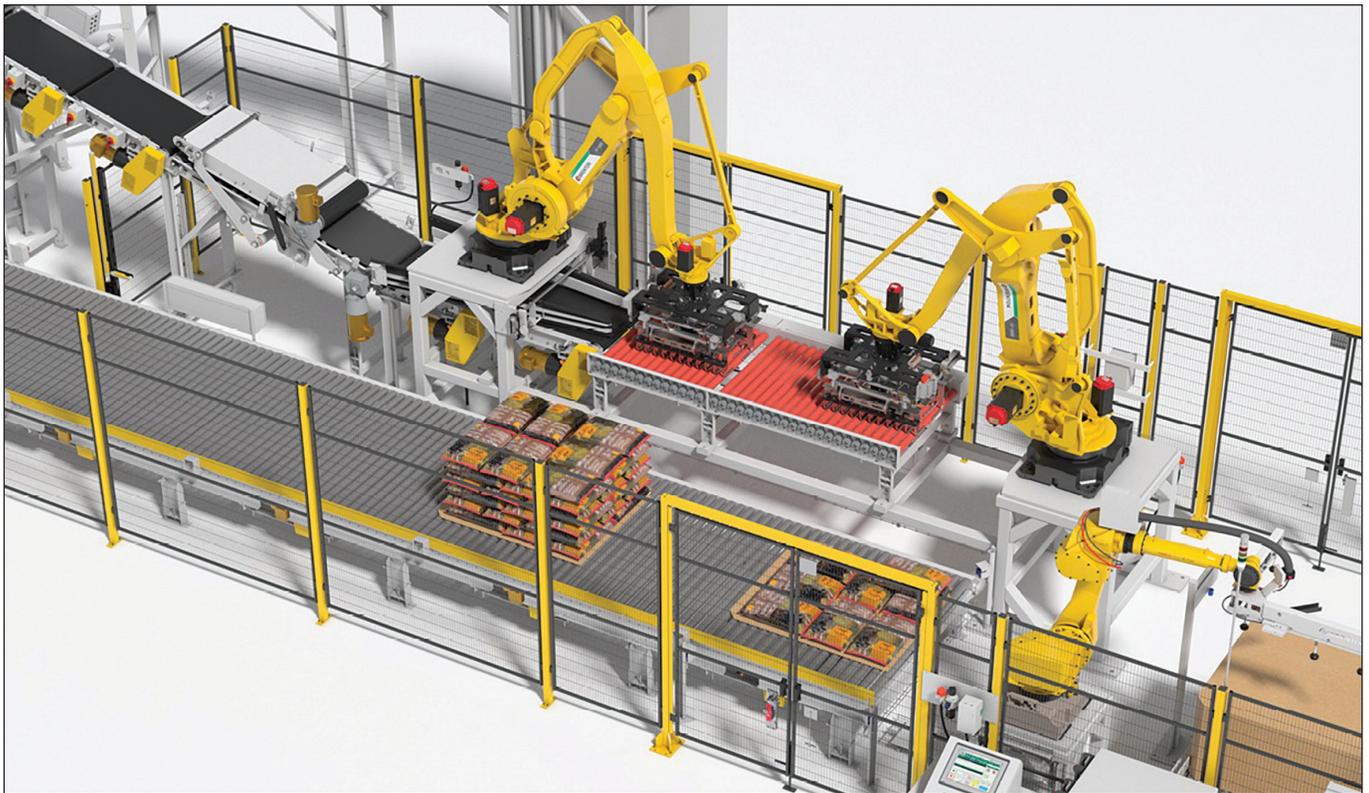
**P**etfood manufacturers, like other food manufacturers, are looking to gain efficiencies in their end-of-line operations. One way to achieve that is through automation. Adding a robotic solution brings many benefits to petfood manufacturers, including the ability to process multiple SKUs, manage varying product sizes, and create multiple pack configurations – all of which results in more streamlined throughput with reduced labor costs.

Robotic automation can be seamlessly integrated with preferred or existing equipment, case erectors, case sealers, palletizers, stretch wrappers and labelers to provide a turnkey solution. In fact, advances in robotic palletizing seamlessly integrate existing end of line equipment, and provide end-of-line solutions for petfood manufacturers. Here are answers to frequently asked questions:

### **How does palletizing equipment optimize petfood packaging lines?**

One of the main benefits a robotic palletizing solution brings to petfood packaging lines is reduced labor. In manual palletizing operations, it is common for a petfood line to have several employees stacking and building pallets. Hiring people is one thing, getting them to show up consistently is another. A well-designed system can replace three to four employees who were tasked to manually build, pack and stack cases.

For many employees, this type of repetitive, strenuous work is not very motivating, which is why retaining staff can be challenging. Robotic automation reduces the number of employees needed to complete menial tasks, while relocating them to areas where they can be more beneficial to the company.



**Robotic solutions improve the safety, flexibility and efficiency of end of line packaging operations.**

Image courtesy of Brenton Engineering.

### **What are the key benefits palletizing equipment provides for petfood manufacturers and distributors?**

In addition to replacing employees who were previously hand-stacking pallets and relocating them to other areas where they can be more beneficial to the company, safety is another key benefit to pet food manufacturers and distributors. For employees manually stacking pallets, it is not a question of if they are going to get injured, it is when.

Repeatedly bending over or poor lifting can lead to painful back strain injuries. Palletizing technology protects employees' health, while improving productivity and eliminating costs associated with medical care and workers compensation claims. In addition to a risk of injuries, hand stacking pallets leads to inconsistent builds due to individual strength or fatigue, which impacts productivity. Robotic automation solves these troublesome issues.

### **Why is flexibility important for petfood applications?**

Flexibility in robotic palletizing is more important than ever before, and a main driver of that is e-commerce sales, which are showing no signs of slowing down. To best capture your fair share of the e-commerce market, you are going to ship a greater variety of SKUs and package sizes. Having flexibility in your packaging machinery, including your palletizers, will position you to build and ship pallets to the exact specifications of retailers, distributors, and consumers. Automation also brings newfound flexibility to your operations. As your business grows, production may need to increase. An automated system with robotics can easily keep pace with your growth and will not require additional staffing as would a hand-packing line.

### **What are key features to consider when selecting palletizing equipment for petfood applications?**

The successful packaging OEMs are the ones who listen to their customers, stay abreast of consumer preferences and manufacturing trends, and who can adapt their solutions to an ever-changing land-

scape. You will be most successful when partnering with a company with sound, proven solutions, and a team that supports their machinery long after the sale is completed. That is the kind of partner you want to move forward with.

### **What questions are important to ask suppliers when integrating equipment into an existing packaging process?**

The types of questions to consider when integrating robotics into an existing end-of-line operation include:

- What is your current process, and where are you looking to go?
- What are your sales goals and how can a robotic palletizing system support those goals?
- What are you moving?
- How many SKUs are you handling?
- What style of packaging are you handling?

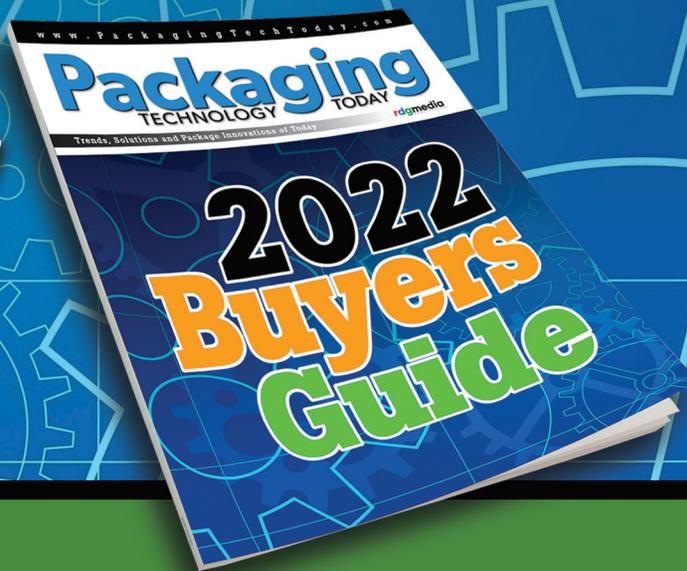
Knowing the answers to these initial questions is a great start toward selecting an end-of-line system that best achieves your goals. ■

### **About the Author**

Brian Guzek is a regional sales manager at Brenton Engineering. Brenton is a global leader in designing and manufacturing integrated end of line packaging systems and machines, specializing in case packing and palletizing using both robotics and other automation. Learn more about palletizing solutions at [www.brentonengineering.com/solutions](http://www.brentonengineering.com/solutions).



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sales@orientalmotor.com  
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[www.abbottcompany.net](http://www.abbottcompany.net)



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[www.acecontrols.com](http://www.acecontrols.com)



**Alliedflex**  
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9 Technology Drive  
Staunton, VA 24401  
540-248-2220  
Fax: 540-248-4400  
[sales@cadenceinc.com](mailto:sales@cadenceinc.com)  
[www.cadenceinc.com](http://www.cadenceinc.com)



Cama North America  
901 Corporate Grove Drive  
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1730 Cleneay Ave  
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[www.colbertpkg.com](http://www.colbertpkg.com)



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[www.mknorthamerica.com](http://www.mknorthamerica.com)

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Fax: 513-489-7485  
[www.schoberusa.com](http://www.schoberusa.com)

Simco-Ion Industrial Group  
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[www.simco-ion.com](http://www.simco-ion.com)



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Texwrap@Promachbuilt.com  
[www.texwrap.com](http://www.texwrap.com)



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sales@tgwint.com  
[www.tgwint.com](http://www.tgwint.com)



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[www.totaniamerica.com](http://www.totaniamerica.com)

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QMI, Inc.  
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### Health & Beauty

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Universal Labeling

### Heat Sealing

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### Heat Shrink Labels

**Inkjet Coding & Marking**

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### Home Entertainment

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### Horizontal Form, Fill, Seal

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### iPhone Printer

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### Label Maker

**Inkjet Coding & Marking**  
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### Labeling

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Abbott Company  
**CTM Labeling Systems**  
**Inkjet Coding & Marking**  
Matthews Marking Systems  
Ossid LLC  
Universal Labeling

### Labels

Matthews Marking Systems  
Northcore Industries, Inc.  
Universal Labeling

### Lidding Films

Griff Paper & Film

### Lifting

Pflow Industries Inc.

### Liquid Filling Machines

**Optima Machinery**

### Machine Vision

Abbott Company  
**Mettler-Toledo**

### Material Handling Equipment

Combilift USA  
**CTM Labeling Systems**  
**Mettler-Toledo**  
mk North America, Inc.  
Orion  
Pflow Industries Inc.  
Rechner Electronics Industries,  
Inc.  
Yaskawa Motoman

### Materials, Parts & Supplies

ACE Controls Inc.  
**KHK USA, Inc.**  
William B. Rudow, Inc.

### Medical

Brenton  
mk North America, Inc.  
Universal Labeling

# Product Listings

## Medical Device Packaging

Brenton  
Brisar Industries  
Cama North America  
Texwrap

## Metal Detection

Mettler-Toledo

## Motion Control

ACE Controls Inc.  
Inkjet Coding & Marking  
Oriental Motor USA

## Non-Foods

Cama North America  
Northcore Industries, Inc.

## Off-Set UV Printing on Plastic

Printex Transparent Packaging

## Overwrapping & Bundling

Brisar Industries  
Cama North America  
Texwrap

## Packaging Equipment

Abbott Company  
AZCO Corporation  
BluePrint Automation (BPA)  
Brenton  
Cama North America  
Delta ModTech  
Matrix Packaging  
mk North America, Inc.  
Powell Systems, Inc.  
Ryson International, Inc.

## Packaging Machines

Alliedflex  
AZCO Corporation  
BluePrint Automation (BPA)  
Brenton  
Cama North America  
Inkjet Coding & Marking  
Matrix Packaging  
Orion  
Ossid LLC  
Texwrap

## Pallets & Palletizing

Brenton  
Cama North America  
Orion

## Particulate Removal

Simco-Ion Industrial Group

## Parts & Accessories

KHK USA, Inc.  
QMI, Inc.  
William B. Rudow, Inc.

## Pharmaceutical

Brenton  
Brisar Industries  
mk North America, Inc.  
Printex Transparent Packaging  
Texwrap  
Universal Labeling

## Pharmaceutical Fulfillment

Brisar Industries

## Pick-and-Place/Picker Lines

BluePrint Automation (BPA)  
Cama North America

## Plastic Packaging

Brisar Industries  
Griff Paper & Film  
Printex Transparent Packaging

## Plastic POP Packaging Displays & Dispensers

Printex Transparent Packaging

## Pneumatic Conveyors & Accessories

Multi-Conveyor LLC

## POS/POP Display Packouts

Brisar Industries  
Cama North America

## Pouch Making Machinery

AZCO Corporation  
Totani America, Inc.

## Pouch Packaging

Alliedflex  
BluePrint Automation (BPA)

## Pressure Sensitive Labels

Abbott Company  
Colbert Packaging Corporation

## Printing

Inkjet Coding & Marking  
Printex Transparent Packaging

## Processing Equipment

Rechner Electronics Industries, Inc.

## Product Handling & Systems

Brenton  
Ryson International, Inc.

## Product Settling

BluePrint Automation (BPA)  
mk North America, Inc.

## Professional Services & Supplies

Lotar Enterprises

## Promo & Club Packs

BluePrint Automation (BPA)  
Cama North America  
Printex Transparent Packaging  
Texwrap

## Promotional Product Direct Mail

Brisar Industries

## Protective Packaging

Orion  
Texwrap

## Punches

AZCO Corporation  
QMI, Inc.  
Schober USA

## RF Sealing

Brisar Industries

## RF Services

Printex Transparent Packaging

## Rigid Containers

Brenton  
Cama North America

## Rigid Window Pick and Place

Printex Transparent Packaging

## Robotics

BluePrint Automation (BPA)  
Brenton  
Cama North America  
mk North America, Inc.  
Oriental Motor USA  
Yaskawa Motoman

## Robots

Brenton  
Cama North America  
Oriental Motor USA

## Rotary Cutters

AZCO Corporation

## Rotary Indexing Tables

Inkjet Coding & Marking  
Oriental Motor USA

## Sanitary Conveyors

Multi-Conveyor LLC

## Scales

Powell Systems, Inc.

## Scanners

Inkjet Coding & Marking

## Scented Packaging

Printex Transparent Packaging

## Sealers

Texwrap

## Servo Motion Control Components

Brenton  
Oriental Motor USA

## Servo Motion Control Systems

Brenton  
Oriental Motor USA

## Sheeters

AZCO Corporation

# 2022 Buyers' Guide

## Product Listings

### Shipping & Transportation

Inkjet Coding & Marking

### Shrink Wrapping

Brisar Industries  
Texwrap

### Side Weld Bag Making Machinery

Totani America, Inc.

### Signs & Marking

Inkjet Coding & Marking  
Lotar Enterprises

### Sleeving Systems

Cama North America

### Slitters

AZCO Corporation

### Specialty Packaging

BluePrint Automation (BPA)  
BPM Inc., A Specialty Paper Mill  
Brisar Industries  
Printex Transparent Packaging

### Specialty Products

Inkjet Coding & Marking  
Rechner Electronics Industries,  
Inc.

### Spiral/Vertical Conveying

Ryson International, Inc.

### Stapling Heads

BECK America

### Static Charging

Simco-Ion Industrial Group

### Static Neutralizing

Simco-Ion Industrial Group

### Stationary

Printex Transparent Packaging

### Stencil Machines

Abbott Company  
Inkjet Coding & Marking

### Stickers & Labels

Inkjet Coding & Marking

### Storage

Ryson International, Inc.

### Stretch Wrappers

Orion

### Surface Treating

Enercon Industries

### Sustainability

Cama North America  
H.B. Fuller  
Ossid LLC  
Printex Transparent Packaging

### Tape Dispensers

Abbott Company

### Tapes & Rolls

Griff Paper & Film

### Testing & Analysis

Lotar Enterprises  
Mettler-Toledo

### Thermal Transfer Overprinters (TTO)

Abbott Company

### Thermo/Vac/Pressure Forming

Brisar Industries

### Thermoform & Blister CNC Tooling

Brisar Industries

### Tipping

Brisar Industries

### Toll Printing

BPM Inc., A Specialty Paper Mill

### Tools & Fasteners

BECK America

### Tray Loading Equipment

BluePrint Automation (BPA)  
Brenton  
Cama North America

### Trayformers

Cama North America  
MARQ Packaging Systems II  
LLC

### Tray Overwrappers

Ossid LLC

### Tray Sealers

Ossid LLC

### Tube Cutters

AZCO Corporation

### Ultraviolet Equipment/Systems

Abbott Company

### Unit Cartoning

BluePrint Automation (BPA)  
Brisar Industries  
Cama North America

### Unwind/Rewind

AZCO Corporation

### Vacuum Cups

William B. Rudow, Inc.

### Vertical Form, Fill, Seal

Matrix Packaging

### Vertical Sealers

Texwrap

### Vibratory Equipment & Conveyors

Multi-Conveyor LLC

### Warehouse Equipment Inkjet Coding & Marking

Ryson International, Inc.

### Weigh Price Labelers

Ossid LLC

### Weighing Equipment

Mettler-Toledo  
Powell Systems, Inc.

### Wine & Spirits

Printex Transparent Packaging  
Texwrap

### X-Ray Inspection Systems

Mettler-Toledo



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**Mettler Toledo Demonstrates Inspection Systems at Interphex**

Mettler Toledo Product Inspection demonstrated a variety of inspection systems for the pharmaceutical and biotech industries at the Interphex conference in May, including its new X34C x-ray inspection system for pharmaceutical blister packs and pouches, which features a compact footprint of just 28 inches (700 mm) in length for easy line integration. The X34C offers accurate performance while running at exceptionally high speeds of up to 400 feet (120 meters) per minute.

Also on display was the T16 manual multi-aggregation system, part of their new line of integrated mark and verify solutions designed to help manufacturers add serialization and aggregation to their production lines for product safety and compliance requirements. Combining a high-resolution camera and advanced software algorithms, the semi-automatic T16 captures and verifies product codes on serialized cartons and aggregates them with a single click.

Mettler Toledo's newest load cell – FlashCell™ was demonstrated on a C35 AdvancedLine checkweigher. With industry-leading throughputs of up to 800 packages per minute, FlashCell enables product manufacturers and contract packers to process products more quickly and reduce product giveaway. Checkweighers with FlashCell feature a smaller footprint, allowing customers to better fit their equipment within limited factory floor space.

A Tablex-PRO system was exhibited, and is ideal for inspecting tablets and capsules. It offers ultra-high frequency operation and enhanced noise and vibration immunity to achieve exceptional detection sensitivity. With an easy-to-use color touchscreen, failsafe reject design and reject confirmation, the Tablex-PRO is a reliable field-proven solution.

Camag Group is a leading supplier of advanced technology secondary packaging systems, continuously investing in innovative solutions.

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 INTERNATIONAL BAKING EXPOSITION EXPO HALL: SEPT. 18-21, 2022  
 BOOTH: 5011

**PACK EXPO** INTERNATIONAL  
 October 23-26, 2022  
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 BOOTH: 3386



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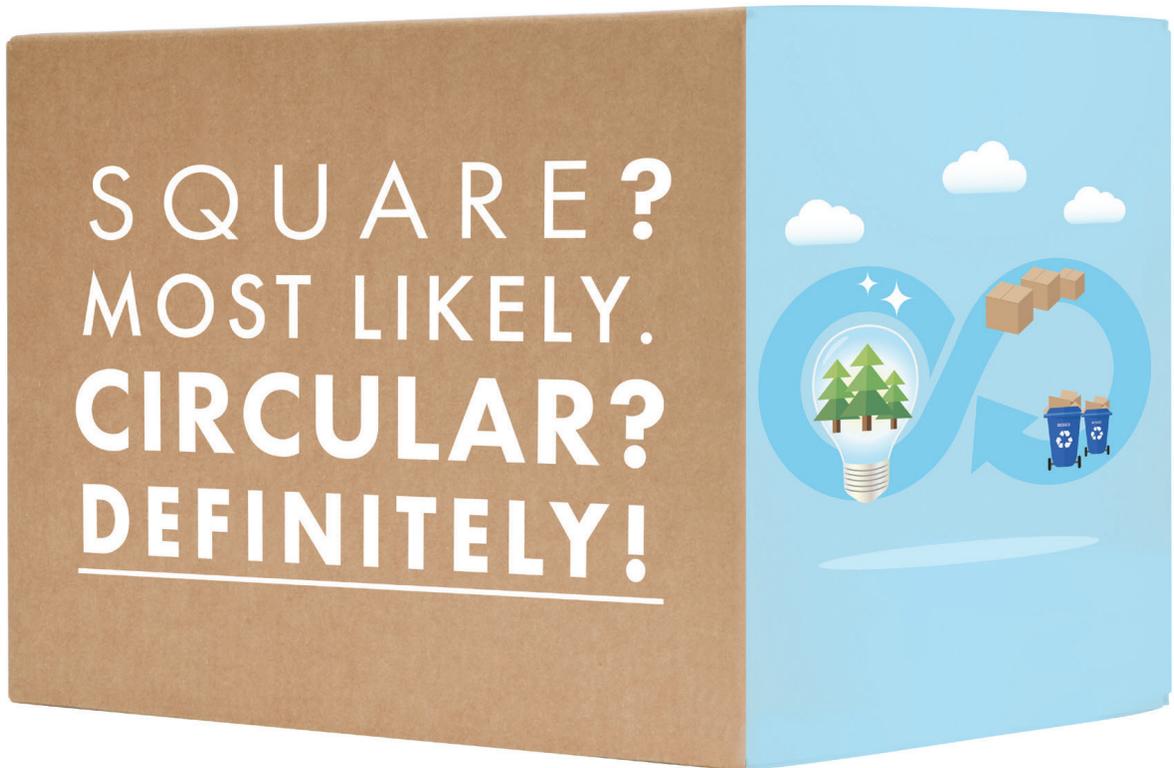
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