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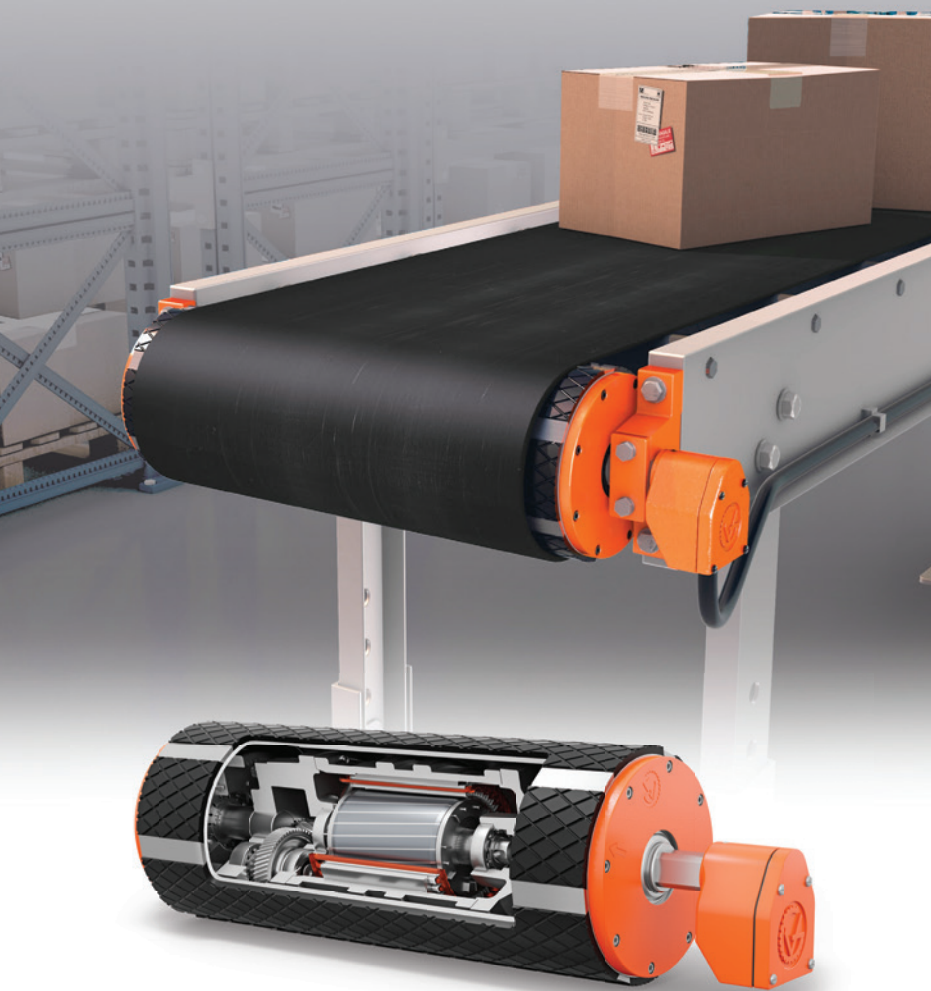
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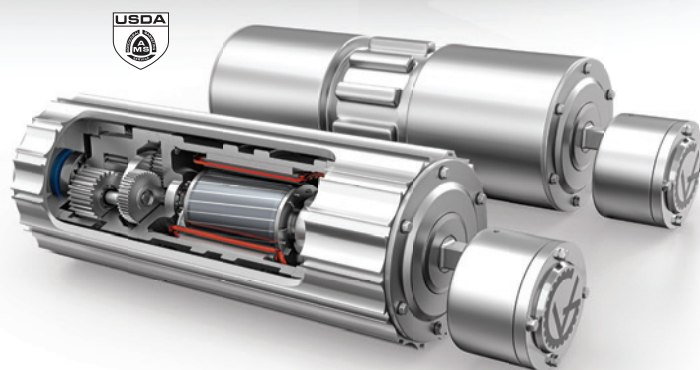
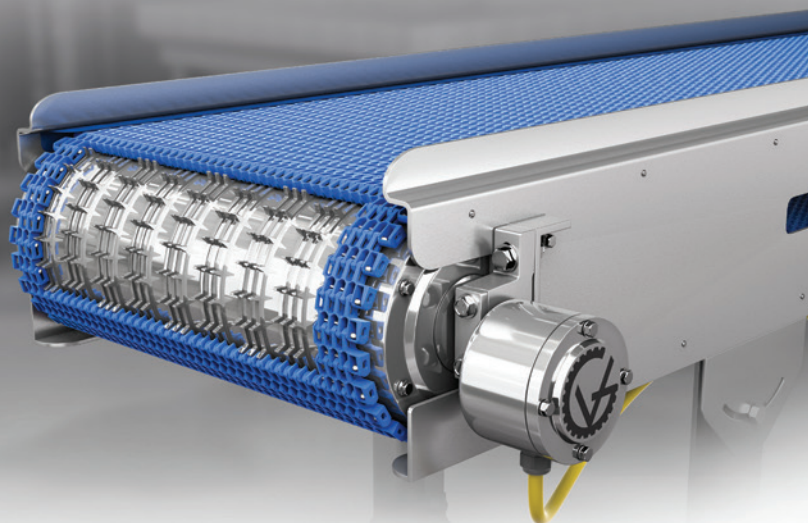


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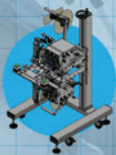
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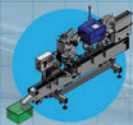
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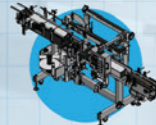
Break-Away
Tamp Systems



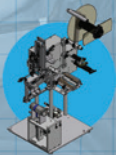
Indexing Roller
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Split Belt
Systems



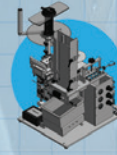
Vacuum Belt
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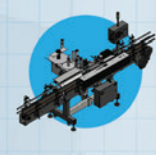
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Four Days in October, Four Years in the Making

Welcome back to the biggest packaging event in the world this year, PACK EXPO International. Joe and I both live here in Chicago, so we've been waiting for you since we saw you here last, way back in 2018. But we're not the only ones who have been waiting for you—well over 2,100 exhibitors have had these four days circled on the calendar for going on four years.

Now, none of this is to say that we at PMMI and PMMI Media Group have been just biding our time during the pandemic disruptions. The media group pivoted to create a digital show, PACK EXPO Connects, during the height of the pandemic in 2020 when in-person events were restricted. After the advent of COVID-19 vaccines, PMMI's PACK EXPO Las Vegas 2021 was not only a "go," it was an energized release of pent-up engagement. And earlier this year, PACK EXPO East attracted a targeted, qualified regional crowd in Philadelphia.

Even so, the overwhelming sense is that *this* is the big one; it has all been building up to Chicago in 2022, the flagship event. Four years' worth of innovation, technology, and R&D are finally ready for prime time on the biggest of stages in packaging, over four days in October.

With that in mind, PMMI has pulled out all the stops to make this the most action-packed event in packaging this year—or likely, ever. Flip over to page 6 to go over an exhaustive list of what's happening at the show. All the usual favorites are back and described in detail in the pages that follow, so allow me to focus on some new features.

Originally scheduled for Chicago 2020, museum-inspired PACK to the Future finally makes its better-late-than-never Chicago debut, after a strong opening salvo last year in Las Vegas. PACK to the Future is a lot of different things at once. It's a historical retrospective of how packaging evolved with society through time, it's an interactive experience with packaging's current challenges, and it's a forward-looking glimpse into the future of our industry via cutting-edge talks at the PACK to the Future stage.

Another new but quickly developing theme at PACK EXPO International 2022 is the recognition of—or more importantly, the connection with—emerging brands. Sure, Mondelēz, P&G, and Coca-Cola will be attending the show in search of faster equipment and more sustainable materials. But what about those who are much earlier in their brand journeys? What about brands that are just starting to scale, are expanding from local to regional, or are just ramping up to go national? Or maybe they're looking to partner in some way with a big brand owner that can take them to the next level? The Emerging Brands Summit on Sunday will give these folks a voice and a platform to interact with suppliers and peers as they ascend the steep brand-launch curve. The all-new PACK MATCH program, with its complimentary consultation, is a variation on the emerging brand theme. Advisors are available for 30-minute virtual consultations to connect attendees with the right suppliers, but spots are limited so check out details on page 7.

Finally, we know you're going to want to enjoy your evenings out to dinner in Chicago after show hours. Joe and I have a certain amount of city pride, and Chicago is a world-class food city, so we rallied the Chicago-area PMG troops to provide some insider and local restaurant recommendations. Find those on page 37, in a section sponsored by Nercon. One somewhat eerie question we had to ask ourselves when we set about to compile a restaurant list was, whether all of our favorite spots had survived the pandemic. We were relieved to find that all of them are still going strong and just waiting for you to make a reservation during PACK EXPO International. So are thousands of exhibitors with packaging tech that will help you grow your business.

Looking forward to seeing you there. **PW**



Joseph Angel
President/Publisher




Matt Reynolds
Editor



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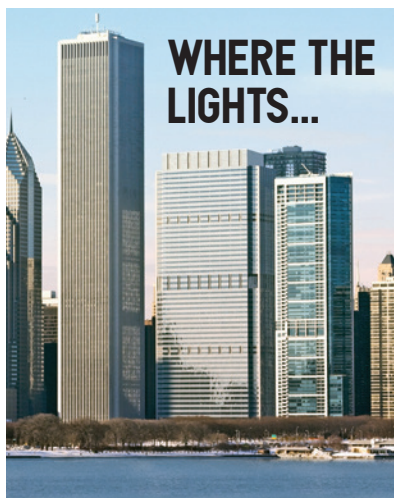


SHOWCASE

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SEPTEMBER 2022 ■ SPECIAL ISSUE

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LIGHTS...**



**...SHINE THE
BRIGHTEST**

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Previewing the most action-packed PACK EXPO to date.

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PMG's Chicago Foodie Guidebook

Chicago has some of the best multicultural cuisine in the country. The PMMI Media Group team is here to help you navigate this culinary playground.

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approved for food contact.



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PACK EXPO INTERNATIONAL

Returns with More Features than Ever Before

See an unmatched breadth of new technologies up close and in person.

IT IS MORE IMPORTANT THAN EVER for the packaging and processing industries to reunite for in-person events—and PACK EXPO International (Oct. 23-26, 2022; McCormick Place, Chicago) is the most comprehensive packaging and processing show in the world in 2022. In response to the unprecedented demands on the industry, PACK EXPO International 2022 will offer more features than ever before.

It is vital for the packaging and processing industries to come together and share innovations, connect with colleagues, hear from experts, and see machinery in action—and PACK EXPO International 2022 is the most efficient and effective way to do it all, offering solutions for over 40 vertical markets. No other event this year will showcase entire production line solutions and offer attendees everything needed to compete in a changing marketplace.

Visit www.packexpointernational.com to search suppliers and plan your visit to the show.

New at PACK EXPO International 2022

■ PACK to the Future Exhibit

Go PACK to the Future in an interactive exhibit new to PACK EXPO International. PACK to the Future celebrates the role of packaging and processing through history, and the impact it is poised to have on our future.



This curated exhibit includes historical equipment, materials, and photographs spanning 250 years, journeying through

the evolution of packaging and processing, and highlighting how the industry developed alongside civilization. This exhibit will be in the West Building at Booth W-20001.

EXHIBIT LOCATION/HOURS

OCTOBER 23-26, 2022

**McCormick Place Convention Center
Chicago, Ill.**

9 a.m.-5 p.m. Sunday, Monday, and Tuesday
9 a.m.-3 p.m. Wednesday

Registration pricing: Registration is \$30 until Sept. 30, 2022, after which the price will be \$130. Registration for the PACK gives BACK™ event adds an additional fee.

Why Register? PACK EXPO International registration is a great value and if you plan early, you're guaranteed maximum ROI. Your badge gives you access to:

- More packaging and processing solutions suppliers than any other event this year
- Free educational sessions at Innovation Stages, The Forum, the Reusable Packaging Learning Center, and the new Industry Speaks Stage
- Special exhibits such as PACK to the Future, an interactive exhibit celebrating the role of packaging and processing through history and into the future—including forward-thinking presentations from industry thought leaders
- Networking on the show floor and select events, including PACK gives BACK™, the Emerging Leaders reception, the Packaging and Processing Women's Leadership Network breakfast, and more

To enjoy contactless entry onsite, U.S. attendees must register by October 7 and international attendees by September 30 receive your badge in the mail prior to the show. If you register after these deadlines, you will need to pick up your badge in Chicago.

Please note: No one under the age of 14 is permitted on the show floor.

The **PACK to the Future Stage** will provide thought-provoking sessions on groundbreaking industry advancements and features free presentations by industry experts on advances in pharmaceutical and cannabis packaging, wireless factory automation, sustainable alternatives, smart packaging, artificial intelligence, and more. The PACK to the Future stage will be in the West Building at Booth W-20025. Visit pwgo.to/7681 for more information.

■ The Processing Zone & Innovation Stage

It's back and better than ever! The Processing Zone returns to PACK EXPO International in 2022 with the widest variety of food and beverage processing equipment. In today's manufacturing environment, processing and packaging are integrated systems, making it critical to bring both solutions under one roof. Start your search for front-of-the-line solutions such as homogenizing, heat treating, forming/sizing, and coating in The Processing Zone.



Attendees will discover solutions to increase efficiency, achieve total system integration, and ensure safety. Visit The Processing Zone in the Lakeside Center at PACK EXPO International 2022. The Processing Zone will be located at Booths LU-7000 to LU-7799.

New in 2022, the **Processing Innovation Stage** (Booth LU-7130), will focus on the latest food and beverage processing breakthroughs. Conveniently located in the Processing Zone, no additional registration is required for attendees to take a break from the show floor and learn something new. Visit pwgo.to/7682 for more information.

■ PACK Match at PACK EXPO International

This complimentary consultation makes its PACK EXPO International debut, providing attendees personalized, one-on-one



guidance to locate targeted solutions. Whether an emerging brand or a well-established household name, PACK Match Advisors are available

for 30-minute virtual consultations to connect attendees with the right suppliers. Attendees complete an online form to indicate their challenges and ensure they are matched with the appropriate industry expert to use the service. Once the match is made, attendees schedule a virtual meeting with their assigned PACK Match Advisor to receive non-biased guidance and recommended exhibitors to suit their business needs. Meetings will begin approximately three weeks prior to the show. *Assigned on a first come-first serve basis; meeting spots are limited.*

Visit pwgo.to/7683 to register.

■ PACK Challenge

PACK Challenge, a brand-new packaging competition at PACK EXPO International, sponsored by PepsiCo, brings six high



school teams together for a head-to-head machine-building competition. PMMI will provide a

build-to-print snack filler machine kit, designed specifically for this competition, along with an assembly (flight manual) to the qualifying teams. Each team will assemble the snack filler to the specifications at PACK EXPO International, and have the flexibility to be creative with add-ons.

The winning school will be awarded \$6,000 for overall Best in Show, with an additional three categories to compete in: Filler Performance Gold Cup; Engineering Method/Most Innovative Filler Design, and Marketing/Sales. Afterward, the teams will take the machines back to their schools, providing future students the opportunity for hands-on experience.

Visit pwgo.to/7684 for more information.

■ Industry Meets

The Industry Meets at PACK EXPO with targeted mini-industry events hosted



by a record number of association partners as part of the Partner Plus Program. In addition, Association Partner thought leaders will present the latest industry trends on the Industry Speaks stage throughout the show.

At the **Industry Speaks Stage**, you can hear from experts in the PACK EXPO Partner Program covering multiple industry verticals as they address the latest hot-button topics and industry trends, such as sustainability, remote access, supply chain solutions, augmented reality, operational efficiency, and more. The Industry Speaks stage will be located within the Association Partner Pavilion at Booth N-4565.



Brand New Pavilions at PACK EXPO International

■ The Healthcare Packaging Pavilion

Same Life Sciences focus, new format. The name is the only thing that's changed about this



gathering ground for life science industries. Life sciences is an important focus for PACK EXPO International, and now this key market segment is positioned as it should be—as an integral part of PMMI's flagship show. This “show within a show” in the West Building will house innovations for pharmaceuticals, biopharmaceuticals, nutraceuticals, and medical devices. Located in the West Building at Booths W-13000 to W-20099. Visit pwgo.to/7685 for more information.

■ The Logistics Pavilion

New for 2022! Logistics represent a crucial part of the product journey from manufacturer to consumer—and they're among the top five searches on the PACK EXPO website. With the boom in e-commerce, The Logistics Pavilion will be the place to find targeted solutions related to the supply chain, including warehousing, fulfillment, distribution logistics services, and transportation providers. Located in the North Building. Visit pwgo.to/7686 for more information.



Free Show Floor Education

■ The Forum at PACK EXPO

Take advantage of free, unique, interactive learning sessions throughout PACK EXPO International. The Forum at PACK EXPO will feature 45-minute sessions, open to all attendees, on the latest industry trends. Sessions will be interactive, including activities, small group discussions, and Q&A sessions. Located in the North Hall at Booth N-4543. Visit pwgo.to/7687 or browse the schedule to the right.



■ The Innovation Stages

On the show floor, the three Innovation Stages present free 30-minute seminars on breakthrough technologies and techniques focused on a wide range of industry-specific solutions. Innovation stages are located in the North Hall at Booths N-4560, N-4580, and N-4585. Visit pwgo.to/7688 for more information. Browse the Innovation Stages schedule on page 152.



• See also the **Processing Innovation Stage**, the **PACK to the Future Stage**, and **Industry Speaks Stage** mentioned previously. These are all free to attendees and conveniently located on the show floor.

THE FORUM SCHEDULE 45-MINUTE SESSIONS

SUNDAY, OCTOBER 23

1:30 PM

Will Your Employees Prevent, or Cause a Cyber Attack?

Ben Spencer - IT Manager, PMMI

2:30 PM

Troubleshooting Roadblocks on the Road to Sustainability Success

Stephen M. Perry, Ph.D. - Partner and Coach, FSO Institute - The Manufacturing Health People

3:30 PM

The Future of Manufacturing: Accelerated Digital Transformation

Spencer Cramer - Founder and CEO of ei3; OMAC Board Member

MONDAY, OCTOBER 24

10:30 AM

Accelerating Packaging Sustainability While Enhancing Desirability

Courtney Lorenz - Sr. Director, Global Environmental Sustainability, SGK
Hope Massey - Director, Consulting Americas, SGK

11:30 AM

Mitigating Unplanned Downtime to Increase Profitability

Michael Warren - Founder and Chief Operating Officer, AsInt, Inc.

1:30 PM

Understanding, Assessing, and Mitigating Cyber Risk in an Industrial Environment

George Forrester - Partner, AHT Insurance, a Baldwin Risk Partner
Michael Carr - Head of Risk Engineering, North America & Canada, Coalition, Inc.

2:30 PM

Robots and Cobots, An Automated Future

Donna Ritson - President, DDR Communications LLC

3:30 PM

Post-COVID-19 Packaging Design Trends

Soha Atallah - Vice President, World Packaging Organization (WPO)

TUESDAY, OCTOBER 25

10:30 AM

How are Emerging Brands Engaging with CoMans/CoPacks to Maximize their Profits and Accelerate Time to Market?

Ron Puvak - Executive Director, Contract Packaging Association

11:30 AM

The Challenges Facing Global Sustainable Packaging

Prof. Pierre Pienaar - President, World Packaging Organization (WPO)

1:30 PM

The Evolution of Automation

Jonathan Pipe - Senior Consulting Analyst, Interact Analysis
Adrian Lloyd - Research Director, Interact Analysis

2:30 PM

Cyber Attacks: Responding to a Breach

Andy Lomasky - Director of IT, PMMI

3:30 PM

The Six Traits of Highly Successful Emerging Brand/Contract Manufacturing Relationships

Carl Melville - President, Melville Group, on behalf of Contract Packaging Association

WEDNESDAY, OCTOBER 26

10:30 AM

Driving Packaging Line Performance

Ron MacDonald - Chairman at the Organization for Machine Automation and Control (OMAC) and Senior Principal Engineer at Nestlé Purina Research, OMAC.org, and Nestlé Purina Research

11:30 AM

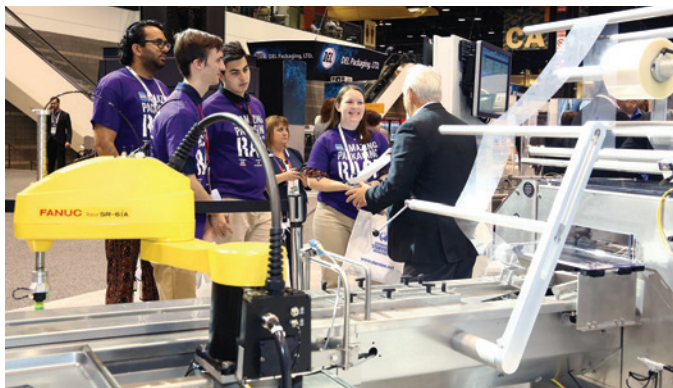
Cybersecurity and the IT/OT Gap

Daniel Maeyaert - VP of Manufacturing Operations, Fallas Automation

Student Opportunities

PACK EXPO International offers programs and activities aimed at getting students excited about careers in packaging.

- **Future Innovators Robotics Showcase**—See Chicago-area high school robotics teams showcase their design, engineering, and troubleshooting skills. Located in the North Hall at Booth W-21028. Visit pwgo.to/7689 for more information.



- **The Amazing Packaging Race**—In this fun and educational event taking place the last day of the show (Wednesday, Oct. 26), teams from colleges and universities in North America race around the PACK EXPO International show floor to complete tasks at the Booths of participating exhibitors. Sponsored by Emerson. Visit pwgo.to/7690 for more information.

- **CareerLink @ PACK EXPO**—CareerLink, PMMI's online job board, is going live at the show. This is an opportunity for PMMI

WORKFORCE DEVELOPMENT:



PMMI U is offering popular training workshops in Chicago to coincide with PACK EXPO International.

- **Risk Assessment Workshop:** October 21-22, 2022
- **Certified Trainer Workshop:** Oct. 23-24, 2022
- **Fundamentals of Field Service:** Oct. 23-24, 2022

Visit pwgo.to/7692 to register for PMMI U and login to browse and register for these workshops.

members and CPA, OMAC, and IoPP member companies to meet with students and veterans pursuing careers in packaging and processing during one-on-one informational interviews to take place at the show. Visit pwgo.to/7691 to register today.

Returning Pavilions at the show:

■ The PACKage Printing Pavilion

This exciting area in the South Building features digital printing and converting, labeling, and coding and marking technologies.

■ The Containers and Materials Pavilion

Big trends such as sustainability, recyclability, e-commerce, and consumer convenience have loomed large in recent years in this pavilion. Located in the West Building, it is a prime destination for companies looking to refresh a brand, launch new products, broaden appeal, and attract attention.

PACKAGING & PROCESSING WOMEN'S LEADERSHIP NETWORK (PPWLN) NETWORKING EVENT

PPWLN serves to recruit, retain, and advance women's careers in packaging and processing. Each PACK EXPO, the PPWLN hosts a networking event addressing a timely issue facing women in the industry.

The annual Packaging & Processing Women's Leadership Network (PPWLN) breakfast at PACK EXPO International will take place on Tuesday, Oct. 25, 7:30 to 9:00 a.m., in Room S-100 at McCormick Place. Hear from keynote speaker Dawn Hudson, former Chief Marketing Officer at the National Football League and former President and CEO of Pepsi Cola North America, who has led an impressive career spanning high-level posts in media, retail, consumer goods, consulting, and health-care at some of the biggest corporations in the world.

Drawing on her own diverse experiences, Hudson shares winning business strategies for women, including clean communication, emotional intelligence, leadership techniques, and tips for elevating your networking and negotiation game. Visit pwgo.to/7693 to RSVP for the breakfast.

This year, the PPWLN networking event is sponsored



by: Emerson, ID Technology, Morrison Container Handling Solutions, Plexpack Corp., Septimatech Group Inc., and SMC Corporation of America. For more information on the network, visit pmmi.org/ppwln.

■ The Showcase of Packaging Innovations® Sponsored by WestRock

Located in the West Building, The Showcase of Packaging Innovations (Booth W-20052) features winning entries from world-wide packaging competitions. The Showcase is sponsored by WestRock (Booth S-2130).

■ The Confectionery Pavilion

Home to the latest trends and technologies relating to aeration, batch refining, shaping, cluster production, and more. Located in the South Building (Booths S-2284 to S-2895) and sponsored by the National Confectioner's Association (NCA).

Located within the Confectionery Pavilion, PACK EXPO International attendees can network with peers, gain specialized insights, and rest their feet at the **Candy Bar Lounge**, hosted by

The National Confectioners Association (NCA), and sponsored by Syntegon Packaging Technology, LLC. The lounge offers a place for casual networking and idea sharing. Located within the Confectionery Pavilion in the South Building.

■ The Reusable Packaging Pavilion

This pavilion, sponsored by the Reusable Packaging Association, showcases sustainable packaging solutions to help reduce waste, cut costs, and gain supply chain efficiency. Explore reusable transport packaging products and services and see innovative reuse solutions from over 30 exhibitors. Located in Upper Lakeside at Booths LU-6700 to LU-6999.



TECHNOLOGY EXCELLENCE AWARD FINALISTS: YOUR VOTE COUNTS!



The Technology Excellence Awards are back at PACK EXPO International 2022, and we need your help to select winners. The awards recognize exhibitors' innovative technology they have developed that has not previously been shown in the PACK EXPO family of events.

Voting will take place live starting when the show opens, on Sunday, October 23 at 9 a.m. It remains open through 12 noon on Tuesday, October 25. There are three ways to vote—in person, on the official show mobile app brought to you by ProMach (see page 148), or online (visit pwgo.to/7703) during the open voting time window. The winner of each category will be announced via a press release on Tuesday at the show.

The Technology Excellence Awards 2022 Finalists are as follows:

General Packaging & Processing Finalists

- **Amcor Clear Anti-Grease Jerky Pouch.** This clear anti-grease film lets beef jerky and other meat snacks power up shelf appeal. Amcor Flexibles North America, Booth S-3705
- **Forvara® Foodservice Films.** Forvara, a PE-based alternative, non-PVC foodservice film emulates vital characteristics of PVC film. Specialty Polyfilms (India) Pvt. Ltd, Booth W-27008
- **IMA Ilapak Vegatronic 6400.** Hygiene, accessibility, and efficiency differentiate the IMA Ilapak Vegatronic 6400 continuous motion vertical bagger. IMA S.p.A., Booth S-2514

Personal Care & Pharmaceutical Finalists

- **CueSee® Mix/Dual-Chambered Device.** This is a unique, patented packaging format for the In Vitro Diagnostics (IVD), pharmaceutical, and cosmetic markets. Eurotrol, Booth W-13027
- **Amcor High-Barrier PCR Pouchstock.** High-barrier pouchstock contains up to 30% post-consumer recycled (PCR) content. Amcor Healthcare Packaging, Booth W-16031
- **Highest speed, vibration insensitive, compact capsule weight checker.** A single channel can handle 50,000 capsules/hour in a compact, stackable form factor. WORK Microwave GmbH, Booth W-20038

Food & Beverage Finalists

- **Maxpack 2023 MFT 7 Ultimate Range.** Company says this is the most versatile, rugged, and beautifully designed vertical f/f/s it has ever built. Maxpack Machinery LLC, Booth S-2396
- **Proxima Tethered Closure.** Enhances closure recyclability for cold fill and aseptic applications, including still water and functional drink. Berry Global, Inc., Booth N-4727
- **Schoeller Allibert Corona 20-pocket beer crate.** This highly sustainable beer crate, used by Anheuser-Busch InBev, is made from reground HDPE, consisting of 91% recycled plastic. Schoeller Allibert, Booth LU-6820

Sustainability

- **ClipCombo™.** Equipment runs two different paper-based multipack styles on the same machine, with rapid changeovers and high speeds. Graphic Packaging International, Booth S-1730
- **Recycle-Ready Chevron Pouches.** This recycle-ready medical device pouch consists of a PE-based laminate paired with uncoated Tyvek®. Amcor Healthcare Packaging, Booth W-16031
- **Wave 2-cc dispenser.** This recyclable lock-up atmospheric dispenser is a more sustainable version of a popular personal care product pump format. Berry Global, Inc., Booth N-4727

■ PMMI U Workforce Development Pavilion

Located in the West Hall Concourse, this is PACK EXPO International's one-stop-shop for resources to strengthen your current workforce and grow your existing workforce. Learn about PMMI U offerings, including popular training workshops. Schools will present mechatronics, packaging and processing offerings, and you can meet students interested in careers in the industry.

■ Association Partner Pavilion

This pavilion houses leading associations dedicated to advancing the packaging and processing industry, offering significant resources, insights, and expertise all in one central location within the North Hall at Booths N-4510 to N-5101.

Visit pwgo.to/7701 for more information on any of these returning pavilions.

Band Styx Headlines PACK gives BACK



PACK EXPO's annual event, PACK gives BACK™, returns to PACK EXPO International bigger and better than ever! For the first time in its Chicago history, the event will be a musical performance, with headlining band Styx taking center stage at McCormick Place.

Guests will enjoy pre-show networking

with refreshments and appetizers followed by a performance by the multi-megamillion-selling rock band. Styx draws from over four decades of barn-burning chart hits, joyous singalongs, and hard-driving deep cuts, such as, Renegade, Come Sail Away, Lady, Blue Collar Man, Too Much Time On My Hands, Mr. Roboto, Fooling Yourself, and The Grand Illusion. Tickets are \$95 each (or buy nine and get the tenth free). Take advantage of the 10 tickets-for-the-price-of-nine deal to treat customers or business

EMERGING BRANDS SUMMIT

The Emerging Brands Summit, brought to you by PMMI Media Group, will launch at PACK EXPO International 2022 as a one-day event featuring educational content and tabletop exhibits. This new program is aimed at founders and leaders of startup manufacturing companies looking to scale their brand to larger production through either in-house facility build-out, or outsourced relationships with contract manufacturers and packagers. Exhibitors will include packaging machinery, packaging materials, processing equipment, and contract manufacturing and packaging. The Emerging Brands Summit will occur on Sunday, October 23, 2022, from 8:45 a.m. to 5:30 p.m., at McCormick Place, Chicago, Room S-100. Visit pwgo.to/7699 to learn more.



partners to the show. The event is sponsored by Rockwell Automation and proceeds benefit PMMI Foundation. Visit pwgo.to/7695 to buy tickets and for more information.

The PMMI Foundation provides financial support for packaging and processing education throughout the U.S and Canada. Since its inception in 1998, the PMMI Foundation has given more than \$2.3 million to strengthen the workforce within the packaging and processing industry.

PLAN AHEAD, DOWNLOAD THE PACK EXPO INTERNATIONAL MOBILE APP

Download the PACK EXPO International Mobile App, sponsored by ProMach, to your smartphone in advance of the show to start developing your show plans.

- Free to download and use
- Search exhibitors, products, and sessions
- Create and save a personal agenda
- Use an interactive mapping tool
- Engage with My Show Planner (below)

MY SHOW PLANNER

Attendees should also visit www.packexpointernational.com where they can view floor plans, search exhibitors by keyword or product category, schedule meetings in advance with exhibitors, and more. To keep track of all the new additions as well as old favorites, attendees can use

My Show Planner to check the schedule of booth activities, add itinerary sessions, and plan routes around the show floor.



Young Professional's Networking Event

The Emerging Leaders Network will host an evening event for young professionals, sponsored by Beckhoff Automation LLC at Punch Bowl Social in downtown Chicago. Visit pwgo.to/7696 to register for the networking event now.

PACK EXPO Green

The PACK EXPO Green Program is the commitment of PACK EXPO and all its partners, vendors, and exhibitors working together to create a more sustainable world. Find information and resources to aid and advance your company's unique sustainability goals. Visit pwgo.to/7698 to learn more about the Green Program.

Reusable Packaging Learning Center

Learn the latest trends and benefits of reusable packaging in the Lakeside Upper Building, Booth LU-6737. Discover how implementing a reusable packaging system can improve material handling performance, reduce operating costs, create new economic values, and lower environmental impacts in your supply chain.

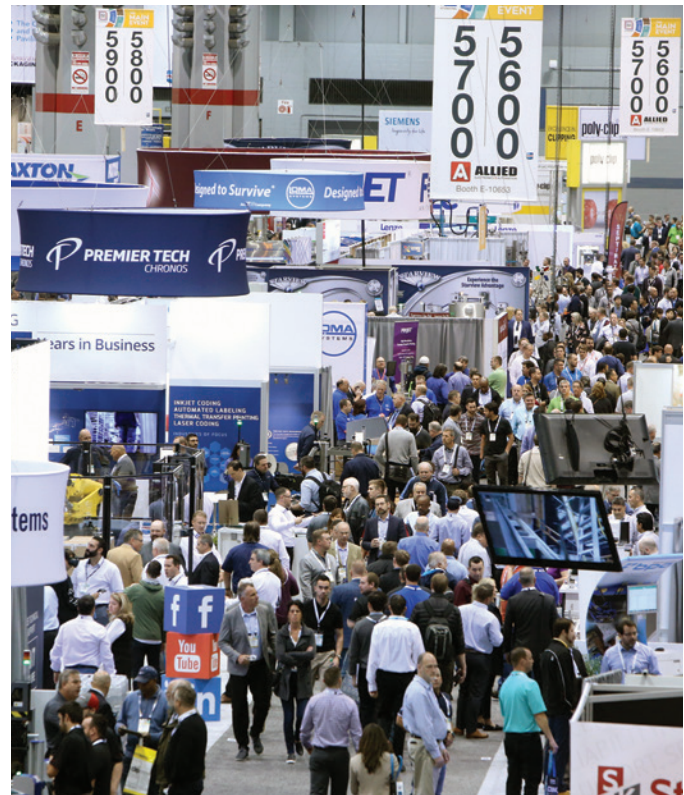
The Industry Meets at PACK EXPO

Industry Meets brings together industry partners and their audiences as they host their meetings, conferences, and receptions in conjunction with PACK EXPO International. We are currently welcoming the following groups with more joining the line-up each week:

- 3-A's Hygienic Equipment Design Meeting
- Active & Intelligent Packaging Industry Association/ Packaging Europe's Smart Packaging Event
- Chicagoland Food & Beverage Network's Reception
- Contract Packaging Association's Meet & Greet Reception
- Cold Pressure Council Annual Conference
- Institute of Packaging Professionals' Medical Device Packaging Class
- International Bottled Water Association's Annual Business Conference
- Flexible Packaging Association's Emerging Leadership Council & Reception
- MHI Seminar and Reception
- National Fluid Power Association's Fluid Power Forum
- The Organization for Machine Automation and Control's Meeting
- Visit pwgo.to/7697 to learn more about Industry Meets

Just Can't Attend In Person? Attend Online!

For those who are unable to attend PACK EXPO International in person, limited aspects of the live event will be available online. Registration for PACK EXPO Xpress is \$30 (if you register by September 30) and gives you:

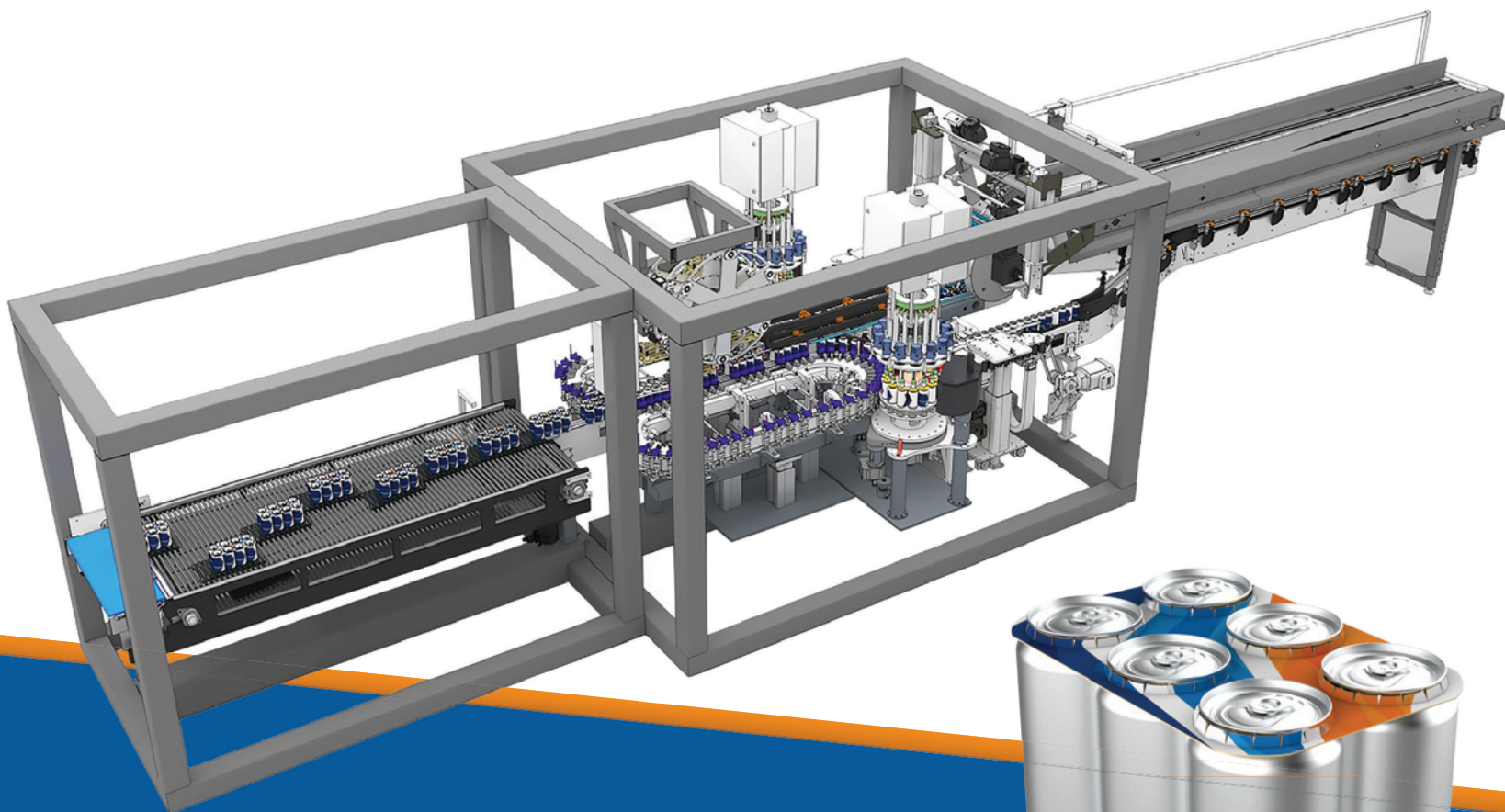


- Access to create a personalized schedule via My Show Planner
- Ability to search products and exhibitors, including matchmaking capabilities and opportunities to connect with exhibitors in their on-line showrooms
- On-demand access to some educational content during and after the show
- You also have the ability to upgrade your registration to attend in-person for no additional fee if you register by September 30. Upgrades to in person attendance after September 30 will cost \$130
- Visit pwgo.to/7700 to register for PACK EXPO Xpress



If you're able to upgrade your Xpress registration to in-person, you'll be happy you did. New technologies, solutions, and education addressing the changing landscape of packaging and processing will be on display. No other event in 2022 will bring together a more comprehensive gathering of suppliers offering new products, technologies, and solutions. It's where executives and plant managers, engineers, brand managers, and packaging designers come to see machinery in action, connect with suppliers, network, and gain the latest perspective on a plethora of industries in over 40 vertical markets.

To learn more and to register, visit www.packexpointernational.com. Registration for the show is \$30 until Sept. 30, after which it increases to \$130. **PW**



SCALABLE SUSTAINABILITY

For sustainable beverage packaging at speed and scale, WestRock's integrated solution of fiber-based CanCollar® glue-free paperboard designs and flexible CanCollar Fortuna® machinery eliminates plastic waste from your value chain.

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INNOVATION STAGE

The Innovation Stages at PACK EXPO International bring you the latest advances taking place across the industry. Check out these 30-minute sessions to discover coming trends and technologies that need to be on your team's radar.

Schedule as of August 24th, 2022

SUNDAY, OCTOBER 23, 2022

12:00 PM	Baking Sustainability into Your Operations	Schneider Electric
	Digital Double Life: The Intersection of Tech & Business	Specright
	The Future of Recycled Food Packaging and Closing the Loop	Klöckner Pentaplast
1:00 PM	Get More From Your Machine using the Data You Already Have	Rockwell Automation
	How E-commerce Packaging Trends Can Support Sustainability	Felins, Inc.
	Intell-I-Mag® The Revolutionary Intelligent Magnet	MPI
2:00 PM	Broadening the Pipeline of the Industry/Academic Partnership	Michigan State University
	Complete Automation Solutions to Enhance Line Flexibility	Bosch Rexroth Corporation
	Power Your Performance: Integrated Solutions by Design	Honeywell Intelligrated
3:00 PM	Rethink Responsibly	TekniPlex
	Taking Action: A Packaging Roadmap for the Circular Economy	DASSAULT SYSTEMES

MONDAY, OCTOBER 24, 2022

10:00 AM	Intelligent Plastic for the 21st Century	Smart Plastic Technologies
	Looking Beyond XR, and Getting Back to Reality	Rockwell Automation
	The Path to Becoming a Green Smart Factory	Schneider Electric
11:00 AM	Minimize Supply Chain Disruptions with Innovative Technologies	Acumatica
	Recycle-Friendly Washable Inks for Plastic Packaging	Sun Chemical
	Scaling Sustainable Packaging with Automation	WestRock
12:00 PM	Low-Carbon Muffins with GreenStruxure & Bimbo Bakeries	Schneider Electric
	Remote HMI Mirroring: Handling Workforce Shortage Visibility	Belden Corp
	Sustainability in Pharmaceutical Primary Packaging	Liveo Research
1:00 PM	Enable Recyclable Packaging with Open Sesame® Tear Tapes	H.B. Fuller
	How to Add Automation at No Upfront Cost	Formic
	Tackling Packaging Challenges and Pressures	Fresh-Lock by Presto
2:00 PM	Achieving More Together for a Sustainable Future	Berry Global
	AI-based Robotic Grasping	Siemens Industry Software, Inc
	Streamline Your Package Labeling Process	Epson America, Inc.
3:00 PM	Case Study: Advancing Sustainability in a Changing World	Amcort Flexibles North America
	The Joy of the Physical in the Digital Age	Sappi North America
	The Value of Digital Transformation	Matrix Technologies, Inc.

TUESDAY, OCTOBER 25, 2022

10:00 AM	Buzzword Hangover	Brightly Software
	How to Automate Paper-Based Packaging Solutions	Graphic Packaging International
	Mechatronic Case Packing Transforms Frozen Food Production	Beckhoff Automation, Brenton (a ProMach company)
11:00 AM	3D Vision, Soft Gripper and AI Automation Solution	Soft Robotics Inc.
	Closing the Loop	Cabka North America Inc
12:00 PM	Reduce Waste & Increase Efficiency in Clean-in-Place Process	Emerson
	Thinking ABOUT the Box	Packsize
1:00 PM	Building your cyber resilience program	Rockwell Automation
	Combat Labor Issues with Flexible Robotic Automation	Mitsubishi Electric Automation
	Is the world ready for sustainable packaging?	Industrial Physics
2:00 PM	Re-Invent Supply Chain Inspection with 3D mmWave Imaging	ThruWave Inc.
	Shelf-Ready Labeling That Marketing/Operations Can Agree On	Felins, Inc.
	Using Supply Chain Traceability to Combat Counterfeiting	Antares Vision Group
3:00 PM	Addressing Convenience Trend with Retort Pouches	H.B. Fuller
	Simplifying the Complexities of Labelling and Artwork in the Pharma Industry	Esko Brand Solutions
	Success for Vision Systems Deep Learning Implementation	Verista

WEDNESDAY, OCTOBER 26, 2022

10:00 AM	Cybersecurity Best Practices in a Connected IIoT World	Schneider Electric
	Pests to Watch Out for as Moisture Levels Fluctuate	Orkin
	The Rise of Software as a Service	Rockwell Automation
11:00 AM	Leak Testing for Micro-Organisms in Medical/Pharma Packaging	INFICON
	OxyStar - The First Recyclable Barrier Material	Placon
	Recyclable and Recycle-Ready Packaging for the Dairy Market	Arcor Rigid Packaging
12:00 PM	Fresh Food To-Go and the Circular Economy	ProAmpac
	Pick and Place Reinvented	Syntegon Packaging Technology
	Smart Sensors: The Backbone of Digital Transformation	SICK



Schedule as of August 24th, 2022

SUNDAY, OCTOBER 23, 2022

12:00 PM	Electric Actuator Beats Pneumatic—Price, Speed, and Life	SMAC Moving Coil Actuators
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MONDAY, OCTOBER 24, 2022

10:00 AM	Efficient COP Using New, Advanced 3-A Cabinet Washers	Sani-Matic
11:00 AM	Food Safe Facility Drainage Design	FoodSafe Drains
12:00 PM	Smart Tablet Coating Technology	Romaco Group
1:00 PM	MasterBio - All Compostable Materials for Fresh Products!	MASTERPACK SPA
2:00 PM	Trends in High Pressure Processing (HPP)	JBT - Avure HPP
3:00 PM	Evolution Fresh – HPP Beverage Automation Advancements	Hiperbaric

TUESDAY, OCTOBER 25, 2022

10:00 AM	Enteral Feeding – Direct Connect Nutrition Delivery	Vonco
11:00 AM	Innovative Solutions Create R&D Partnerships	Deville Technologies
12:00 PM	Batching and Blending Optimization in the Beverage Industry	Tetra Pak
1:00 PM	Buying a Separator Machine? Avoid These 5 Costly Mistakes	Gerard Daniel Worldwide
2:00 PM	Stick the Landing: Five Product Handling Ideas to Win Processing Gold	POWER Engineer, Inc.

VERTICAL PERSPECTIVES

BROUGHT TO YOU BY:



Baking & Snack

DAIRY PROCESSING

Food Business News

MEAT+POULTRY

Milling & Baking News



It's always interesting to piece together our now-annual Vertical Perspectives section, which appears in every PACK EXPO Showcase issue. My colleague Aaron Hand, editor of *Packaging World's* sister publication *ProFood World*, joins our six editorial counterparts at Sosland, a publisher of food industry media brands, to deliver unique perspectives on food and beverage.

While each vertical market has its own unique set of challenges and opportunities, there are a few common threads that weave their way through the seven columns that follow. The three most mentioned lines of thinking among these depth-plumbing perspectives reference the realities around supply chain, workforce, and automation. Even though they're entirely behind the scenes to the average consumer, these factors provide the framework that underpins the food industry as a whole, acting almost like three legs of a stool. As such, they're interconnected, and when one moves, the other two respond, and vice versa.

There appears to be hope, or at least a glimmer of light at the end of the tunnel, for food producers slogging through the supply chain issues that rocked their industry throughout the pandemic. Expectations are for supply chains to slacken, but the uncertainty remains.

Meanwhile, there's less hope, at least at the moment, for any broad return of cheap and plentiful labor. The so-called Great Resignation continues, as the balance of power shifts even further into the hands of employees over their employers. Scarce labor, a tight job market, and record-low unemployment means the workforce can name their terms, and their price. See more on that on page 24, where the recent IoPP Salary Survey data illustrates this new workforce dynamic.

But if there's anything close to a silver bullet answer to the workforce dilemma, it's automation. There are some areas in food, generally on the processing side, that have for some time been keeping up with automation as a means to defray labor costs and workforce scarcity. But there are specific areas that could benefit greatly from an automation shot in the arm. Among others, opportunity in automation is particularly evident in the dairy industry, according to Kristen Putch, Managing Editor of *Dairy Processing*, on page 19, and in packaging operations at small to midsized food-producing facilities, according to Charlotte Atchley, Editor of *Baking & Snack* on page 18.

Automation relies on supply chains that are still reeling from the pandemic, and long lead times can be seen as a deterrent to taking the plunge. But operations with the most aged equipment are those with the most to gain. Automation is almost an imperative to even the most hesitant companies, as operations with access to actionable data continue to improve their margins and widen the gap over their automation laggard peers.

Clearly, supply chain, workforce, and automation are the leading actors on the food and beverage stage right now, and the following Vertical Perspectives will provide unique insights in how they relate to one another. —Matt Reynolds, Chief Editor, *Packaging World*

Supply Chain Issues Continue to Impact Food and Beverage Producers

It's been interesting to watch attitudes and expectations take shape and evolve over the past couple years. In 2020, an awful lot of short-term thinking prevailed. As restaurants and other businesses went into lockdown, the view was toward surviving the hardship until things could get back to normal. Maybe things could get back on track by the summer. If not, maybe by the end of the year.

The food and beverage industry was able to get a handle on some of those issues during the pandemic. The supply chain, which had quickly shown its weaknesses when COVID-19 first hit, began to fall back into line. The empty shelves began to refill. Producers adjusted their production standards, easing back on proliferating SKUs. They also adjusted their production lines to better protect their workers, installing barriers and distancing staff members. Manufacturers and consumers alike adapted to a new normal.

This year, that new normal has continued to struggle with supply chain issues, however. It seems that every problem these days is attributed to the supply chain—a shrug of the shoulders followed by, “Well, you know, supply chain.” For manufacturers, those same supply chain issues—ships stuck in ports, a lack of manpower to build or unload supplies—has made it difficult to get the equipment needed to keep up with often skyrocketing demand.

But the supply chain issues brought on by the pandemic have only worsened this year. The Russian invasion of Ukraine, begun in February this year, has led to high oil and gas prices, and has also caused a shortage of key food ingredients. Ukraine is the world's fourth largest grain supplier, according to the Food and Agriculture Organization of the United Nations, and supplies more than 40% of the world's sunflower oil. Food producers have moved to reformulate products to make use of other oil types, but of course it's not as easy as coming up with a new recipe to mimic the previous taste. Production, labeling, regulations, and other factors must be reconfigured as well. Brazil, taking advantage of high energy prices, has pushed more of its sugarcane toward ethanol production, leaving food and beverage man-

ufacturers potentially scrambling for sugar supplies as well.

While many ingredients needed to go into food and beverages are in short supply, some of the packaging for the finished goods are as well. Demand for aluminum cans had been growing for years, but the pandemic put an even greater stress on supply as consumers drank more at home instead of at bars or restaurants. The low availability of aluminum extends the shortage to canned foods. Glass bottles have also been in short supply.

Labor issues relate to all of these supply chain woes as well. Everywhere, employers are struggling to find the workers needed not only to produce goods but also to move and stock those goods. Many people have not gone back to work since COVID hit, concerned about low wages and poor working conditions.

Though many consumers looked at the baby formula shortage earlier this year as yet another fallout of the same old supply chain issues, it was actually largely caused by food safety shortfalls at Abbott Nutrition's baby formula plant in Sturgis, Mich. After reports of infant illnesses and deaths linked to products made at the plant, Abbott recalled several lots from three powdered infant formulas (Similac, Alimentum, and EleCare) in February and the plant was forced to shut down the same month. Through some work with the Food and Drug Administration (FDA), the plant was able to open again in early June.

Though there have been several concerns about how the FDA handled safety issues at Abbott's Sturgis plant, the FDA's ability to regulate food safety issues has increased considerably through the Food Safety Modernization Act (FSMA). Overall, the food industry is doing a better job of controlling hazards, according to Eric Edmunds, food safety director for The Acheson Group (TAG). “The science is improving, and the ability to detect and tie illnesses to actual causes is definitely getting better,” he said for a report written for *ProFood World* earlier this year on a proposed rule for traceability that the FDA plans to roll out this year.

VERTICAL PERSPECTIVES



AARON HAND
Editor-in-Chief
ProFood World

Adopting Automation Out of Necessity

The industrial baking industry has been on an automation kick since the second half of 2020 that has accelerated even into 2022. Initially, it was driven by the substantial increase in capacity needed to meet unprecedented demand for baked goods on supermarket shelves. Today, automation remains top of mind for bakers as they struggle to find enough people to work their production lines.

Sosland Publishing's 2022 State of the Industrial Baking Industry study, conducted by Cypress Research, found that 53% of baking companies of all sizes experienced a lack of sufficient workforce to meet production demands. This has negatively affected business in many ways: 49% reported a negative impact to the timeliness of production, 34% noted they were unable to take on new business, and 58% reported that existing employees have had to work significantly more hours to meet demand.

To address low employment and other issues, U.S. baking companies have largely turned to advancements in technology. Of those surveyed, 61% reported that increasing automation was their plan to address the skills shortage they felt. This is second only to increasing wages. And where do baking companies have the biggest opportunity to automate? For the most part, it's in their packaging departments.

In *Baking & Snack's* "Automating Out of the Baking Industry Labor Challenge" study, also conducted by Cypress Research, 85% of respondents from baking companies reported that eliminating the need for manual labor was an important goal when investing in automation. The survey also broke out the processes bakers could automate and found that the packaging department offered the most opportunity for baking companies to invest. This included automated quality control technology, primary packaging, palletizing, robotics, and product loading and basket handling.

Large baking companies—those with annual sales greater than \$100 million—showed the most interest in packaging technology as many of these businesses have already automated upstream processes such as ingredient handling and product transfers. For small to midsize companies, the packaging process is typically the most manual and packs in the

most workers around a production line.

Survey respondents were asked to rate automated technologies as "currently not using, not planning to purchase," "currently using, not planning to upgrade," "not currently using, planning to purchase," and "currently using, planning to upgrade." Nearly a quarter of the large baking companies reported they weren't using non-robotic primary packaging technology but were interested in using, but 26% were interested in purchasing a complete robotic automated system for primary packaging for the first time. Meanwhile, 20% of these companies were interested in non-robotic palletizing, and 23% and 20% were interested in complete robotic solutions for palletizing and secondary packaging, respectively.

Most notable, though, is that large companies are implementing automated vision inspection, with 40% already using this technology with no plans to upgrade. However, 29% who are currently using this technology are intending to upgrade their system, and 11% who aren't already implementing vision systems are looking to purchase. Only 14% of large baking companies aren't using vision inspection systems and have no plans to purchase, indicating that there is growing emphasis among bakers to invest in digital controls and automate quality control.

Small to midsize baking companies that report less than \$100 million in sales annually are also interested in packaging technology even as they are more focused on front-of-process automation. Even robotics, which the baking industry has been slow to adopt because of upfront costs and a skills gap, seem to have become less intimidated, with 32% of surveyed bakers interested in purchasing a complete robotic system for primary packaging, 22% for robotic secondary packaging, and 24% in robotic palletizing.

As bakers embrace technology out of a desire to reduce reliance on labor, the packaging department represents the last holdout in these facilities. Technology advances have made packaging automation more accessible and cost-effective than ever before. This has created a perfect moment for baking companies to finally start adopting technologies they've been hesitant to in the past, and it's doubtful they'll back off anytime soon.



CHARLOTTE ATCHLEY
Editor
Baking & Snack

Modernizing Can Help Dairy Processors Optimize Operations

The nature of operations in dairy plants has significantly changed over the past few decades. Automation has contributed to increased efficiencies within plants producing dairy products. Industry players, from the farm to the processing plant, are adopting automation to streamline their processes.

Yet dairy remains one of the least automated industries, meaning it has the most to gain by embracing updated technologies. These upgrades will help dairy processing plants overcome challenges more effectively.

Every type of dairy processing requires a unique approach. Although more manual methods still work, they are less reliable and less profitable, according to experts. Failing to modernize could potentially hurt processors.

More companies are shifting toward overhauling old practices with more macro external pressures for the updates taking place. Not only are regulations playing a part, but there is also a push from outside the industry—consumers and other parties want to know more about agricultural supply chains and how they function.

“Dairy processors tend to underinvest in plant automation overall, and it is one of the big improvement opportunities for the industry,” says Chirag Pandya, a partner at business consulting firm McKinsey & Co. While sometimes a return-on-investment perspective can make such automation projects appear unappealing or challenging, he recommends considering the bigger picture. “In my view, some critical automation upgrades are some of the most important strategic projects dairy processors should be undertaking,”

Milk and milk products have been relatively low-margin businesses historically, with limited leverage for processors across most channels, Pandya notes. That’s why plant operations typically become a source of “distinctive strategic advantage,” he adds.

For example, if one processor is making a product at an overall equipment effectiveness (OEE) level of 65 to 70% and another is making the same product at 40 to 50% OEE, the cost structure would hold the sec-

ond company back, Pandya says.

Other risks that accompany choosing not to modernize include extra-long lead times for upgrades and new equipment, as well as 2022’s high inflationary environment. Even strategically critical projects would be delayed or overbudget due to those factors, which could further dampen a processor’s confidence in efficient capital deployment.

Failing to modernize involves an opportunity cost if companies aren’t as efficient in their day-to-day operations as a result.

When it comes to dairy production, one of the key goals for many processors is to operate in a sustainable manner. Delivering safe, high-quality products isn’t just a goal, it’s the expectation. Implementing automation into processing facilities can play a major role in helping to achieve this goal by optimizing processes and reducing waste.

Whether a company is measuring its carbon footprint or utilizing its modernization efforts to back up sustainability claims that appeal to consumers, embracing technological innovations for the industry can be important to brand building, according to Scott Sexton, CEO of Dairy.com by Ever.Ag. He expects a constant drumbeat toward real-time digital transparency in the dairy industry. And while Sexton says he doesn’t know when precisely it will become essential, he feels “strongly convicted” that making modernization investments now will benefit companies in the long run.

“You have to be looking forward and you cannot put your head in the sand and say, ‘We’re just going to keep doing it the way we did,’” he says. “You’ve got to start making investments because I don’t see the environment or the business climate going backwards.”

The most significant risks that come with not modernizing are the possibilities of losing competitive bids, having lower margins than competitors due to a higher cost burden, and—at the extreme end—going out of business as the product portfolio becomes obsolete or value-destroying for the processor.

VERTICAL PERSPECTIVES



KRISTEN PUTCH
Managing Editor
Dairy Processing

Food and Beverage Manufacturers Seeking a New Normal

The past two years have whipsawed food and beverage manufacturers. The rapid COVID-19 global shutdown followed by the brisk pace of markets reopening around the world have led to increased consumer demand and unprecedented supply chain disruptions. Subsequent inflationary pressures brought on by the pandemic and the war between Russia and Ukraine have left many executives wondering what normal might look like in a year.

A defining characteristic of 2022 has been inflation. Food and beverage manufacturers have noted with regularity that their cost of goods has exceeded internal forecasts. Many see such inflationary pressures continuing through the rest of the year but, hopefully, easing as 2023 progresses. “Hopefully” must be used as a qualifier because a new COVID-19 variant or an escalation of the Russia/Ukraine war could lead to additional economic disruption around the world.

Despite the sharp rise in inflation, consumer demand remains robust. Branded manufacturers have noted with some frequency that elasticities remain below historical norms, particularly when compared to the Great Recession. There are some indications consumers are becoming more cost-conscious as some branded companies feel pressure from private label, but many food and beverage CEOs have expressed confidence in their companies weathering current economic conditions.

“Private label is either flat or down in the vast majority of our markets, and shoppers say they are much less likely to switch to private label in chocolate and biscuits compared to other categories,” said Dirk Van de Put, CEO of Mondelez International, during a July conference call to discuss first-half results.

Van de Put’s sentiment was echoed by Diego Gaxiola, CFO of Grupo Bimbo, when he noted in July that the grain-based food manufacturer hadn’t seen consumers trading down and demand remained strong.

Supporting consumer demand has been the health of the American consumers’ pocketbook. COVID-19 stimulus funds combined with higher wages brought on by a tight labor market have allowed many people to continue spending even as inflation has reached a 40-year high. But the strength of consumer spending has been a double-edged sword.

Attracting and retaining employees in the current labor market has been challenging, to say the least, for most employers. Throughout the supply chain, from the fields where crops are harvested to manufacturing plants, through the distribution system and into supermarkets and foodservice outlets, companies are struggling to fully staff operations.

Staffing shortages combined with the supply chain challenges have forced most companies to scale back innovation and focus on keeping customers stocked with the fastest-moving stock-keeping units. At retail, the regular shelf resets retailers initiated in the past have become less frequent. The focus of many retailers has been on keeping shelves stocked and rebuilding inventory. At foodservice, rising prices are forcing operators to rethink menus. Many are more likely to remove items from a menu to better manage costs than add new ones.

Companies have responded to all the macroeconomic issues buffeting the industry by pulling familiar levers like raising prices and improving efficiencies, and by investing in new capabilities like artificial intelligence (AI). The digitization of marketing, operations, purchasing, and supply chain is allowing manufacturers to develop a more granular view of their business and make small but impactful changes. Greater use of AI will not relieve macroeconomic pressures, but it does give manufacturers greater insight and control.

Another blunter tool used by management teams has been the divestment of non-core assets. Mondelez plans to divest its developed market gum and Halls business and TreeHouse Foods has put its Meal Preparation business under review. General Mills has been very busy on this front, divesting its Helper and Suddenly Salad businesses to private equity firm Kelso & Co., and it has divested its European Union Yoplait as well as its European dough businesses.

Terms most often used to describe current food and beverage market conditions include unprecedented and uncertain. Heading into 2023, many forecasts call for supply chains to slacken and inflationary pressures to ease. The new normal might see the unprecedented aspects of the past few years fade and leave operators to continue managing through uncertainty.



KEITH NUNES
Editor
Food Business News

Meat and Poultry Processors Face More Headwinds

The past 12 to 18 months have been a blend of challenges and opportunities for the meat and poultry processing industry, which continues to recover from the volatility related to the global COVID-19 pandemic that dated back to early 2020. In the height of the pandemic that year and into 2021, many processing plants were forced to shut down temporarily, consumers' buying habits turned heavily toward retail, and many restaurant owners either tapered their operations or were forced to close. The pandemic shined a light on the vulnerability of the food supply chain and some of the negative consequences are still lingering today and will likely continue for the foreseeable future.

In more recent months, however, new market challenges have emerged in the wake of some significant recovery from the pandemic among most stakeholders in the meat and poultry processing segment. This past year has seen processors reeling from widespread drought as well as threats posed by resilient animal diseases, including African swine fever and highly pathogenic avian influenza.

Consumers, meanwhile, are suffering from sticker shock as food prices, gas prices, and the overall cost of living have spiraled to historic highs, with many questioning the integrity of the companies supplying goods and services of all kinds.

As *Meat+Poultry* reported this past April, the past two years' economic downturn hasn't gone unnoticed by consumers. Shopping behaviors reflect the ripple effect, according to findings in the 2022 Power of Meat study, which were highlighted in a webinar hosted by the North American Meat Institute and FMI – The Food Industry Association. The study, conducted by Anne-Marie Roerink, president of market research firm 210 Analytics, concluded that consumers are adjusting their meat purchases to ease pressures from inflation and supply chain disruptions, as 38% of shoppers acknowledged seeing more out-of-stocks and 21% said they see less variety. Additionally, 72% of respondents

said they have changed their retail meat purchases.

According to the study, 75% of consumers have noted higher meat and poultry prices and 43% see fewer promotions. In response, 61% said they save money by eating out or ordering in less, and instead try to recreate restaurant experiences at home (62%).

While sales for many meat and poultry companies are up year over year, volumes and margins have suffered as most have been forced to pass their rising costs on to customers and consumers, which is well-documented based on the rising price of retail items and menu prices at foodservice outlets.

According to the Bureau of Labor Statistics (BLS), year-over-year food prices for the 12 months ending April 2022 reflect an increase of nearly 11% compared to the same period in 2021, the biggest jump since 1981. Prices for meat, poultry, eggs, and fish ticked up even more (14.3%) since April of last year, marking the biggest jump in prices in 43 years.

Processors find themselves in a “Don’t shoot the messenger” posture as they are forced to pass along higher prices, including companies like Tyson Foods. In its recent earnings report, Tyson said that in the first nine months of fiscal 2022, it saw feed ingredient costs soar more than \$430 million over the same period the previous year.

Consumers have realized the lack of bang for the buck they are getting for pork and especially beef as of late, causing a trend toward trading down for more affordable options, like chicken. Through the first quarter of 2022, beef prices rose 16% compared to last year while pork increased just over 15% and chicken was up just over 13%, according to BLS.

Executives at poultry companies like Pilgrim's Pride recognize the appeal of poultry during economically challenging times. “Chicken still remains the most affordable, flexible, and available option relative to the other proteins,” said Fabio Sandri, Pilgrim's CEO, commenting on the company's 2022 first-quarter performance.

VERTICAL PERSPECTIVES



JOEL CREWS
Editor
Meat+Poultry

Bakers Navigate Inflation While Satisfying Specialty Demand

Well into the third year of the COVID-19 pandemic, grain-based food companies found themselves contending with the highest cost inflation in a generation, severe labor shortages, and whipsaw fluctuations in the commodities markets, while coping with the reality that year-over-year volume sales of bread and per capita consumption of flour continue to decline.

Bakers successfully raised prices to pass along some of the inflated input costs. As Flowers Foods enjoyed record results in the first quarter of 2022, the company says a price increase in the first quarter helped offset surging commodity costs and accounted for essentially all the sales increases. The company grew market share to a new quarterly record with its fresh packaged sales gaining share on the strength of Nature's Own, Dave's Killer Bread, and Canyon Bakehouse brands.

Of concern to bakers in the past year was the shift away from sliced packaged bread. With bread sales retreating following the pandemic-fueled surge in 2020-21, dollar sales of bread in the 52 weeks ended Feb. 20 were \$9.05 billion, down 2.5% from a year earlier. More unsettling was the decline in unit sales, which in the 52 weeks ended Feb. 20 fell 8.3% to 3.22 billion.

Reflecting the continued erosion of market share commanded by private label bread, new product introductions were heavily centered within companies' premium and super premium brands. For example, Flowers introduced several items in its indulgent line of Nature's Own Perfectly Crafted Brioche Style products.

Grupo Bimbo saw resilient consumer demand in the face of steadily rising prices, perhaps more resilient than expected. "We haven't seen consumers trading down as demand continues to be very strong, and it is reflected in our volume growth," said CFO Diego Gaxiola during a July 21 conference call.

Health and wellness appeared to be a driver for many of Bimbo's new product introductions over the past year.

While bread sales over the past year were down in dollar sales, overall baked food sales were up 5.7%. Several categories enjoyed double-digit gains.

Hostess Brands snack products delivered strong first-quarter results with access to growing snacking occasions lifting sales. "Our sweet baked goods point-of-sale led by the Hostess brand posted its second consecutive quarter of more than 20% growth," says Andrew P. Callahan, president and CEO.

Still, a trend away from flour-based foods was evident in data showing per capita consumption of flour in 2021 fell to 129.2 lb, the lowest level since 1989. Per capita flour consumption has fallen six of the past eight years. The decrease in consumption followed an unusual gain in 2020 of 1.3 lb, to 132.1 lb. Per capita consumption in 2021 was down 1.6 lb from 130.8 lb in 2019, which had been the low-water mark in recent years.

Mondelēz International continued movement into grain-based food segments outside of its historic position in biscuits and crackers, most recently acquiring Clif Bar in June for \$2.9 billion. It was Mondelēz's ninth acquisition since 2018. Other companies acquired include Ricolino, Chipita, Gourmet Food Holdings, Hu, Give and Go, Perfect Snacks, and Tate's Bake Shop.

Following several years of planning, the Grain Foods Foundation terminated its multi-year effort to launch an eight-figure baked foods checkoff program. In the aftermath of the effort, questions have emerged over how the industry will promote and defend grain-based food products in the future. Meanwhile, the Grain Foods Foundation has continued supporting research to demonstrate the role foods containing both enriched flour and whole grains should play in a healthy diet.

It seems a dramatically shifting industry landscape awaits the next leader to be named president of the American Bakers Association (ABA), as Robb MacKie announced in June his intentions to retire at the end of 2022. MacKie, who has held the top position at the ABA since 2006, says he will stay on with the organization for the next several months "to ensure a highly successful International Baking Industry Exposition (IBIE), which ABA co-owns." His successor will become instrumental in determining the outlook for grain-based foods and how the industry reshapes itself in the coming years.



JOSH SOSLAND

Editor
Milling & Baking News

Pet Food Production Increases as Owners Add More Pets

Pets are more popular than ever. And as the love for pets grows, so does the pet industry.

Research by the American Pet Products Association (APPA) showed pet ownership on the rise in the U.S. The APPA 2021-2022 National Pet Owners estimated 70% of households now own at least one pet.

A survey conducted in February 2022 by research company Statista showed that 14% of respondents acquired a new pet during the pandemic—that's double the number of people reporting they got a new pet in May 2020.

With pet ownership increasing, pet industry sales are naturally on the rise. In 2021, pet industry sales in the U.S. hit the highest level in history. APPA announced the industry reached \$123.6 billion in sales—the second consecutive record-setting year after the industry reached \$100 billion for the first time in 2020. The association was anticipating a 6% increase in 2021 but instead achieved a 13.5% increase in year-over-year growth.

"The numbers don't lie—the pet industry has shown itself to be incredibly strong and resilient with a record-breaking two years," says Anne Ferrante, APPA senior vice president of member relations and business development. "We expect continued growth as we look toward the remainder of 2022, although we anticipate it may be at a more moderate pace given the impact of volatile factors like inflation, supply chain issues, and global relations."

Every category of the industry, including pet food and treats, experienced increased growth.

- \$50 billion was spent on pet food and treats.
- \$34.3 billion was spent on veterinarian care and product sales.
- \$29.8 billion was spent on supplies, live animals, and over-the-counter medicines.
- \$9.5 billion was spent on other services, including grooming, dog walking, and boarding.

But not all pet owners are the same. Pet parents from different generations have different attitudes and behaviors toward their pets, which they express

with their purchasing habits. Millennials continue to be the largest segment of pet owners at 32%.

APPA's "Generational Report" showed that Gen Z and Millennial consumers have the highest percentage of online purchases and are more likely to purchase pet care items via online subscriptions. They are also more willing to try new pet foods, treats, and toys than older consumers. However, Gen X and Baby Boomers, despite the changing economic conditions following the pandemic, continue to spend more for food and veterinarian care than younger pet owners.

Recognizing the ongoing increase in pet ownership and the rise in pet-related purchases, pet food and treat processing operations are continuing to grow with both new plant builds and facility expansions. In the first six months of 2022, Pet Food Processing reported on 42 new facility announcements, investments, and expansions.

Notable investments and expansions include: Carnivore Meat Company acquired its fourth facility in Green Bay, Wis., in January; Mars Petcare announced a three-year investment of \$100 million in an expansion of its plant in Mexico; in April, Tuffy's Pet Foods opened its new wet pet food cannery inside its treat facility in Delano, Minn.; Nestlé Purina Petcare opened its new state-of-the-art factory located in Rayong, Thailand, in June; and Nutramax detailed plans for a \$30 million expansion of its Lancaster County, S.C., facility in mid-June.

On the supplier side, Trouw Nutrition cut the ribbon on its new Blending Innovation Center in Highland, Ill., in April; also in April, GA Pet Food Partners invested \$104 million in its new ingredient facility; Symrise Pet Food unveiled plans to build a new \$65.5 million headquarters in Greenwood County, S.C.; and Pilgrim's Pride broke ground on a \$75 million expansion of its existing facility in Douglas, Ga., to process chicken byproducts to use in pet food.

The pet food industry's growth shows no signs of stopping as pet ownership grows and new products are developed to feed that growing population.

VERTICAL PERSPECTIVES



KIMBERLIE CLYMA
Editor
Pet Food Processing

Survey Respondents Seek Their Share of Surging Salaries

Respondents to the 2022 edition of IoPP's annual Salary Survey are more confident about their prospects than they were at the outset of the pandemic, thus less risk averse and open to changing jobs. Employers have to pay to retain already scarce labor, pushing salaries up.

By Matt Reynolds, Chief Editor

The annual Institute of Packaging Professionals (IoPP) Salary Survey is always a revealing benchmarking tool. But this year, the 2022 edition offers a particularly interesting snapshot of an industry and a workforce in flux. After two years of survey respondents telling us they were reacting to pandemic uncertainty by hunkering down, staying put, and avoiding the risk of seeking greener pastures, the most recent crop of responses shows that an increasing number of respondents have recently found, or are likely to seek, new employers. Given an already tight labor market and the more recent "Great Resignation" trend, this pushes soaring salaries even higher, meaning management will have to invest in order to retain talent. Furthermore, it appears those employers are willing to make that investment in employees in younger and earlier age and experience cohorts than ever. **PW**

Total 2022 Compensation by Job Function

Salary Range	Job Function						
	Consultants	Corporate Management	Engineering	Marketing/Sales	R&D	Structural Design	Packaging Technology/Design
Under \$50,000 (calculated)	24.1%	0.0%	0.0%	3.8%	2.2%	9.1%	1.6%
\$50,000 - \$59,999	6.9%	0.0%	0.0%	8.8%	1.1%	9.1%	3.2%
\$60,000 - \$69,999	0.0%	0.0%	4.5%	6.3%	2.2%	0.0%	3.2%
\$70,000 - \$79,999	3.4%	0.0%	10.6%	8.8%	15.6%	9.1%	6.3%
\$80,000 - \$89,999	3.4%	2.4%	13.6%	5.0%	10.0%	0.0%	4.8%
\$90,000 - \$99,999	6.9%	0.0%	9.8%	6.3%	11.1%	0.0%	6.3%
\$100,000 - \$124,999	10.3%	14.6%	27.3%	11.3%	18.9%	63.6%	25.4%
\$125,000 - \$149,999	17.2%	9.8%	10.6%	13.8%	15.6%	0.0%	12.7%
\$150,000 - \$174,999	10.3%	12.2%	10.6%	13.8%	7.8%	9.1%	9.5%
\$175,000 - \$199,999	10.3%	14.6%	3.8%	11.3%	10.0%	0.0%	12.7%
\$200,000 - \$249,999	0.0%	29.3%	6.1%	7.5%	3.3%	0.0%	7.9%
\$250,000 or more	6.9%	17.1%	3.0%	3.8%	2.2%	0.0%	6.3%
Avg. (x \$1,000)	\$113.79	\$196.28	\$124.19	\$130.00	\$121.58	\$102.27	\$141.19
Base: 446*	29	41	132	80	90	11	63

*Note: The 2021 (reported in 2022) average salary \$130,070 is based on 540 total responses among 19 job function categories. The graphic above only illustrates seven pertinent packaging job functions with a significant number of responses, explaining why the base numbers here add up to 446 instead of 540. The other 12 job duties, which include Human Resources, Quality Control, Warehouse Logistics, or Education among others, comprised the remaining 94 base responses.

Source: Institute of Packaging Professionals 2022 Salary Survey

Total Compensation Surges in 2022

Percent Earning	2022	2021	2020	2019
Less than \$50,000 (calculated)	4%	4%	5%	3%
\$50,000 - \$59,999	3%	5%	5%	5%
\$60,000 - \$69,999	4%	7%	7%	8%
\$70,000 - \$79,999	9%	9%	11%	8%
\$80,000 - \$89,999	8%	8%	10%	10%
\$90,000 - \$99,999	8%	10%	11%	9%
\$100,000 - \$124,999	21%	20%	19%	22%
\$125,000 - \$149,999	12%	14%	12%	13%
\$150,000 - \$174,999	11%	10%	9%	8%
\$175,000 - \$199,999	8%	5%	5%	4%
\$200,000 or more (calculated)	12%	9%	7%	8%
Avg. (x \$1,000)	\$130.07	\$122.00	\$115.78	\$120.72
Base	539	828	996	1004

Source: Institute of Packaging Professionals 2022 Salary Survey

Domestically, the weighted average salary was up by 6.6% in 2022 over that reported in 2021. This continues a trend toward higher salaries that began last year, when 2021 salaries were 5.7% higher than 2020, and after a dip in 2020 that may have been related to wage freezes, or overall uncertainty at the beginning of the pandemic. The lower- to middle-income categories shrank a bit, while the highest income categories grew. Those reporting that they are earning \$60,000-\$69,999 or \$90,000-\$99,999, dropped by 3 and 2 percentage points respectively, compared to last year. Meanwhile, the two biggest increases in salary ranges were concentrated at the top of the pay scale, as people reporting salaries of \$175,000-\$199,999 or \$200,000 or more, each grew by 3 percentage points.

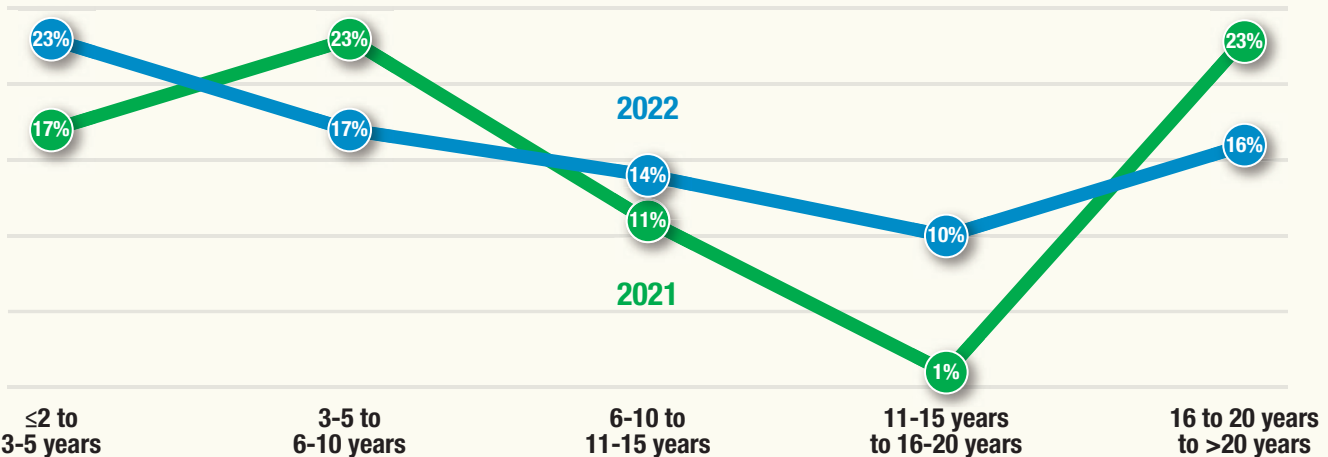
Methodology and Year-Over-Year Comparisons

Information illustrated in this report is derived from a survey conducted by the Institute of Packaging Professionals (IoPP), PMMI, and *Packaging World*. Responses were collected between January 26 and April 15, 2022. Of the 644 total responses, 72 who reported their primary business was outside of the U.S. were removed from compensation reporting to avoid currency exchange variables. Another 32 domestic respondents provided no demographic data, leaving a base of 540 highly qualified domestic packaging professionals.

Year-over-year comparisons are made many times throughout this report. Since the self-reported demographics—particularly on job function and industry—remain nearly identical in 2022 to what we saw in 2021, we can be reasonably confident in making comparisons.

However, only a about 41% of respondents in this 2022 installment of the survey also participated last year, and another 18% weren't sure if they participated. As such, though the demographics are very similar, the respondent set is not identical. Commentary on year-over-year comparisons is intended to be *in view* of an evolving workforce, rather than a direct one-to-one, apples-to-apples comparison. **PW**

Biggest Salary Gains Happening Earlier than Ever

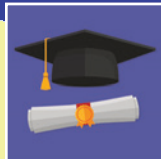


To compare salaries at differing levels of experience, we use experience ranges or 'buckets,' calculate the average reported salaries for each range, and then compare between the ranges. In most years, and again last year, we expect to see the largest jump in salary between the 3- to 5-year range, and the 6- to 10-year range. This translates to expecting the greatest salary gains after about 5 years of experience. That switched in 2021, as reported in 2022, with the biggest gains coming between ≤2-years and 3- to 5-years of experience. This indicates that companies are willing to make greater investments in retaining good employees even earlier than they had in previous years. This stands to reason with labor being harder to come by, and difficult to retain.

Best Predictors of Salary

What were the top predictors of a salary? After the obvious job function variable—corporate management makes more than operators on average—the three factors of experience, education, and age are the most accurate salary predictors.

Education



- Of the 31 respondents who reported not having an undergraduate degree, nearly half (45%) of them earn more than \$100,000. That figure was 36% in 2021 and 25% in 2020. Lack of an undergraduate degree is becoming less of an impediment to success, but more education still correlates with higher salaries, more raises, and better security.
- Those without undergrad degrees earned an unweighted average of \$100,970, the first time in PW's tenure with this study that they've averaged six figures. That's up 6% from \$95,380 in 2021, which was up 12% over 2020's reported \$84,500. Perhaps this is an indicator of the tightening labor market, and the need to look outside of the usual undergraduate degree talent pools. Still, the biggest salary gains are to be made once a degree is earned.
- The biggest salary jump based on education, a 22% salary increase, was reported between a high school/some undergraduate (\$100,970), and an undergraduate degree (\$122,630). Average salaries increase by 18% from undergraduate to graduate degree, and 21% from graduate to doctorate. *Note: only 11 respondents reported having a doctoral degree, so it's a small sample size.*
- Certified Packaging Professionals earned an average of \$134,310 in 2021, as reported in 2022, 15% more than their non-CPP peers who reported an average of \$116,590.
- People without undergraduate degrees are less likely to have gotten a raise in the past year (2021). Only 42% of those without undergraduate degrees reported getting a raise, compared to undergraduate degree holders (76% got a raise), graduate degree holders (66%), and doctoral degree holders (80%).
- People with undergraduate degrees feel more secure in their jobs. 56% feel very secure and 35% feel somewhat secure. Respectively, those numbers are 48% and 29% for those without undergraduate degrees.
- Those without undergraduate degrees are the least optimistic about earning more in 2022 than in 2021. Only 52% of them expect to do so, compared to undergraduate degree holders (66%), graduate degree holders (73%), and doctoral degree holders (60%).

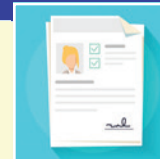
Access PMMI's Free Career Toolkit

PMMI's Career Toolkit provides resources to help companies address the critical shortage of skilled employees and promote awareness of careers in the packaging and processing industry. The toolkit includes:

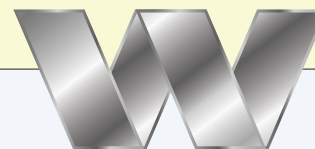
- PMMI Internship Guide
- Careers in Packaging and Processing
- Employer Guide to Hire Veterans
- Workplace Retention Best Practices
- Career Fair Promotion 101, User Guide
- U.S. Department of Labor Support
- Education & Workforce Development Best Practices Report
- The America Works Initiative

Learn more by visiting pwgo.to/5614

Experience



- In prior years, the largest experience-based pay jump was between the 3- to 5-year range and the 6- to 10-year range. This was 23% last year. This year, respondents say that biggest jump happens even earlier on the experience continuum. A jump of 23% is reported between the ≤2-year range (\$95,700) and the 3- to 5-year range (\$111,560). We see another strong, but less pronounced pay jump (17%) happening between the 3- to 5-year range (\$111,560) and the 6- to 10-year range (\$128,240). This means that employers appear to be willing to promote and pay more and more quickly for talented, but less experienced employees than they have in previous years.
- Just as we saw last year, we see another major pay jump as respondents move from intermediate experience ranges to the >20 year mark. This is to be expected since there are some large salaries among careers that have spanned more than 20 years, and may include careers upwards of 40 years.
- Of the six experience cohorts, the three most experienced (10-15, 16-20, and >20 years) are less likely to expect to earn more this year than they did the previous year, and more likely to expect to earn less this year than the previous year. Perhaps this is evidence of plateauing salaries at later stages of careers, and limited upward mobility. After 20 years or more in an organization, people may have advanced as far as they can, and as such salary gains may not be as dramatic.
- Of the six experience cohorts, the three least experienced (≤2-, 3- to 5-, and 6- to 10-years) are all 99% confident in at least earning the same as last year. Respectively, 79%, 83%, and 85% expect to earn more.
- Bonuses are a different story. People at the lower experience levels are less confident in bonuses, and less likely to have received one in the last year. Of respondents with ≤2 years of experience, 47% got a bonus last year and expect to get them this year. Of the 3- to 5-year experience range, 57% got a bonus last year and expect to get one this year. All other experience cohorts were near or above 70%, both in receiving a bonus last year, and expecting one this year. It appears that confidence in bonus correlates with greater experience.
- Experience still pays. The lower experience cohorts do see big salary gains earlier than ever (after ≤2 years), and those jumps, at least as a percentage, are not as dramatic among the 10+ year experience cohorts. Still, those who traverse the plateau and make it to the >20-year cohort see on average a 16% salary jump after 20 years. A chart on page 43, titled "Biggest Salary Gains Coming Earlier than Ever" illustrates this dynamic, and how it's changed in recent years.



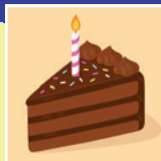
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Age

- The largest average salary increase, a 44% jump from \$91,740 to \$132,440, occurs between the 18-34 cohort and the 35-44 cohort. Average increases thereafter slow to 10% from 34-44 to 45-54, and 16% from 45-54 to 55-64, then we see a sharp drop off in salaries in the >65 years of age (-32%). This is perhaps due to emeritus status, reduced hours, semi-retirement, etc. in the >65 age group.
- This survey once again illustrates that while the highest salaries are certainly among the older and more experienced ranges, the largest percentage gains are to be had early on; in fact earlier on than ever. Also, there may be some diminished salary returns toward the end of a career, perhaps due to limited upward mobility/plateauing, compounded due to planned responsibility reductions. Among unprompted, write-in concerns (chart on page 48), Ageism/Staying Relevant again makes an appearance among 3% of respondents.
- Of the 18-34 cohort, 87% expect to earn more than last year, reflecting the most confidence in a raise of any age cohort. This reflects the greater upward mobility of younger ages. Only 67% of the 55-64 cohort and 38% of the >65 cohort, (about 2/3 and 1/3, respectively) expect to earn more next year.
- Of the 18-34 cohort, 90% are very or somewhat secure in their jobs, exhibiting higher job security confidence than any other age cohort.
- 30% of the youngest cohort, aged 18-34, make more than \$100,000 per year. That's up 4 percentage points from 26% in as reported last year. That cohort also earned 3% more in 2021 (\$91,740 reported in 2022), than last year. The previous year, they had earned 8% more in 2020 (\$88,980, reported in 2021) than they did in 2019 (\$82,560, reported in 2020). Salaries among the youngest cohort continue to grow at or more quickly than the overall averages.
- 33% of the oldest 65+ cohort earn less than \$100,000, perhaps indicating reduction in hours or responsibility. They also earn 32% less (\$116,250) than the next youngest cohort, 55- to 64-year-olds, who report making the most of any age group at \$170,580.



Free Podcast: Packaging Amid the Great Resignation

In the middle of what's been called the Great Resignation, what exactly does it mean when unPACKed with PMMI podcast guest Dr. Jessica Kriegel says "there is a war on talent, and the talent won?" Beyond a catchy quote, it's a statement she hopes will open the eyes of industry leaders in all sectors. **PW**

Gender



- The average salary reported by women (\$113,970) now trails that of men (\$127,900) by 22% in 2021 (reported in 2022), meaning the gender pay gap among respondents on this survey, is growing. This gap was 17% in 2020 (reported in 2021), and 16% in 2019 (reported in 2020).
- Men (72%) and women (70%) reported receiving a salary increase last year at nearly the same clip. The reported size of the raise was similar, too, though women were more likely to report the lowest raise range: 79% of women, and 74% of men reported a ≤5% raise. Meanwhile, only 13% of women reported a 6-10% raise, compared to 20% of men. While these are similar, men reported slightly more raises in general at the outset. Then, the percentage increase of those raises was slightly higher among men. These factors compound to help widen the gap.
- Both men and women reported having received a bonus last year at the same rate, and their expectations for future bonus are about the same. Women are slightly more secure in their jobs, also.
- While the at-first-glance parity on all of these metrics is encouraging, women aren't reporting quite as many or as high of raises as their male counterparts, which only grows the wage gap. Not to mention, even if there were parity on these metrics, that wouldn't translate to equality considering that women begin with the disadvantage of a lower average salary as a starting point.
- Women skew younger than men, with 43% being in the 18-34 cohort. Only 23% of men are in that cohort.
- Women are less experienced than men, with more than half (56%) having less than 10 years of experience. Less than a third (29%) of men report having less than 10 years of experience. The experience gap among respondents is even wider than it was last year, when 49% of women claimed 10 years or less experience, compared to 33% of men.
- More women (61%) than men (52%) report having an undergraduate degree only. However, among those with undergraduate degrees, 31% of men and 24% of women report a graduate degree, so a big-picture takeaway is that women and men report roughly equal levels of education.
- 19% of women respondents are engineers, compared to 28% of men. Current programs attracting women to STEM education aim to bridge that gap.
- 5% of women respondents are in corporate management positions, compared to 9% of men. Programs aimed at training women for leadership positions hopefully should help toward more equal representation in this job function.
- Women (21%) are more concentrated than men (11%) in sales and marketing roles.

Gender-based wage gap grows.

The age and experience distribution of women in packaging is a big factor in the now 22% gender-based salary gap. Women less frequently report their job function as engineering or corporate management, a reality that many programs are working to change via youth programs exposing women and girls to STEM subjects and leadership skills. The good news, as it was last year, is that the survey reflects a younger and less experienced cohort of women—with collectively comparable educations—that should eventually emerge into the upper age and experience echelons they previously didn't inhabit. But if women remain concentrated at their current experience, age, and job duty distribution, that doesn't bode well for gender pay equality. It is not clear whether the process of women matriculating into higher pay categories is just aggravatingly slow, or if women's experience, age, and job duty distribution is stickier, more fixed, than we had hoped and anticipated. Compounding the problem, men report slightly more, and slightly higher salary increase raises.

Not All Packaging Jobs Fare Equally

The overall average salary reported in this survey is up 7% in 2021 (reported in 2022) compared to last year. Last year's salary was up 6% over the previous year, reflecting a marginal acceleration of salary increase. But not all job functions or demographic groups fared the same.

Who won in 2021?	In-line with the averages
<ul style="list-style-type: none"> The Packaging Technology/Design job function, which is one of our largest reporting job functions, made a 14% jump from \$124,170 in 2020 (reported in 20201) to \$141,190 in 2021 (reported in 2022). 	<ul style="list-style-type: none"> Respondents in the Food industry experienced a 7% average salary increase, exactly in line with the overall average.
<ul style="list-style-type: none"> Money isn't everything; job security is nice to have, too. Of the 18-34 age cohort, 90% are very or somewhat secure in their jobs, exhibiting higher job security confidence than any other age cohort. 	<ul style="list-style-type: none"> The engineering job function is important since it tends to be the single largest job duty represented in this survey. Engineers reported slightly higher salaries this year over last, at \$124,190 this year compared to \$117,800 last year, but the 5% gain doesn't quite keep pace with 7% overall. The previous year, engineer salaries increased from \$108,700 last year to \$117,800, an 8% bump, so this represents a stable, evenly growing job duty category that's in line with averages.
<ul style="list-style-type: none"> Respondents who are IoPP Members earn more than non-members, by roughly 15%. 	<ul style="list-style-type: none"> The middle age range of 35-44 experienced a 9% increase, reporting a jump from \$121,570 to \$132,440.
<ul style="list-style-type: none"> Salaries in the Mountain Region once again grew, this year by 27% to \$151,830. They had grown by 19% the previous year, so the region containing states AZ, CO, ID, MT, NM, NV, UT, and WY is reporting quickly growing salaries. The West South Central region (AR, LA, OK, TX) grew salaries by 18%, and the Mid Atlantic (NJ, NY, PA) grew salaries by 15%, also higher than other regions. 	<h3>Most negatively affected</h3> <ul style="list-style-type: none"> Salaries in the Northeast, and East South-Central, Pacific, and South Atlantic regions are standing pat by barely changing at all ($\pm 2\%$ salary change in all these regions), but they are not keeping pace with the overall 7% growth. The East South-Central region of AL, KY, MS, and TN also reported the lowest salaries of all regions at an average of \$109,620.
<ul style="list-style-type: none"> The Beverage industry reported a 28% increase in salaries to an average of \$145,260. 	<ul style="list-style-type: none"> Among women, average salaries reported only grew 4%, compared to a 9% average salary increase for men. This is noteworthy, more on page 45.
<ul style="list-style-type: none"> Pharmaceutical and Medical industry respondents are most bullish about the receiving a raise coming year, with 84% and 82%, respectively, expecting to earn more next year than this year. They experienced salary increases of 11% and 7%, and the Pharma industry as a whole is the highest-earning industry among respondents (\$165,200). 	<ul style="list-style-type: none"> Corporate management salaries as reflected in this survey went up by 3% compared to the previous year, from \$190,970 to \$196,280. While any growth beats the alternative, the 3% increase doesn't keep pace with the 7% overall salary increase.
<ul style="list-style-type: none"> Respondents who make it past ≤ 2 year experience cohort, and grow into the 3-5 year range, have the greatest upward mobility, and received the largest percentage salary jump (23%) between consecutive experience cohorts. In previous years, this had happened after 5 years, indicating a shortening time period of "paying one's dues" before a big reward. This experience group is in line with other experience cohorts when it comes to expecting a raise in the coming year, though fewer did in the previous year, which stands to reason since its made up of respondents with ≤ 2 of experience. 	<ul style="list-style-type: none"> The smallest companies, with 1-9 employees, again saw a salary drop, down 4% from \$104,210 last year to \$99,700 in 2021 (reported in 2022). The previous year, they experienced a 7% drop in salary, so this is an ongoing trend.
<ul style="list-style-type: none"> The oldest pre-retirement age group, aged 55-64, experienced a 16% jump over the previous year, to \$170,580 from last year's \$147,111. 	<h3>Mixed results</h3> <ul style="list-style-type: none"> Last year, the oldest cohort, 65+, experienced the largest year-over-year salary bump of 31%, from \$107,250 to \$140,350. This was trend reversed, or perhaps reverted to the mean, by returning to \$116,250, a 20% drop from the previous year. Also, only 48% of those 65+ expect to earn more next year than this year, much lower than other age cohorts, perhaps indicating upcoming retirement or reduced hours. With smaller sample sizes than other age ranges, and the potential for limited work schedules/reduced hours, it's difficult to get a good read on the 65+ category.
<ul style="list-style-type: none"> Mid-sized companies, from 500-4,999 in size, saw a 15% increase in salaries to \$138,800, the highest percentage increase of the various company size ranges. The largest companies (50,000 employees or more) still command the highest salary figures (\$151,840), but those numbers could be skewed by a few high-earning C-Suite positions at major global CPGs. 	

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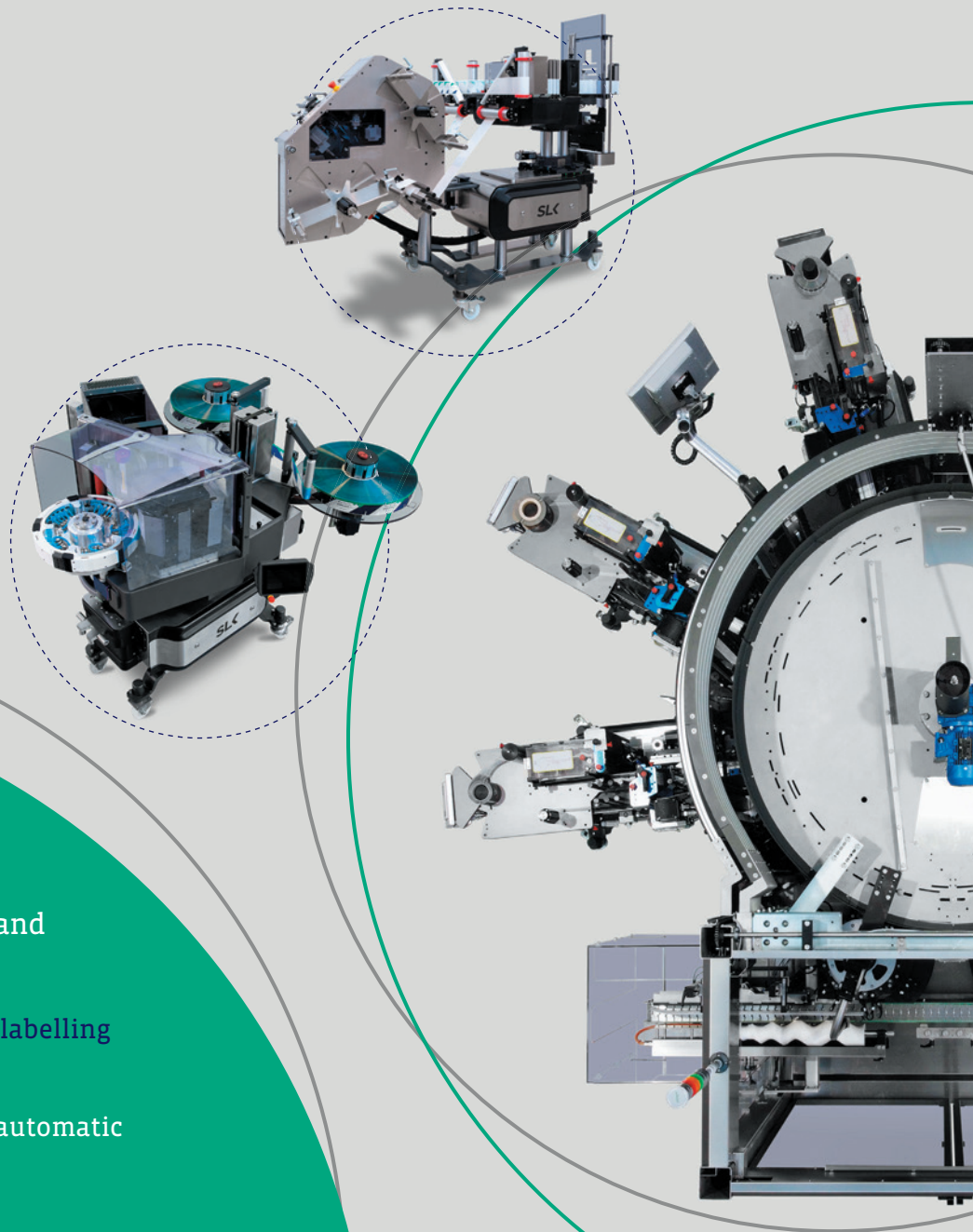


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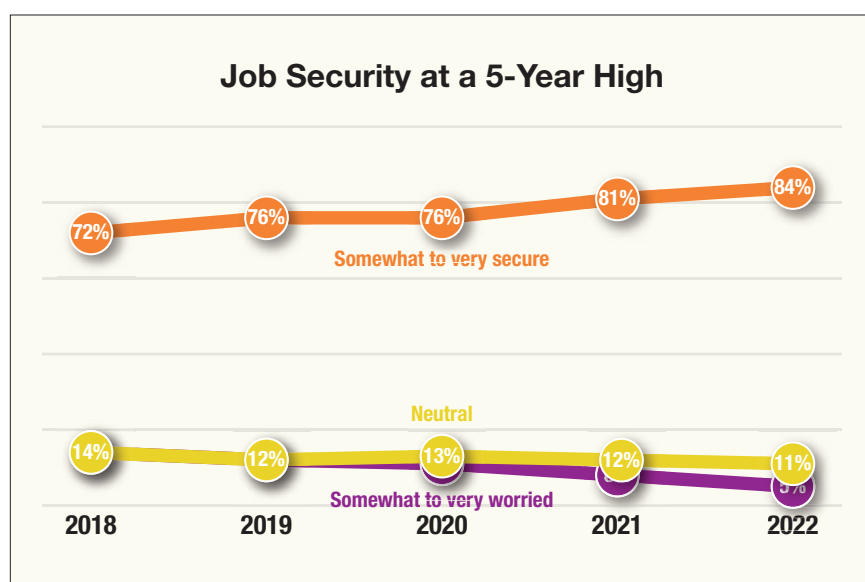
Employment and Job Security Findings

As a semblance of normalcy returned in 2021, respondents settled into a new routine in a new normal. With a tight labor market and a 5-year high in job security, more respondents are indicating that they will soon look for alternate employment, and even more are saying that they have already switched jobs in the last year. Now that the level of uncertainty around the pandemic is reducing, the impulse to stick to what you know diminishes and greater risk-taking behavior returns. And with this tight of a job market, and employees in high demand, it only makes sense for them to look.

Once Again Seeking Greener Pastures



After a brief dip in likelihood to seek other employment in 2021, we see respondents are again becoming more amenable to seeking out a new employer, though not quite to pre-pandemic levels yet.



Job security ought to be high in a tight labor market. Respondents seem to know it, with 84% feeling somewhat or very secure, and only 5% being at all worried about job security.

Economy the Only Big Threat to Job Security

Survey participants were asked to comment on what kept them up at night related to job security. A total of 454 respondents* answered this question, with 15% worrying about the economy. It was interesting to see Job Satisfaction ranked so highly among unsolicited responses here, up to 9% of the total, from only three total responses last year. That employees have the luxury to even factor in job satisfaction demonstrates how much of the power has shifted to the employee in a tight labor market era.

Category	Percentage
Nothing	23%
Economy	15%
Job satisfaction	9%
Stability (company)	8%
Undefined	6%
Job loss	6%
Personal Performance	5%
COVID	4%
Uncertainty	4%
Management	4%
Stability (industry)	3%
Personal Compensation	3%
Ageism/Staying Relevant	3%
Opportunities for growth	2%
Regulations/Policy	1%
Staffing/Staff shortage	1%
Health/Mental health	1%
Sustainability	1%

* Note: Qualitative answers reflected here aren't restricted to domestic responses, as were the rest of the quantitative responses illustrated in this article.

Source: Institute of Packaging Professionals 2022 Salary Survey

Job-Seeking Behavior Ticks Up

What happened to you this year?	2021	2020
No job change	78%	85%
Voluntarily changed employers	19%	11%
Involuntary termination	4%	4%
Base	816	536

Source: Institute of Packaging Professionals 2022 Salary Survey

During anytime of uncertainty, regardless of industry, we tend to see a high degree of loyalty as people hunker down and stay put to weather the storm. That's indeed what we saw in 2020 (as reported in 2021), as we settled into the pandemic era. This year, when asked about what happened to respondents in 2021 (reported in 2022), we still see a high degree of loyalty, but also an uptick in job-seeking behavior. We'll see if this continues.

Average Age Increasing

Range	2022	2021	2020	2019
18-24	6%	4%	5%	4%
25-34	25%	23%	23%	26%
35-44	24%	21%	22%	21%
45-54	19%	23%	23%	21%
55-64	22%	23%	23%	25%
65+	5%	5%	5%	3%
Average:	43.4	44.8	44.6	44.2

Source: Institute of Packaging Professionals 2022 Salary Survey

The average age of respondents fell to 43.4 from 44.8 last year and 44.6 the year before. Younger ages report significant pay increases earlier in their careers than they reported in previous surveys.

Job Duty Distribution Among Respondents

Packaging Job Function	2022	2021
Consultant	5%	5%
Contract Packaging	2%	3%
Corporate Management	8%	9%
Distribution	2%	1%
Education	1%	1%
Engineering	25%	27%
Graphic Design	1%	0%
Human Resources	1%	1%
Marketing/Sales	15%	12%
Package Production	1%	3%
Packaging Technology/Design	12%	11%
Purchasing	1%	2%
Quality Control	2%	1%
Regulatory	1%	1%
Research & Development	17%	14%
Supply Chain Management	1%	3%
Sustainability & Compliance	1%	1%
Structural Design	2%	3%
Warehouse Logistics	0%	0%
Other	3%	4%
Base	537*	816

Source: Institute of Packaging Professionals 2022 Salary Survey

Industry Distribution Among Respondents

Industry	2022	2021
Automotive	1%	3%
Beverage	5%	6%
Chemicals/Cleaning Supplies	7%	5%
Consulting Services	1%	2%
Contract Packaging	2%	3%
Cosmetics/Personal Care Products	5%	6%
E-commerce	2%	1%
Electronics	3%	3%
Hardware	2%	2%
Food	22%	25%
Medical	13%	9%
Nutraceutical	1%	1%
Pharmaceutical	9%	8%
PKG Machinery	3%	4%
PKG Materials	7%	9%
Services	3%	2%
Other	13%	12%
Base:	534*	810

Source: Institute of Packaging Professionals 2022 Salary Survey

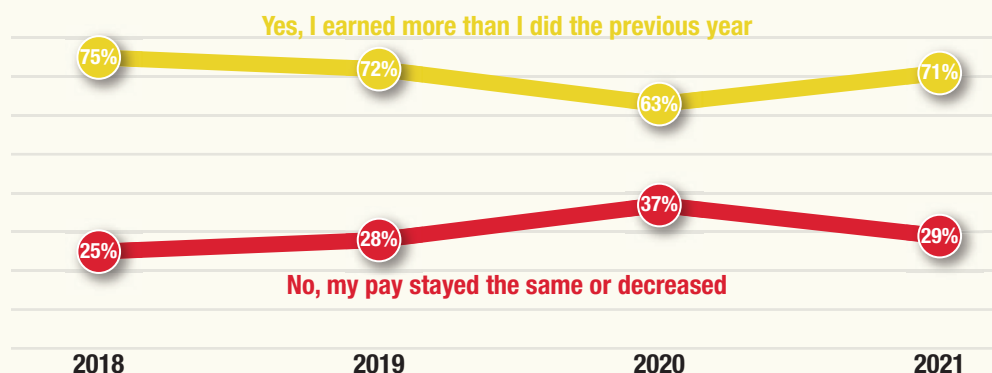
There was very little change in distribution between job functions and industries between last year's responses and this year's, reflecting year-over-year stability in respondent mix. Some job duties that are better reflected this year include: Marketing/Sales and R&D. Engineering is a job duty that is slightly less represented in the answer set. Chemicals/Cleaning Supplies and Medical industries were better reflected this year than last, while automotive and materials industries had less representation among responses than last year.

* Note: Demographic questions were not required to be answered, so the base number for each is slightly less than the 540 total respondents



Findings on Raises and Bonuses

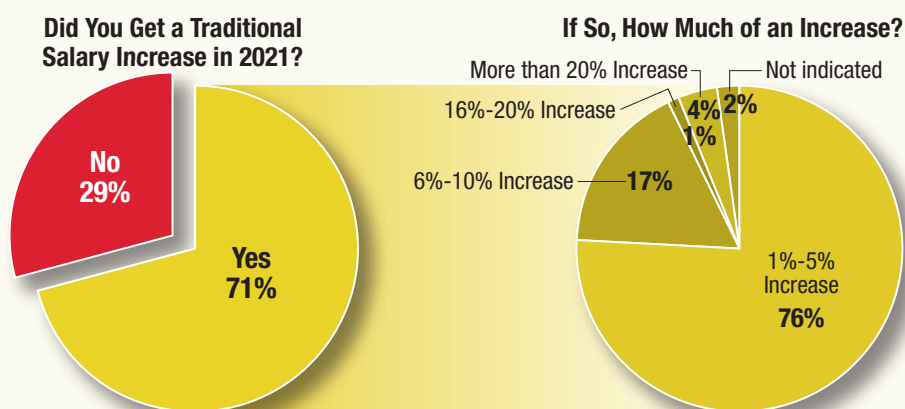
Post-Pandemic Salary Increases Bounce Back



Note: the survey question presented three possible answers: Yes (71%); No, stayed the same (26%); and No, decreased (3%). For simplicity's sake, we combine the two 'No' answers in this and the next graphic.

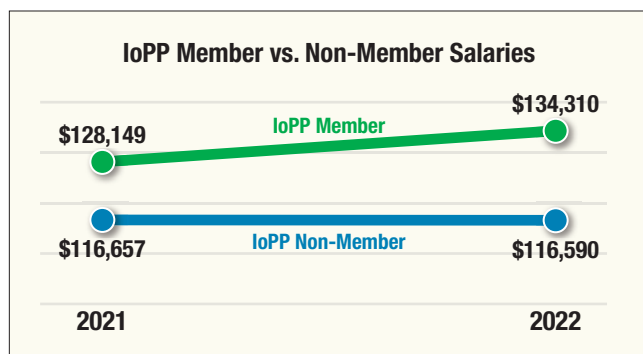
Lots of companies understandably tapped the breaks on traditional salary increases in 2020, and we saw evidence in survey responses of salary freezes. But respondents indicate that traditional salary increases were back in 2021, just not quite to pre-pandemic levels.

How Traditional Salary Increases Stacked Up



Of the 71% of all respondents who reported getting traditional salary increases in 2021, most raises (93%) were of less than 10%, with the vast majority of those being of less than 5%.

IoPP Members & CPPs Report Higher Salaries than Peers



Once again, IoPP members reported higher salaries than non-members, and Certified Packaging Professionals (CPPs) earned higher salaries than their non-certified colleagues. And over the past year, IoPP members and CPPs have widened the gap.

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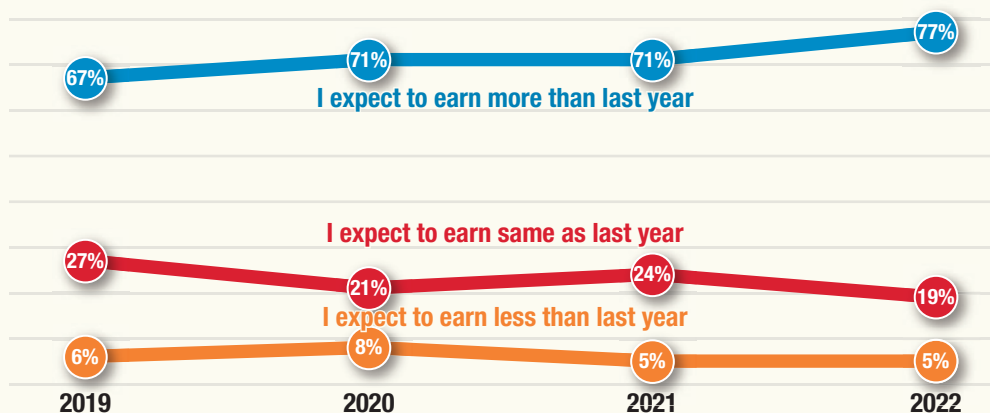
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Findings on Raises and Bonuses

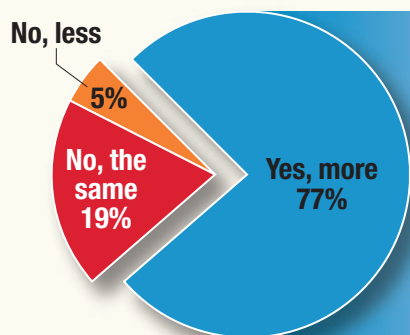
Expectations for Earning More Next Year Grow



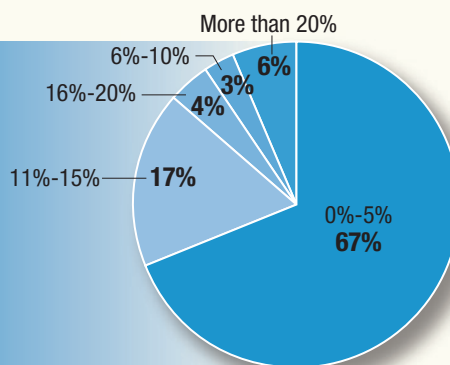
Respondent confidence is returning, and fear of making less next year is subsiding, in what we all hope to be the wake of the pandemic in a tight labor market.

Confidence in Future Raises Keeps Growing

Do You Expect to Earn More Next Year?

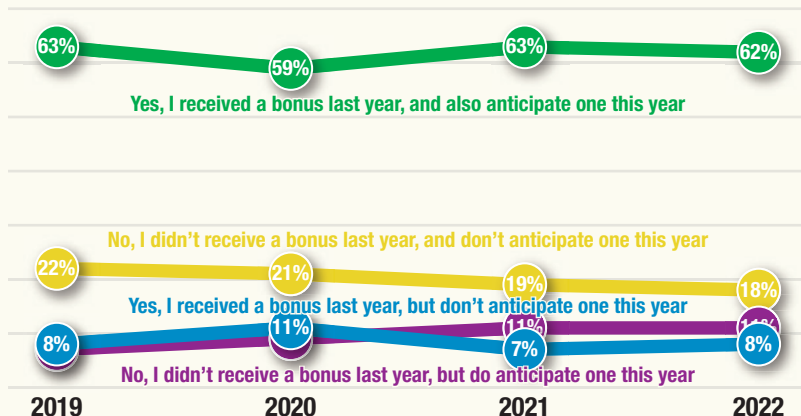


If So, How Much More Do You Expect?



Forward-looking responses on future salary expectations (77% expect more)—not only in whether they expect an increase, but also in *how much* of a salary increase—display greater confidence when compared to backward-looking responses on existing salary increases that occurred in the previous year (71% got more).

Bonus Expectations Stabilize



The green blue line (received a bonus last year, expect one this year) dip, combined with the minor blue line (received a bonus last year, but don't expect one this year) rise in 2020, reflect the uncertainty around the pandemic—responses for that survey were collected just as we entered the pandemic era. This seems to have stabilized, with single percentage-point movement if any between last year's and this year's responses (reported in 2021 and 2022, respectively).

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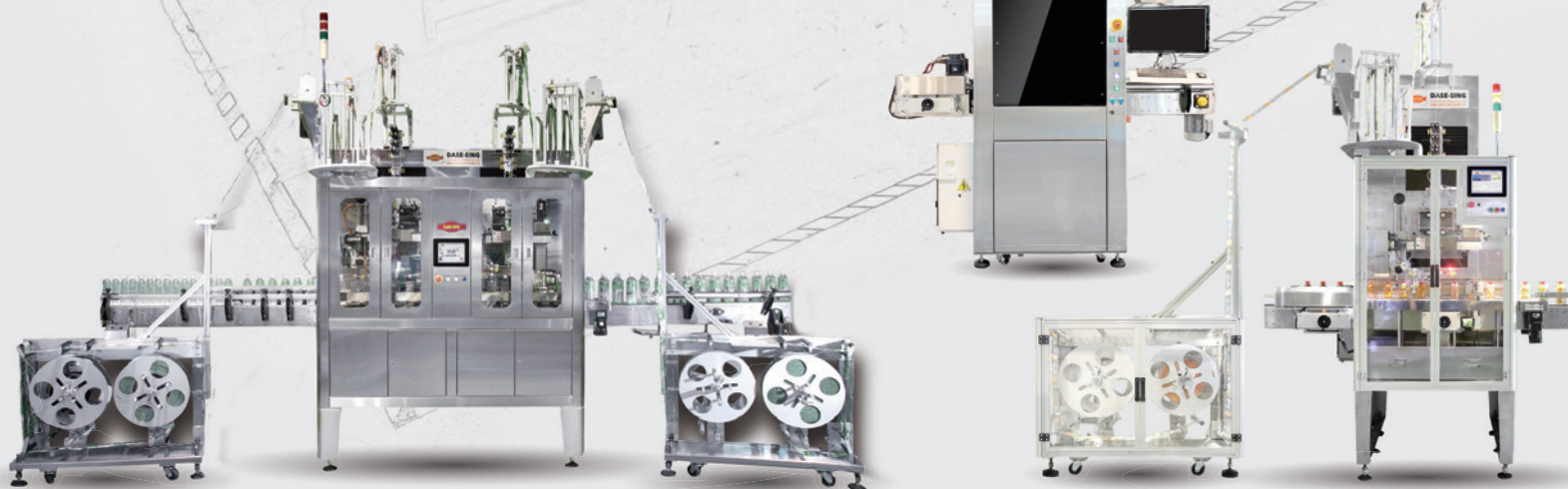
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PMG's Chicago Foodie Guidebook

Chicago is a true melting pot with some of the best multicultural cuisine in the country, and the PMMI Media Group team is here to help you navigate this culinary playground. These are our recommendations for the best restaurants in the city – pizza, pasta, burgers, tacos, sushi, you name it... Hungry yet?

Compiled by Casey Flanagan, Editorial Assistant

LATIN FARE



Kelly Greeby
Sr. Director,
Client Success
& Media
Operations

So many options! I'll stick to Logan Square and Bucktown just to narrow it down. I would recommend **Big Star Tacos** for middle-end Mexican food in Bucktown. The food is fantastic, and they have an excellent Bourbon selection! More casual, but AMAZING Mexican food is **Taco Veloz** on Chicago Avenue. It's 'dineresque,' and some nights they have karaoke! Another of my favorites is **Noodle Bird** in Logan Square; it's a really relaxed little Asian street food place. None of these places take reservations so be sure to leave some time to wait, and they may not be great for large parties!



Bea Greeny
Manager,
Digital Operations

As a vegan married to a carnivore, dining out can be a challenge. Here are neighborhood spots that deliciously accommodate both diets!

Head to **Casa Yari** in Logan Square for Latin fusion. For thin crust pizza, try one of **Coalfire's** two neighborhood locations, in West Town and Lakeview.

Don't want to venture far from the Loop? **Françoise Frankie** in the Loop is lovely. Visit **Cabra** atop the Hoxton Hotel for city views, or **Little Goat Diner** (ask for the vegan menu), both along the Randolph Street 'Foodie' corridor.

Lastly, for the Chicago brewery scene, try Marz **Community Brewing** (Bridgeport) or **Cruz Blanca** (West Loop).

My recommendation for dining in Chicago is **Cafe Ba-Ba-Reeba!** It's Chicago's original tapas bar, serving authentic Spanish Cuisine since 1985. The menu is designed to share, featuring tapas, pintxos (bite-sized tapas) and the classic Valencian rice dish, paella. Pair the casual dining experience with sangria, craft cocktails, Spanish wine, and local beers in their lovely Lincoln Park Restaurant with indoor and outdoor dining. They welcome groups of up to 160 guests in one or more of the six private and semi-private spaces or a total of 250 with a buyout of the full restaurant. Did I mention they have six types of amazing sangria?



Kurt Belisle
Account Executive



Alicia Pettigrew
Director,
Product Strategy

While everyone is in line over at Lou Malnati's, I suggest you try something a little different and head over to my favorite place – **Saucy Porka**. The menu is Latin Asian fusion and the bao tacos and egg rolls are amazing. Pork is the star of this restaurant's show, but it has vegan and vegetarian options too. But if you really feel like you must have pizza in Chicago and don't have time for the line at Lou's, try **Aurelio's**. It's another Chicago area staple and you won't leave disappointed (or hungry)!

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BY THE SLICE



Matt Reynolds
Chief Editor
Packaging World

Try **Pequod's** near Lincoln Park for deep dish that's more like pan pizza than stuffed crust. Don't get it twisted, the cheese crusts are "caramelized," not "burned." In River North, try **Siena Tavern** by Top Chef's Fabio Viviani. Get the bomboloni desert—fresh-fried donuts where you get to select and inject the filling. Family-owned, non-chain Argentinian spot **Tango Sur** in Lakeview has great steaks slathered in garlic-y chimichurri. And find off-the-beaten-path Italian at **Munno Pizzeria & Bistro**, with real-deal Napoletana pizza and fresh, bistro-style pasta. Plus, Munno is across the street from famous country/western music venue **Carol's Pub**. Grab a fried bologna sandwich at Carol's for late night bar food.



Casey Flanagan
Editorial Assistant

Pequod's Pizza in Lincoln Park bills itself as "Chicago's best deep-dish pizza," and it might just be right. The deep dish's caramelized crust is unmatched, achieved with mozzarella cheese cooked on the edge of the cast iron. Pequod's casual sit-down atmosphere is perfect for a post-expo meal with colleagues.

For a good burger, check out the heavy metal-themed **Kuma's Corner** at Fulton Market. Menu items are named after legendary metal bands, and each one lives up to its namesake. Kuma's has tons of local beer on tap and great cocktails to boot – just be ready to rock.

ASIAN FLARE



Wendy Sawtell
Vice President,
Sales

I love sushi and Chicago has hundreds of great Japanese restaurants to choose from. In the West Loop, I like **Momotaro**, which also has **Izakaya** in the lower level with a bar for great cocktails, sakes, and Japanese whiskeys. I also like **Nobu**. The sushi is amazing and the view from the roof is fantastic. If you like Thai food, head to **Star of Siam** for a quick, low-key meal that never disappoints. It serves all the Thai classic dishes and more.

Roka Akor in River North is my favorite Japanese restaurant in the city. Make sure to try the wagyu dumplings!

Cafe Ba-Ba-Reeba! in Lincoln Park is a really fun tapas place if you're in the mood for paella and sangria. The piri-piri chicken is my favorite.

Time Out Market in West Loop is a great option if your group can't decide on a restaurant. It has dozens of Chicago's best restaurants under one roof, so there's something for everybody.



Eric Ashbrook
Marketing Specialist

If you're willing to trek north to Lincoln Park, I recommend making a dinner reservation at **Sushi Hall**. Chef Mitch Kim (long-time Lincoln Park resident and sushi expert) serves only the highest quality and freshest fish. Want a special experience? Snag a "Chef's Counter" reservation and chat with Chef Mitch Kim himself!

A new Lincoln Park addition, **Kala Modern Greek** is a great place for a light lunch! My go-to is a pork skewer plate and house-made frozen Greek yogurt (known as Fro-Go). Kala has lots of vegetarian options—the plant-based beef burger with baked feta & garlic sauce is a must!



Emma Satchell
Digital Content Producer

VIEWS

FROM THE TOP



Short on time, but need a quick and reliable food recommendation? PMMI's executive team has you covered. Below you'll find fast tips for the best fine dining, pizza, and greasy spoons in Chicago, courtesy of our own leadership.

LAURA THOMPSON, VP, Trade Shows, PMMI



Fine Dining:
RPM Steak

Pizza:
Lou Malnatis

Greasy Spoon:
Eleven City
Diner

JIM PITTAS, CEO, PMMI



Fine Dining:
Gibsons

Pizza:
Lou Malnatis

Greasy Spoon:
Portillo's

JOE ANGEL, President, PMMI Media Group



Fine Dining:
RPM Seafood

Pizza:
Lou Malnatis

Greasy Spoon:
Star of Siam

AMERICAN EATS



Emma Udell
Marketing & Data Manager

Gather in Lincoln Square is a very chic spot with an open kitchen! I love watching the chefs prepare food. It serves New American fare plus wine, microbrews, and craft cocktails. It's also a great brunch spot. I recommend the whipped ricotta and cured salmon to start! For the main course, the burger is a real winner. The seasonal pastas are also great if want a veggie option. For a spot to grab drinks before dinner, wander up the street to **Gene's**. It's a local market with a German beer garden on the roof!



Trey Smith
Senior Director,
Events

Steps from the Merchandise Mart, **Bavette's Bar & Boeuf** stands out among a sea of traditional steakhouses in Chicago. Seriously, there may be as many steakhouses as there are Starbucks in this city. I find the speakeasy ambience pairs well with a classic martini, shrimp cocktail, and their signature dry-aged bone-in ribeye.

Located in Lincoln Park near the famous Second City theater, **Twin Anchors** has been around since 1932 and was once frequented by Frank Sinatra. Don't bother looking at the menu. This old-school tavern and barbecue restaurant has the best fall-off-the-bone ribs in the Midwest. Reservations are NOT accepted, so put your name on the list and walk down the street to **Marge's Still**, the oldest pub in Chicago, operating since 1885.



Kathy Travis
Art Director

If you're in the mood for seafood, I highly recommend **Catch-35 Chicago**. Conveniently located in the theater district near the river, Catch 35 offers an extensive menu with a variety of seafood dishes and an amazing selection of steaks, Asian-inspired entrees, and combination dishes. Growing up along the shores of the Great Lakes, my personal favorite is the Parmesan Asiago Whitefish, because whitefish is a Great Lakes tradition! The restaurant has an extensive wine list to choose from, and it occasionally features live music. In all, Catch 35 is a great dining experience with plenty of options for all tastes.

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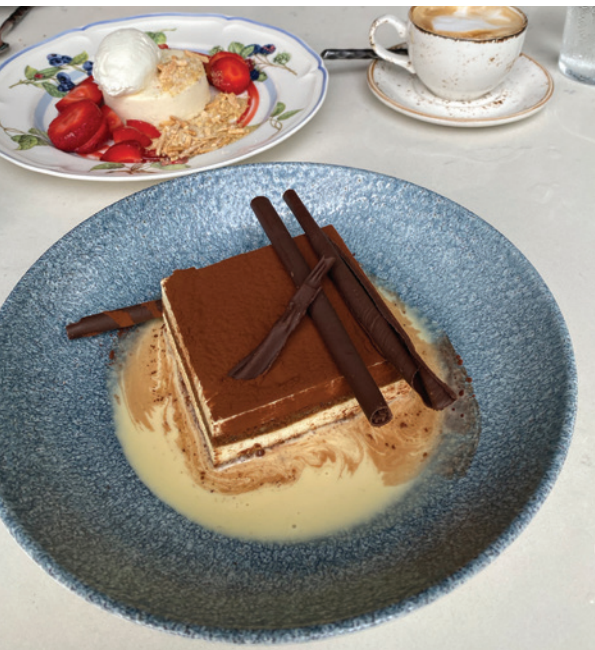


PHOTO COURTESY OF KIM OVERSTREET

Acanto offers diners a generous selection of decadent desserts.



Kim Overstreet
Director,
Emerging Brands
Alliance

I live in the 'burbs so my recommendations may be a little "tourist," but for dining in Chicago I like **Petterino's** in the theater district. It's got an 'old-school cool' vibe with plush red half-circle booths, walls are covered with caricatures of "famous politicians, celebrities, and influential Chicagoans" who have dined there, and an often busy air. I'd describe the menu as 'elevated supper-club with an Italian twist.'

Another recommendation is **Acanto**, an Italian restaurant with delicious drinks, desserts, and outdoor seating that puts you in the middle of the Millennium Park activity.

EUROPEAN TOUR



Liz Tierney
Account Executive

There are so many great restaurants in Chicago, it's hard to narrow it down! For a dark, cozy French-inspired vibe, **Bavette's Bar & Boeuf** is a great spot. I go for the seafood tower and cocktails, but the steaks and sides are great, too! **Alla Vita** is great family-style Italian. The dining room is gorgeous and the chicken parm is a must! For a spot that's off-the-beaten-path, try **Andros Taverna** in Logan Square. It serves amazing Greek food. Everything on the menu is excellent, but I love the octopus, the Andros salad, and the zucchini chips.

Piccolo Sogno features rustic Italian cuisine with an impressive wine list. The best part about this restaurant is its outdoor garden with a canopy of trees. Located just west of the loop, it is a great neighborhood spot. **Athena Restaurant** has classic Greek food in a modern setting. The inside features an atrium with a retractable glass roof. It also has a lovely outdoor garden with a peaceful waterfall. **Aba** is a Mediterranean restaurant with a rooftop patio located in Chicago's historic Fulton Market. It has great cocktails as well as shareable plates, so it's perfect for large groups. This is a Lettuce Entertain You restaurant, so you know it's yummy! **Prosecco** is an upscale Italian restaurant in River North. It has classic high-end Italian dishes in a romantic, art-filled dining room that reminds of Venice. It has a nice round table in the corner for a group of nine and a smaller private room for eight guests.



Claudia Smith
Event Coordinator



Lara Krieger
Print Production
Manager

Around four years ago, I discovered an unknown Italian restaurant on Grand Avenue: **Volare**. Originally, I presumed that its quality and authenticity would be lack-luster, but I was truly mistaken. Upon walking in, the smells of garlic and olive-oil permeated the air. Once sat, my table received complementary fresh garlic-bread, one of the best I've ever experienced. For drinks, I struggled to make a selection from the extensive menu, but I ultimately settled with the classic merlot. For my entrée, I ordered insalata di mare: salad of the sea. The octopus and calamari were grilled to perfection and the lemon sauce was divine! My friends and I wrapped up our meal with a dessert recommendation from our lovely server: a pistachio cannoli.



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 Atec US LLC, Sterile Technology, W-15034
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 AUM PAPER PRODUCTS PVT LTD, W-25067
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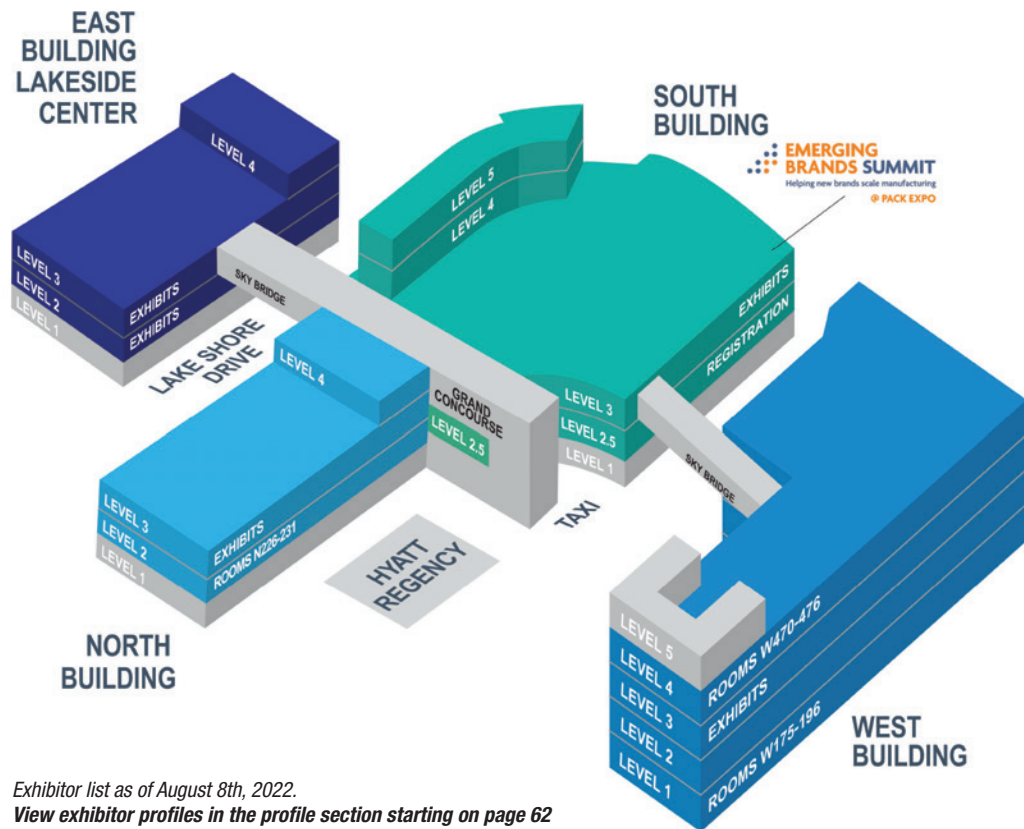
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Baumer hhs has the right solution whether you process or dispense cold glue or hot melt, or you want to verify adhesive position and quality aspects of your products. Baumer hhs understands that sustainability is crucial. Our new ecological melter system is the key to making completely plastic-free packages. The system provides a new way to produce and seal packages without the use of traditional plastic-based adhesives.

Run cleaner, quieter and longer by adding our DotBox to the tesla applicator. The Baumer hhs tesla electrically activates hot melt applicator that does not require compressed air or a separate gun driver. The DotBox is suitable for applications such as case and carton sealing and erecting, tray making, folding carton, bottle carriers, tobacco packaging and pharmaceutical packaging.

hhs

Baumer Group



See us at booth
N-4619

Dot your way to a greener day

hhs
Baumer Group

Save glue by stitching and dotting beads



October 23-26, 2022
Chicago, Illinois USA

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N-4619

Let's stick together

baumerhhs.com

BECKHOFF AUTOMATION

13130 Dakota Ave, Savage, MN, 55378

Phone: 952/890-0000 Email: beckhoff.usa@beckhoff.com

www.beckhoff.com/packexpo

From Flying Motion and adaptive manufacturing with XPlanar to cloud-connected IoT tools and beyond, Beckhoff will showcase new hardware and software solutions that enable revolutionary packaging applications at PACK EXPO Chicago 2022. Track-changing and stainless steel IP69K versions of the eXtended Transport System (XTS), along with updates to the fully integrated portfolio of Industrial PC (IPC), EtherCAT I/O, drive technology, mechatronics and TwinCAT 3 automation software technologies, are just a few innovations that will be on display.

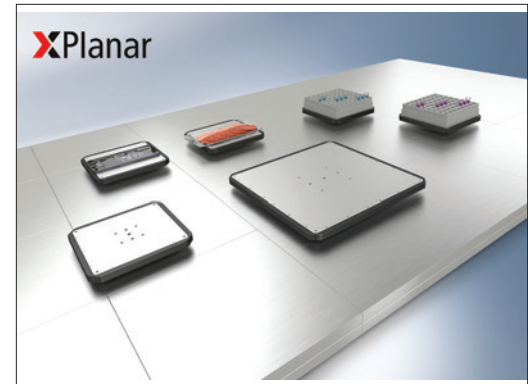
The eXtended Planar Motor system, XPlanar, offers unparalleled capabilities for adaptive packaging, material handling and inspection, along with opportunities to shatter conventional thinking in automation, implement non-linear processes and enable true lot-size-1 production. The Flying Motion system from Beckhoff creates no contamination through contract-free and wear-free movement, and the freedom to use any surface covering – stainless steel, glass, plastic, etc. – makes XPlanar a sanitary, washdown-capable solution.

XPlanar comprises a base of freely arranged planar motor tiles that generate electromagnetic fields to levitate and propel passive movers in multiple sizes. With speeds up to 2 m/s and max acceleration of 1 g, movers carry payloads ranging from 0.4 kg to 4.2 kg (roughly 10 pounds) and can work together for even larger payloads. Path planning, automatic collision avoidance, 360-degree rotation and anti-sloshing functionality are standard in the motor tiles and TwinCAT software. As such, XPlanar delivers unlimited customization, fully integrated functionality and simplified programming for diverse packaging machines.

PACK EXPO attendees can also expect to see the latest updates to the eXtended Transport System (XTS) from Beckhoff. XTS Track Management further boosts the system's flexibility with the software and hardware functionality to transfer movers between multiple XTS tracks, which enhances customization, quality inspection, automatic defect ejection and other critical production and packaging tasks.

Beckhoff will showcase new technologies from every product family, including TwinCAT 3 software, which offers a comprehensive engineering and runtime environment, along with integrated packages for IoT, analytics, robotics, machine vision and machine learning. Power measurement, overcurrent protection and TwinSAFE functional safety are just a few of the EtherCAT I/O solutions that will be on display. The C60xx ultra-compact IPC series will return to PACK EXPO with new variants to suit even more applications, and attendees will get a comprehensive look at the full IPC portfolio through the Beckhoff Embedded PC, Panel PC and Control Panel lines.

The AMP8000 distributed servo drive system will also be on display in the Beckhoff booth. Control cabinets are increasingly eliminated from machine design with Beckhoff's distributed, machine mountable products that include industrial PCs, I/O, drives and motors.



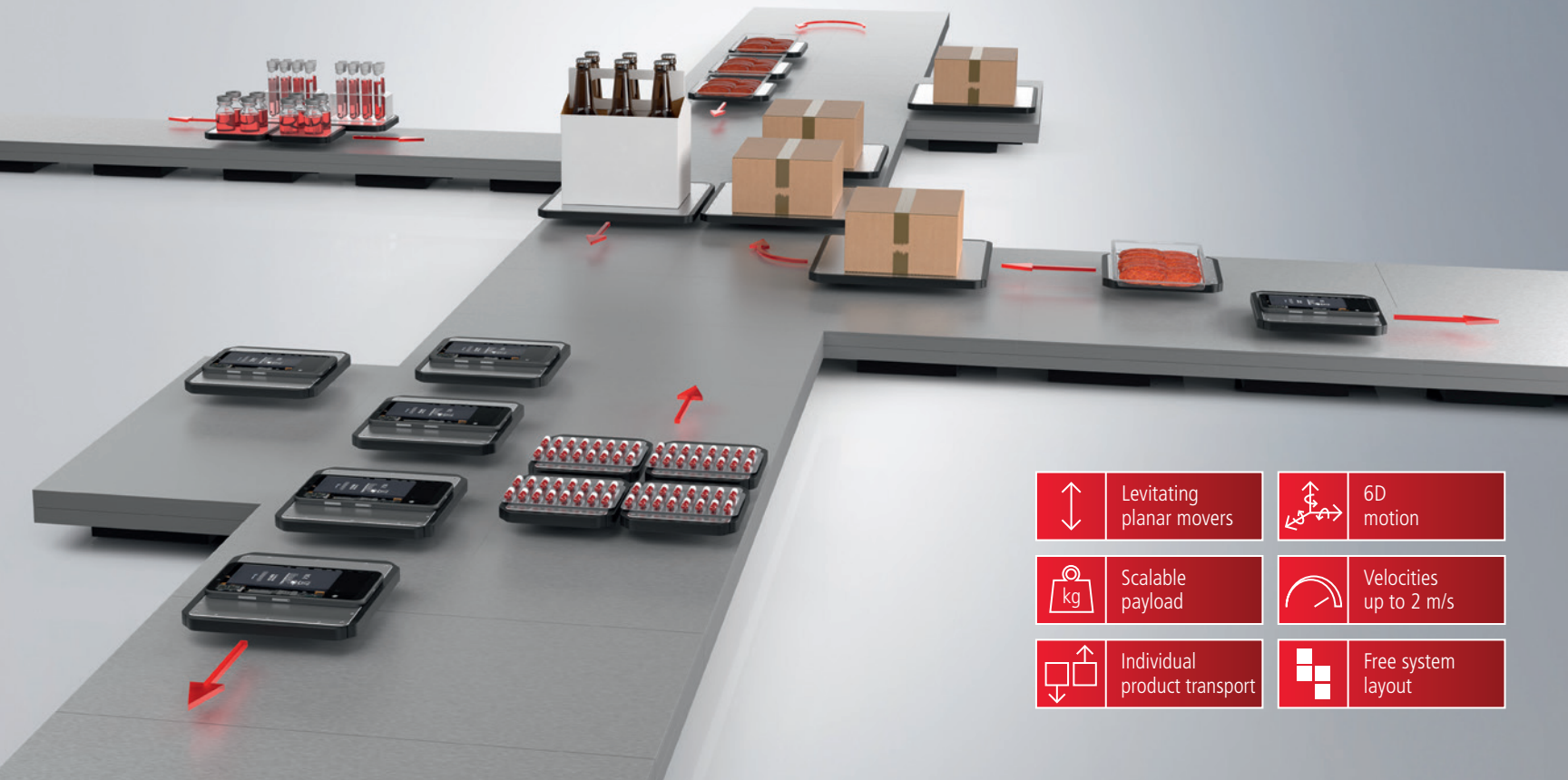
BECKHOFF



See us at booth
S-3882

XPlanar®: Agile machines with adaptive automation

Flying 2D product transport with up to 6 degrees of freedom



	Levitating planar movers		6D motion
	Scalable payload		Velocities up to 2 m/s
	Individual product transport		Free system layout

XPlanar enables new dimensions of freedom in product and material handling: Levitating planar movers fly over flexibly arranged planar tiles accommodating nearly any track layout and path planning.

- Individual 2D transport at up to 2 m/s
- Processing with up to 6 degrees of freedom
- Transport and processing in one system
- Wear-free, hygienic and easy to clean
- Free arrangement of planar tiles enabling totally customized machine and process layouts
- Multi-mover control enables parallel and individual product handling
- Fully integrated into the powerful and standardized PC-based Beckhoff control system (TwinCAT, PLC IEC 61131, Motion, Measurement, Machine Learning, Vision, Communication, HMI)
- For use across all industries: assembly, packaging, food/bev, pharma, laboratory, entertainment, ...



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New Automation Technology

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BestCode designs and manufactures Industrial Coding and Marking Printing Systems. Systems print real-time "Best By", "Lot Code", "Sell By", "Expiration Codes" and other identifying marks and codes on industrial and consumer goods to ensure product traceability.

Products are designed and manufactured in the USA; FORT WORTH, TEXAS. For more than 25 years, the BestCode group continues to produce industry-changing, forward-thinking innovative industrial printing designs. Product designs are focused on ease of use, trouble-free operation, long-term reliability, and affordable cost of ownership with an emphasis on global market requirements.

Systems print small and large character text, graphics and barcodes at high speed, non-contact, instantly dry on a wide range of substrates, including plastic, glass, paper and more - meeting the requirements for food, consumer good and industrial coding and marking applications.

BestCode offers a complete range of marking and coding solutions (50+ model configurations) - entry level affordable options through mid-range capabilities and high end, specialized engineered solutions focusing on the highest speed, most sophisticated applications.

BestCode systems minimize user interaction, limiting the hands-on time for typical coding system operations, extending the operation time between human interactions. Systems are the most efficient CIJ printers available, lowering overall coding costs. Systems are State-of-the-Art, Current Technology, Industrial, Built-to-Last and designed for the World Market, featuring more than 20 operating/printing languages.



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4147

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Bevcorp offers solutions for your filling, blending, container handling, and seamer packaging equipment, parts, and service needs. Our goal is to provide unparalleled service highlighted by our dedicated commitment to serving the food and beverage industries. We provide high speed rotary filling equipment including new and Bevcorp Certified can and bottle fillers. We manufacture both electronic volumetric and mechanical rotary filling equipment. Our Microblend Division manufactures the Micro2 Advantage Series Blender, in-line carbonator, CSD, hot fill and non-carbonated blenders, replacement parts, and provides 24-hour service and support. Our handling division provides quick-change handling, conversions for all brands of equipment, parts carts & storage solutions, vent tubes/ball cages, base control and neck handling solutions. Our seamer division provides rebuild and overhaul services for Angelus seamers, 24-hour emergency service, parts, stainless, quick-change and custom guarding upgrades, service installation, and training.



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N-4912

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www.blueprintautomation.com

BluePrint Automation (BPA) is a world leader in end-of-line packaging automation. With a diverse and innovative team of experts in consumer goods packaging, BPA designs, develops and manufactures secondary packaging solutions for flexible and other tough-to-handle packages.

- Primary Packaging: Vision-guided robots picking individual packaged and unpackaged items for loading into your container or hffs machines. Solutions include stacking, tray and carton loading, wrapper loading, variety packs and more!
- Secondary Packaging: Horizontal and vertical pack solutions for a variety of products and secondary containers including case and tray packing, carton loading, wrap around, side load cartoning, bag in bag and shelf ready display solutions.
- Turnkey Packaging Systems: Taking control of your packaging line from the end of processing through palletizing.

Visit BPA booth N-5709 to see live demos of different products being picked and loaded into a variety of secondary containers; including their own Easy D shelf ready case!



See us at booth
N-5709



Watch the
BluePrint
Difference

BPA packs all types of products into cases and various secondary containers including loading into your hffs machines, wrapper chain in-feeds and indexing thermoform machines.



We Ask. We Listen. We Partner.

Vision Guided Robotics | Secondary Packaging | Turnkey Packaging Solutions

The Blueprint Way

End of line packaging solutions including, wrapper, carton and tray loading, case packing, bag in bag multipacks, shelf ready solutions and more!



BRENTON, A PROMACH PRODUCT BRAND

4750 County Road 13 NE | Alexandria, MN 56308

Phone: 320.852.7705

Email: Brenton@ProMachBuilt.com

www.BrentonEngineering.com

End of Line Packaging Equipment:

Brenton designs and manufactures End of Line (EoL) packaging equipment including case packers, palletizers, and robotic solutions. With expertise in conventional, hard automation as well as robotics, Brenton has the solution to fit your specific application requirements.

Our case packing family offers solutions ranging from under 10 cases per minute to over 85 cases/trays per minute, accommodating RSC, HSC, tray, wrap-around, knock-down and harness cases.

As a FANUC Certified Servicing Integrator and Strategic Market Specialist, Brenton's extensive knowledge in robotics continues to expand. With proven robotic solutions in case and carton packing, palletizing, highspeed pick and place, material handling and customized robotic systems, Brenton provides their customers with a partnership deeply rooted in experience.

Complete System Integration:

Brenton has seen and responded to the accelerating demand for turnkey, OEM integration and the benefit it offers their customers. For over a decade, Brenton has offered complete EoL integration between Brenton and customer specified equipment. This includes staged Factory Acceptance Tests (FAT) guaranteeing peak performance capability, quicker start-up, lower risk, increased system safety and one point of contact for all product lines, resulting in better communication between the pieces of equipment.

Aftermarket Customer Care:

With one of the longest running aftermarket programs in the industry, Brenton has a team of in-house aftermarket parts, service and machine modernization experts. The parts and service departments work together to provide 24/7 support, keeping running at peak capacity. Brenton can modernize or rebuild your existing Brenton or competitor solution to reach peak OEE.



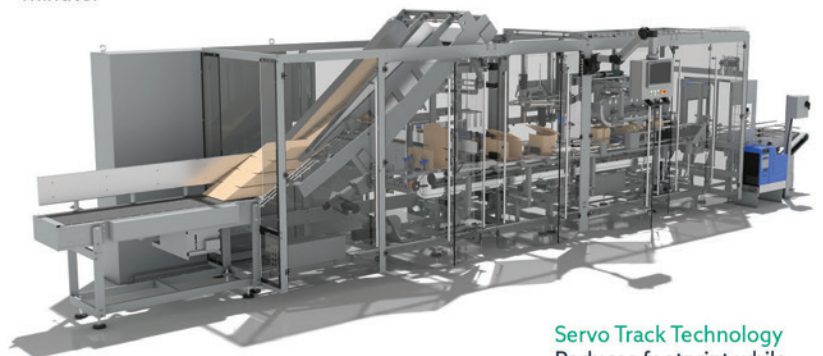
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Mid-Range Solution
Runs 30-50 wrap-around
or tray style cases per
minute.

Intuitive HMI
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Bradley PanelView
Plus with 2-Touch
navigation



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changeover with minimal
manual changerover
points

Servo Track Technology
Reduces footprint while
increasing case output
rate.

Experience the NEW M3000 Variable Pitch Case Packer

Filling the gap in our case packing portfolio



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N-5546

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BROTHER USA MACHINERY

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Email: salesla@usabrother.com

www.usabrother.com

For more than 25 years, Brother have been offering to the world the most affordable and practical packaging solutions, helping new businesses start like a Pro and empowering existing ones reach their potential, with automated fully multifunctional lines.

We provide a wide variety of machinery for any type of industry:

- Complete Automatic Packaging Lines with Z Conveyor , Multihead Weigher, Vertical Packager or Doypack system, Finished Product Conveyor.
- Vertical Packagers and Horizontals Flowpack Wrappers.
- Fillers by Volume, Piston , Auger or Single/Multihead weighing systems that can be combined with a Packager or Doypack.
- Thermal Shrink Packaging .
- Tape Box Closer/ Carton Erector Lines.
- Strapping Systems
- MAP / Vacuum systems
- Tray/Cup Fill Seal,
- Blister- Skin,
- Conveyors : Belt, Rollers, Chain , 90 degrees, Extendable Printing: Hots Stamp, Hot Roll, OPP, Robotic Arms for fillings and so on.

Brother machines are designed to support and keep your business moving to the next level, with the best quality , service , parts, at affordable cost.



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LU-8720



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CAMA NORTH AMERICA

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Phone: 847) 607-8797 Email: Cama-US@camagroup.com

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Cama North America, a PMMI member company, is dedicated to providing the quality, technology, manufacturing and aftermarket services that are required by the North American market.

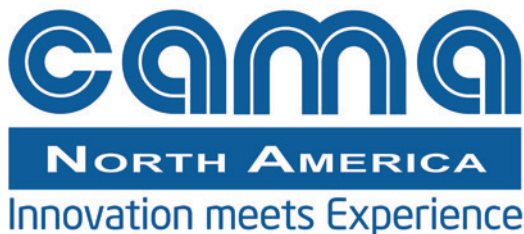
With Cama's BreakThrough Generation (BTG) secondary packaging solutions, users enjoy such benefits as fast RFID-based changeovers and the flexibility to run a wide range of packaging formats without impacting floor space, as well as Industry 4.0 features, including Augmented Reality (AR) technology.

Our vast machinery portfolio includes Cartoning, Sleeving, Case Packing, and Robotic Loading Systems. Cama's modular, flexible systems offer ease of use, flexibility, compact footprint, and high-speed solutions. Case Packing systems include RSC; Wrap-Around and Display Box; Forming, Closing, and Lidding solutions. Cama's Horizontal Cartoning Systems include Side-Loading systems and Forming, Closing, and Lidding solutions. Looking for robotic loading systems? We offer 2-axis and 4-axis multipurpose loading units, as well as our Triaflex Delta robot.

Cama will exhibit its Model IF315 Monoblock top-loading system with integrated robotic orientation, robotic loading, cartoning and wraparound case packing functions within our monoblock frame, including our vision guided RB590 Triaflex delta style robot. This system is ideal for packing most any flexible or rigid product in both secondary and tertiary packaging in a compact framework.

In addition, we will be demonstrating the next evolution of our class-leading augmented reality (AR) solutions. Cama's Augmented Machine Assistance Package offers immersive, line side support for warranty, spare parts and consumables.

Visit us in Booth S-3386 or www.camagroup.com to learn more.



See us at booth
#S-3386



IMMERSE YOURSELF IN GENERATION 4.0



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

[in /company/cama-north-america](https://www.linkedin.com/company/cama-north-america)



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As a complete systems integrator providing high speed, high level infeed, floor level and robotic palletizing solutions combined with systems engineering and turnkey installation capabilities, Columbia Machine has a solution to meet the needs of virtually any palletizing application. With expertise in Food, Beverage, Tissue Towel, Personal Care, Chemical, Bakery, Dairy, Snack Foods and more, you will not find a palletizing solutions provider offering more flexibility than Columbia Machine. Put us on your list of must see "exhibitors" to learn more about how Columbia Machine has become the largest palletizer solutions provider in North America (Per independent Interact Analysis 2019 Palletizer Market Study).

Superior Standard Safety Features

Columbia's Category 3, Performance Level D safety components include a Fortress trapped-key system, full height light curtains and a comprehensive fully integrated guard package. This safety package keeps your employees safe and productive.

Complete System Integration

Ensure your case conveyor, Columbia palletizer, pallet conveyor, stretch wrapper and related components exceed your expectations by choosing Columbia as your system integrator.

Load Transfer Solutions Stations

The LTS can help your plant become compliant with FSMA, HACCP & GMP by transferring product from one pallet type to another pallet type.

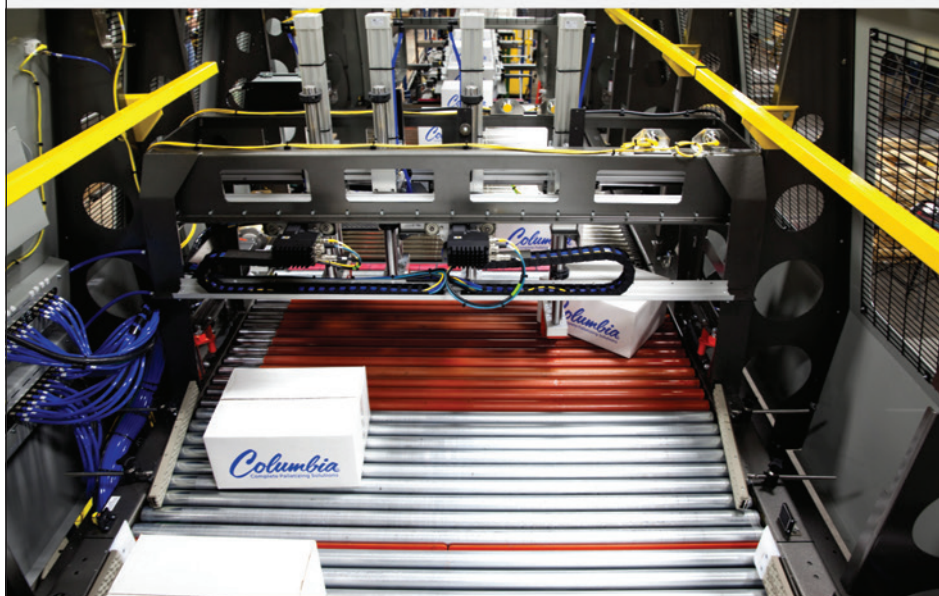


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Columbia
Complete Palletizing Solutions

Columbia
INNOVATION
DRIVEN BY
SAFETY / FLEXIBILITY / PERFORMANCE

Columbia's innovative and flexible palletizing solutions are engineered to meet the unique needs of any application. We manufacture high level, floor level and robotic palletizers, load transfer stations and provide complete system integration.



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COLUMBIA/OKURA LLC

301 Grove St., Vancouver, WA 98661

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www.columbiaokura.com/products

Safety, flexibility, and performance are key deliverables in providing the right solution for the application. Our team is skilled at listening to client needs and objectives to deliver innovative solutions. With hundreds of successful installations all over the world, we draw upon our years of experience and palletizing expertise for every project we touch.

SAFETY

We help our customers reduce overall operating costs by developing an ergonomically friendly system that will reduce labor intensive heavy-lifting and repetitive motion injuries. Our systems are also equipped with industry leading safety technology.

FLEXIBILITY

Our systems are designed to meet the flexible packaging and production needs our customers are seeking.

PERFORMANCE

Our strength is providing high performance systems, accomplishing speeds and throughput not attainable by others.



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4721



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Are you struggling with floor space, optimizing production rates or excessive down time?

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CTM Labeling Systems - Setting Global Standards, One Customer at a Time.

We are a leading manufacturer of pressure sensitive labeling equipment from semi-automatic applications to the most demanding high speed, high accuracy labeling solutions. CTM products are engineered and built in the United States. Custom systems include but are not limited to: Front/Back, High Speed Wrap, Pail, Hugger, Clamshell, Vial, Bottle, 3-Roller Indexer, and Forms Feed Labeling Systems.

The CTM 3600a Printer Applicator is derived from the industry leading 3600 Series. It is a rugged, highly versatile, high-speed, thermal transfer labeler used to print and apply PS labels to various products. Included is the remote HMI display for operator ease of use as well as an additional layer of password protection.

The CTM 360a Applicator is a high-speed labeler built for primary and promotional labeling opportunities and evolved from the industry standard 360 Series platform.

While at PACK EXPO- Visit us at booth # S-4120. Included with the 360a and the 3600a, will be our Top/Bottom Stainless Steel Labeling System and our 3600a Series Dual Action Tamp and Corner Wrap PA's. We will have our 360a Side Apply/Trailing Corner Wrap, a 360a Leading Edge Swing Tamp, and a 360a Merge. We will be featuring our newly enhanced 360a Integrated Loose Loop.

At CTM, supporting our customers before, during and after the sale is paramount.

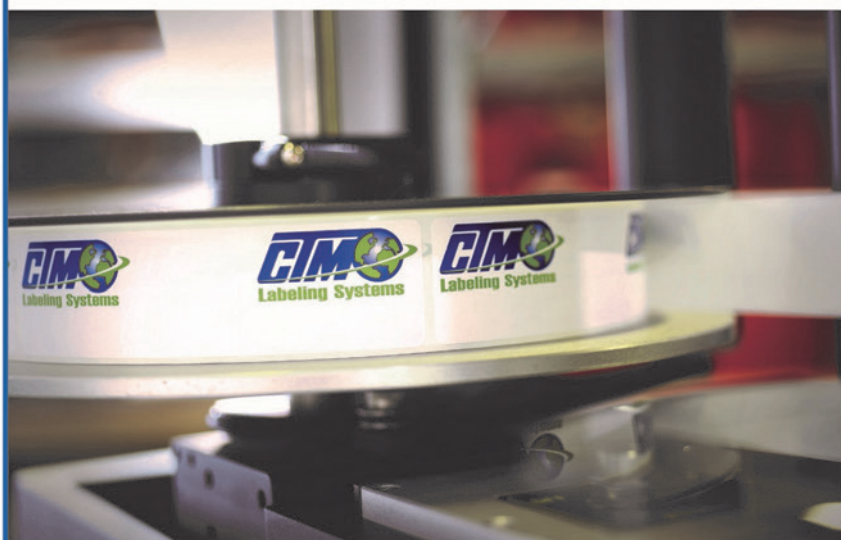
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S-4120



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S-4120

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DEKKA

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Dekka is a leading manufacturer of easy-to-load tape head systems that provide consistent seals for all brands of case formers, sealers and packers. Being one of the few companies dedicated to tape head manufacturing, we are able to keep a high standard of quality while providing a wide range of solutions.

With over 500 unique tape heads; Dekka will have the right tape head solution for you. The wide range of our products has been driven by the demand for the quality and reliability that comes with each Dekka tape head.

By using Dekka tape heads, you are able to ensure consistent sealing performance from all your case formers and sealers while reducing the number of spare parts needed on hand. The simple yet effective design of the DEKKA SE V3 also means a minimal number of wear parts and minimal training required since your maintenance staff only need to learn 1 tape head no matter the different brands of sealing and erecting equipment.

Dekka also hosts an array of entry level packaging machinery, which have been designed and tested to optimize with the Dekka tape heads. From the quick change DEKKA 100 semi-automatic case sealer, to the DEKKA 500 fully automatic case former, there machines require minimal floor space and can fit in almost any application.

E-mail or call us for a free consultation on how to switch over to Dekka tape heads for increased performance, reliability and cost savings on your packaging line.



See us at booth
N-5540

The PROMACH logo consists of three vertical bars of increasing height followed by the word "PROMACH" in a bold, sans-serif font.

Performance, Packaged

The DEKKA logo features a stylized orange circular icon with a white center, followed by the word "DEKKA" in a bold, dark blue, sans-serif font with a registered trademark symbol.

PRODUCT PROTECTED

A photograph of a DEKKA SE V3 tape head machine. The machine is silver and black, with a large roll of yellow tape mounted on top. It is shown in operation, sealing a cardboard box. The machine has "DEKKA" and "SE" printed on its side. The background is a plain, light-colored wall.

DOMINO NORTH AMERICA

1290 Lakeside Drive. Gurnee, IL. 60031

Phone: 800/444-4512 **Email:** solutions@domino-na.com

www.domino-printing.com

At Domino, when we're at our best we're not just selling printing machinery and software... we're selling our customers

SIMPLICITY

We sell smart, integrated solutions that keep production lines running smoothly. We sell on-demand support from Domino team members who help solve problems quickly.

And ultimately, we're selling our customers a more simple work day, giving them the space to invest in what matters most to them—building a career they can be proud of.

Less waste means more consistency.
Less risk means more compliance.
Less headaches mean more opportunity.
Less...is More

At PACK EXPO Chicago, we are excited to show you IN PERSON some of the new advancements in coding, marking and labeling to drive efficiency and support your sustainability goals.

We will have a presentation center within our booth showcasing topics ranging from sustainability on through to how best to reduce operator errors impacting the typical waste and rework experienced today.

We invite you to experience more, and why with Domino, "less is more".



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S-3506**

DORNER

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Phone: 262/367-7600

Email: info@dorner.com

www.dornerconveyors.com

At Dorner, we are Transforming Conveyor Automation by providing cutting edge solutions with best-in-class support. It's that commitment and history of proven excellence that has made the Dorner Brand a recognized leader in product handling for over 55 years. With our complete line of customizable stainless steel and aluminum conveyor automation systems, Dorner can provide solutions for almost any conveyor need.

Dorner's conveyors are designed to move product to the exact location, at the exact time and in the exact position it needs to be for the next phase of the production line. With benefits such as industry best product transfers and in-house belting capabilities, Dorner is leading the market in precision conveyance. This extremely accurate product control allows Dorner conveyors to easily integrate with robots, workers and equipment.

Dorner's Engineered Solutions Group's innovative solutions are custom designed to solve customers' unique needs. This full service team can provide systems for applications such as accumulation, indexing, positioning, product flow and much more.



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N-5725

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TRANSFORMING CONVEYOR AUTOMATION



- Innovative belt, modular belt and flexible chain conveyor solutions
- Custom packaging conveyor systems built to your exact specifications
- Designed to maximize your production output and decrease waste
- Highly experienced service team and distributor network provide complete post-sale support

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DURAVANT

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www.duravant.com

Duravant is a global engineered equipment company with manufacturing, sales and service facilities throughout North America, Europe, and Asia. Through their portfolio of operating companies, Duravant delivers trusted end-to-end process solutions for customers and partners through engineering and integration expertise, project management and operational excellence. Duravant's market-leading brands are synonymous with innovation, durability, and reliability.

The Duravant family of operating companies serve the food processing, packaging and material handling segments:

Foodmate is a leading poultry processing equipment manufacturer who has become the committed and reliable partner of major poultry processing companies worldwide.

Fischbein International, a global leader in sewing and sealing systems, designs and manufactures bag packaging equipment and complete systems.

FMH Conveyors designs and manufactures products and services for truck loading and unloading applications.

Key Technology is a global leader in the design and manufacture of highly intelligent optical inspection systems including digital sorting systems, vibratory conveying systems and process and preparation systems.

Marlen manufactures food processing equipment for pumping, portioning, size reduction and thermal processing under the Marlen, Afoheat, Unitherm and Carruthers brand names.

Mespack is an international manufacturer of flexible packaging solutions that engineers and builds high speed machinery for the world's leading consumer packaged goods companies.

Motion06 is the leading manufacturer of conveyor modules and material handling equipment for the ecommerce and airport segments.

nVenia designs and manufactures primary, secondary and end-of-line packaging equipment, featuring the product brands of Arpac, Fischbein, Hamer and Ohlson.

QC Industries designs and manufactures high quality, low-profile conveyor systems for industrial, sanitary and automation applications.

WECO designs, manufactures, and services optical sorters and moisture monitoring systems for growers and food producers worldwide.

Wulftec is the premier brand for fully customizable load containment and automation solutions for end-of-line packaging applications.

Duravant's aftermarket program, SupportPro, offers certified technicians to provide equipment support, preventive maintenance, emergency service, machine audits and end-user training to ensure optimal performance and longevity of equipment for best total cost of ownership.



**See us at booth
S-3547**

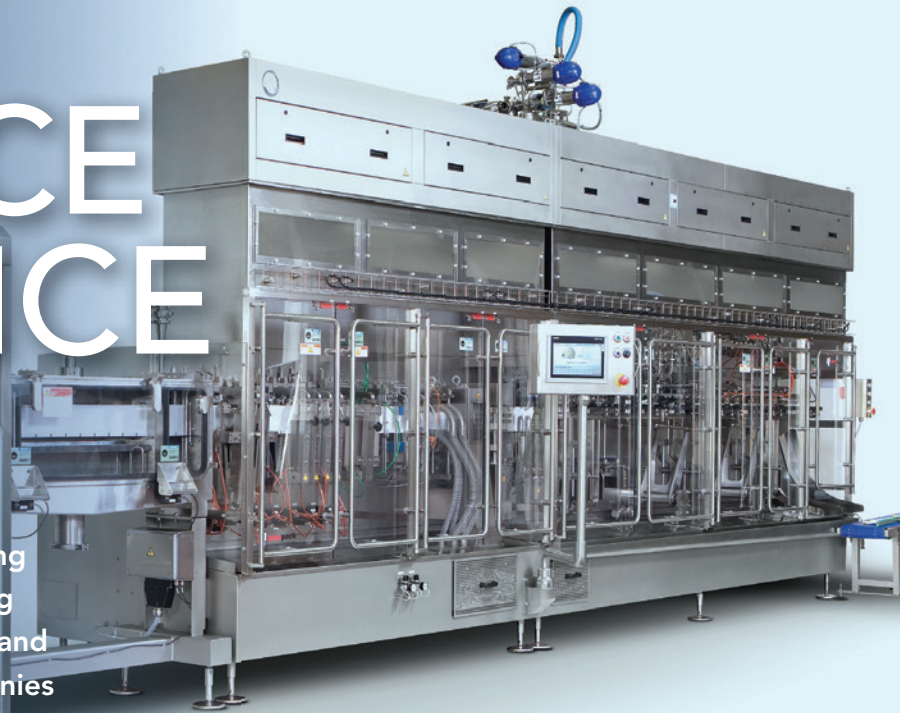


DURAVANT

EXPERIENCE EXCELLENCE

Customers worldwide count on Duravant's portfolio of premium engineered automation solutions spanning the food processing, packaging and material handling segments. Backed by Duravant Integrated Solutions and SupportPro, the Duravant family of operating companies optimizes safety, productivity, efficiency and connectivity for the world's producers and movers of high demand goods.

Come Experience Excellence at Pack Expo Booth #3547.



THE DURAVANT FAMILY OF OPERATING COMPANIES

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FISCHBEIN

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Phone: 1-800-835-9344 Email: info@eastey.com

www.eastey.com

Eastey is a leading manufacturer and supplier of heavy-duty shrink packaging equipment, case erectors, case tapers, and other packaging equipment.

Eastey's shrink packaging products include a complete line of L-sealers, sleeve wrappers, shrink tunnels, and bundling equipment. Eastey also supplies a complete line of case erectors and case tapers, from entry-level bottom- and side-belt tapers to fully automatic and random-size case tapers.

Eastey has been in business for over 30 years and has an installed base of over 15,000 packaging systems. Eastey products are sold through a global network of authorized dealers, fully trained and capable of installing, training, and servicing our equipment. At our manufacturing facility in Big Lake, Minnesota, we take pride in manufacturing equipment that is First in Quality – Built to Last. We maintain an extensive inventory of replacement parts and offer prompt technical support when needed.

Eastey continues to focus on its core purpose to “help companies deliver products to the world.” An expanding line of integrated products and services reflects Eastey's commitment to meeting new needs and challenges and ensuring that customers have reliable solutions for their packaging applications.

Eastey, Squid Ink, and American Film & Machinery (AFM) are all divisions of Engage Technologies Corporation. Eastey (eastey.com) is a leading manufacturer of heavy-duty shrink packaging equipment and automated case sealing systems for packaging applications. Squid Ink (squidink.com) is a manufacturer of coding and marking systems for product identification and traceability, providing superior quality inks and low-maintenance printing equipment. American Film & Machinery (afmsleeves.com) supplies shrink labelers and tunnels, shrink sleeves, and tamper bands.

Engage Technologies Corporation is headquartered in Brooklyn Park, MN, with facilities in Big Lake, MN, Spring Lake Park, MN, The Hague, Netherlands, and Shanghai, China. The Company continues to expand sales and services, with authorized distributors strategically located throughout the U.S. and the rest of the world.



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S-3774c



THE ERX-15 AUTOMATIC CASE ERECTOR

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EBS INK-JET SYSTEMS USA, INC.

1840 Industrial Drive, Suite 200 Libertyville, IL 60048

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www.ebs-inkjet-usa.com

A leading manufacturer of innovative contact-free industrial ink-jet printers, printing systems, and supplies, EBS Ink-Jet Systems USA offers packaging industry customers efficient, accurate, and clean ways to mark, label, and code products.

EBS Ink-Jet printers include wireless, portable, hand-held printers and continuous in-line (large character and small-character) printers that:

- print on virtually any package or product.
- replace outdated and manual marking methods.

EBS Ink-Jet Systems USA's parent company, EBS Ink-Jet Systeme, has an over 40-year history of ink-jet coding innovations and expertise. Founded in 1977, EBS Ink-Jet Systeme, Cologne, Germany, pioneered the development of "drop-on-demand" ink-jet coding. Since that time, EBS has continued to advance and improve ink-jet coding technology. Today, they remain a leading name in ink-jet coding throughout Europe.

Founded in 2008, EBS Ink-Jet USA is centrally located in Libertyville, Illinois, a Chicago suburb. Serving the ink-jet coding needs of all North and Central America, EBS Ink-Jet USA prides itself on consistently meeting four significant customer goals:

- providing high-performance products
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- delivering exceptional service and support
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EBS Ink-Jet USA's disruptive innovation uproots conventional thinking on existing product marking methods and creates "no longer status quo" bottom-line process improvements.



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EBS Ink-Jet USA's disruptive innovation uproots conventional thinking on the existing product marking and coding methods and creates "no longer status quo" bottom-line process improvements. LEARN MORE AT: ebs-inkjet-usa.com • 847-996-0739

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Our purpose is to help our customers solve their packaging needs and provide solutions which increase efficiency, throughput, and ROI



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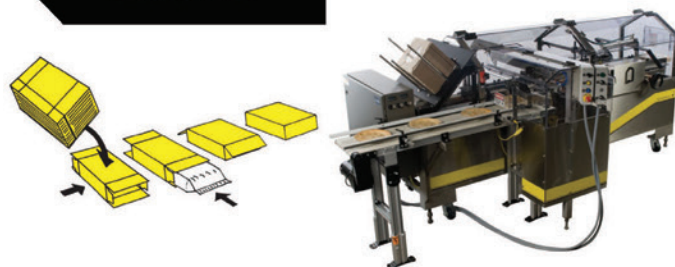
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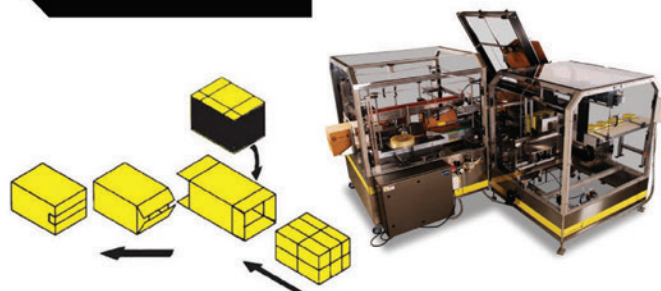
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Let's face it, in today's economy we need solutions that **SAVE PEOPLE MONEY.**

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STRONG In lab tests it was able to meet or exceed the strength of most all traditional wood crates. In practical use, our customers have come to rely on the strong performance of Ecorrcrate to meet and exceed their expectations.

LIGHT The ECORRCRATE is typically less than 1/2 the weight of comparable wooden crates saving additional money on freight.

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CUSTOMIZABLE The ECORRCRATE is made to your specifications and can be made in almost any size or configuration!

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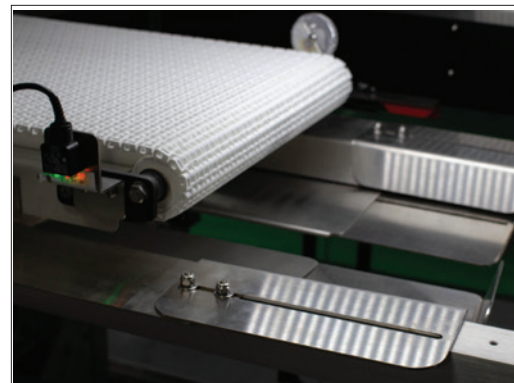
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Since 1979, Fallas Automation has manufactured simple, compact case packers and automation support equipment. Our goal is to provide our customers with stress-free automated case packing lines, so you can increase your production and improve your bottom line.

Fallas Automation celebrated our 40th anniversary in 2019. Dedication to machine quality and customer service are key reasons Fallas has been successful for so long. Fallas started producing semi-automatic case packers in the 1980s, then adapted to the rapidly changing technologies and expanded our catalog of machinery. Today, we provide fully integrated end of line case packing solutions for a variety of products. Markets, machinery, and customer needs have changed. Our heritage of constructing machinery to the highest quality standards and providing the most value for our customers has stayed constant.

Fallas Automation systems can accommodate a variety of plant layouts, products, and customer needs with modular units that provide a successful end of line packaging system. With case erectors, case packers, case sealers, and product handling solutions, we set up each purchased system in our factory in Waco, Texas, before we disassemble and ship to your facility. This allows you to have full confidence that your system works as expected and provides training opportunities for your operators before the machine has arrived at your facility.



FALLAS
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- The new DR-3iB/6 STAINLESS is FANUC's first stainless steel food-grade delta robot for picking and packing primary food products. Rated IP69K, the robot meets USDA and FDA food safety standards.
- Expanded SCARA robot family has six models including two environmental options rated IP65 to withstand dust and liquids.
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- The M-20iB/25C robot with an enclosed design and IP67 rating to withstand harsh environments.
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FANUC offers application software for packaging and palletizing, integrated iRvision® and tracking features, ROBOGUIDE simulation, Dual Check Safety (DCS), and Zero Down Time (ZDT) to help customers monitor and manage their automation.

When you're ready to automate, FANUC and our team of Authorized System Integrators are here to provide an efficient solution for your plant or fulfillment center. Let's discuss how we can help you overcome production, supply chain and labor challenges by improving your OEE, flexibility, sanitation and safety. Also, we are committed to "Service First" providing customers parts and support for the life of their FANUC products. Discover the benefits of our robotic solutions!

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FOCKE & CO provides customized packaging solutions. The company activities are concentrated in two divisions, Tobacco and General Packaging for hygiene & tissue as well as food & consumer.

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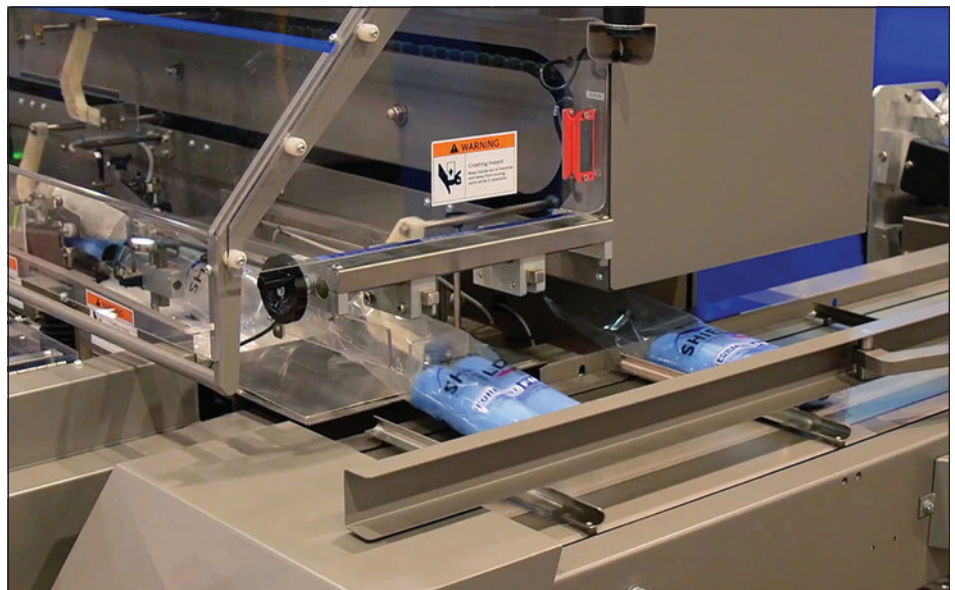
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Hamrick Packaging Systems (formerly Hamrick Manufacturing & Service) is a family-owned manufacturer of secondary packaging equipment specializing in top-load rigid container applications. In addition to our standard equipment offering of case erectors, servo drop packers, gantry pick & place case packers, top sealers (tape and glue), uncasers, lane dividers, and other specialty equipment - Hamrick has diversified into robotics and systems integration - our two largest areas of growth. Through a diverse partner group, and while incorporating many of our own designs, we can be flexible, cost-effective and thorough when it comes to assisting customers with designing secondary packaging lines. Let our Systems Group be a resource for your future automation efforts, and utilize over 100 years of combined experience in the packaging industry.

Core Equipment

- Drop Packers (Economy + High Speed)
- Pick & Place Case Packers (Servo Gantry)
- Case Erectors (Tape)
- Case Sealers (Tape, Glue, Combo)
- Robotic Palletizers (RSC, Bag, Pail)
- Robotic Case Packing
- Robotic Partition Inserting
- Robotic Case Erecting
- Robotic Uncasing (Case/Tray)
- Robotic Depalletizers (Bulk)
- Collaborative Robotic Applications
- Uncasers (VQC, Pick & Place)
- Lane Diverters
- Robotic Erect/Pack/Seal All-In-One

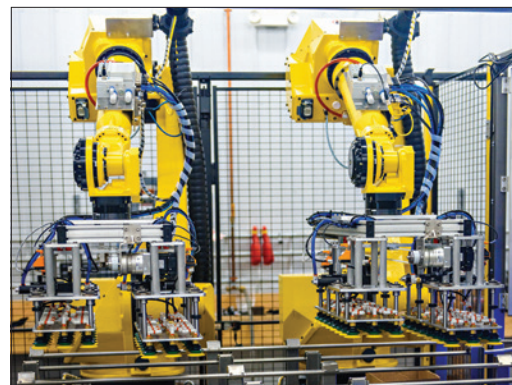
Markets Served

- Food & Beverage
- Chemical/Household Cleaning
- Agricultural
- Automotive/Oil
- Personal Care
- Aerosol
- Brewery/Distillery/Winery
- Plastics/Glass

Company News

- Moved into brand new 65,000 square foot manufacturing facility in Kent, OH
- Won FANUC ASI Growth Awards in 2020 and 2021 and a Sales Leadership Award in 2021 for 25 arms sold and 212% growth in robotics.
- Eclipsed 100 new Model 600-S and 600D-S All Servo Case Packers sold since 2020

We look forward to showing you a new tandem servo case packer for reshipper cases, a hybrid case sealer, and multiple robotic options in our 3400 square foot booth at Pack Expo!



See us at booth
S-2006

We've got a lot to talk about.



HAMRICK

PACKAGING SYSTEMS

THE FIRST CHOICE IN SECONDARY PACKAGING



1436 Martin Rd. • Mogadore, OH 44260
Toll Free: (800) 321-9590
sales@hamrickmfg.com • hamrickmfg.com



COME VISIT US! BOOTH #S-2006
October 23-26, 2022
McCormick Place | Chicago USA



HEAT AND CONTROL, INC.

21121 Cabot Boulevard Hayward, CA 94545

Phone: 800-227-5980

Email: info@heatandcontrol.com

www.heatandcontrol.com

Heat and Control®, a world-leading equipment manufacturer, offers the latest technology and the highest quality equipment for processing, coating and seasoning, conveying, weighing, packaging, inspection, and controls/ information systems. Established in 1950, we have 11 manufacturing facilities, 12 testing centers, and more than 30 offices around the world. Our brands include FastBack® (horizontal motion conveyors and on-machine seasoning), Mastermatic (fryers), and Spray Dynamics® (coating and seasoning application systems), and we partner with other global manufacturing leaders, including Ishida (weighing packaging and inspection) and CEIA® (metal detection). We offer a single machine or can integrate several components into a complete system and assume single-source responsibility.

Food Processing—From frying and baking to raw produce handling, energy-saving, and pollution control. Use our expertise to create products that are cooked to exact specification, with high quality and great flavor. Choose from our vast range of integrated processing solutions for food products including snack foods, prepared foods, meat, poultry, and seafood.

Seasoning Application—Our comprehensive range of seasoning solutions for on-machine or process area deliver top performance, efficiency, application accuracy, and of course, great flavor. Maintaining seasoning application accuracy means improved product consistency, reduced waste, and higher yield.

Conveying and Product Handling—Everything you need to move your product from start to end. We provide a wide variety of innovative and dependable conveying and product handling systems to move product through the line as efficiently as possible.

Weighing/Combination Scales—Trust the world leader in weighing technology. Since 1893, Ishida has revolutionized the industry with inventions like the ultra-precise computer combination weigher (CCW). Whether you need entry-level or advanced equipment, we can provide the exact match for your needs.

Packaging—From tray and container filling to fully automated and integrated, Ishida snack food packaging systems provide end-of-line solutions that give you performance advantages in the busiest section of the line. Drive rapid ROI and increased productivity with a packaging system that focuses on performance and efficiency.

Inspection and Quality Assurance—Protect your consumer and your equipment with industry leading package testing and contaminant detection technology, including Ishida x-ray machines and checkweighers, and CEIA metal detection equipment. Our broad range of solutions lets us design the most appropriate machine or combination inspection system for your application.

We assist manufacturers with equipment for all types of food, pharmaceutical, and non-food products, as well as provide pre- and post-sale technical support, including applications assistance, engineering, installation, parts, service, and training to maintain peak efficiency.



HEAT AND CONTROL



See us at booth
N-4706

HEAT AND CONTROL

Helping you bring your best products to market.

Delivering Results.

With Heat and Control, you have a partner with the scale to support your success, the innovation to advance your operations, and a commitment to quality that will help you offer better products for consumers.

PROCESSING AND PACKAGING SOLUTIONS

- Food processing systems
- On-machine and process area seasoning application
- Conveying and product handling
- Multihead/combination scale weighing and filling
- Snack bagmaking and case packing
- Metal detection and x-ray
- Check weighing and seal checking
- Controls and information systems

We are successful when you are successful. That's why we apply creativity, engineering excellence, and determined perseverance to every project to help our customers get the performance their business demands—whether measured by flavor, efficiencies, sustainability, improvement, or innovation.



Oct. 23-26, 2022
Booth N-4706, McCormick Place
Chicago, IL USA

info@heatandcontrol.com | heatandcontrol.com



ID TECHNOLOGY

5051 N. Sylvania Ave., Ste. 405 Fort Worth, TX 76137

Phone: 888-438-3242 Email: IDT@ProMachBuilt.com

www.idtechnology.com

As part of ProMach's Labeling & Coding business line, ID Technology, along with EPI, Panther, Greydon, and Code Tech, integrate industry-leading solutions for labeling automation, coding, marking, and label converting within the food, beverage, pharmaceutical, personal care, and household and industrial goods industries. With advanced systems for applications in primary and secondary packaging, as well as distribution and fulfillment environments, our solutions provide accurate labeling and coding on virtually every substrate in every market.

ID Technology – Best-in-class labeling, coding, and marking automation solutions support a variety of product identification needs within your primary and/or secondary packaging operations. ID Technology's diverse line of products include label printers, label printer applicators, laser coding & marking systems, thermal inkjet (TIJ) printers, continuous inkjet (CIJ) printers, and thermal transfer overprinters (TTO).

As a single source provider of labeling solutions, ID Technology also manufactures and supplies flexographic, digital, blank, and shell labels. Supported by our multiple regional converting facilities across the United States and Canada, we offer fast, responsive service and support so our customers always operate at peak efficiency.

EPI – Integrated pressure-sensitive label applicators and label printer applicators that apply primary, secondary, and reclosable labels to numerous types of packaging – including those for the largest consumer snack food and bakery brands in North America. EPI's labelers – whether as a standalone applicator or custom solution – integrate seamlessly with new or existing equipment to apply any type of label to your pouch, horizontal/flow packaging, and more.

Panther – Industry-leading labeling automation solutions that are especially tailored to meet the demanding needs of e-commerce and other fast-moving industries that utilize warehouse, distribution, fulfillment centers, or third-party logistics (3PL) operations. Panther's intelligent and integrated labeling automation solutions range from economical entry-level systems for low-volume operations to all-electric high-speed systems capable of supporting complex supply chain management operations.

Greydon – Full-range of standard or custom printing system solutions that include digital printers, flexographic rotary printers, thermal transfer printers, thermal inkjet printers, and wet ink reciprocating imprinters. Our range of flexographic printers provide the perfect solution for printing nutritional facts, high quality barcodes, or total product information directly onto your packaging.

Code Tech – Specializing in thermal inkjet (TIJ) printing, Code Tech provides date coding, track and trace, serialization, and anti-counterfeiting solutions for the pharmaceutical, medical device, food and beverage, protein, building materials, and consumer product industries.



 **ID TECHNOLOGY®**



**See us at booth
N-5544**

NEW PRODUCT DEMO DAYS

LABELING & CODING SOLUTIONS IN ACTION!

Sign up to stop by booth #N-5544 and learn about our NEW innovative automated Labeling & Coding solutions from ID Technology, EPI, and Greydon.

L&C

**LABELING
& CODING**

MFlex™ Pressure-Sensitive Labeling Systems

Sunday, October 23rd at 2:00pm

Presented by  **EPI**



High-Speed Case, Tray, and Pallet Labeling

Monday, October 24th at 11:00am

Presented by  **ID TECHNOLOGY**



High-Resolution Case Coding and Marking

Monday, October 24th at 2:00pm

Presented by  **ID TECHNOLOGY**

High-Resolution Digital Packaging Printing

Tuesday, October 25th at 11:00am

Presented by  **GREYDON**



Learn More and Reserve Your Spot Today!

www.ProMachLabelingAndCoding.com



ITP USA INC.

30 Chapin Rd., Suite 1205, Pine Brook, NJ 07058 United States

Phone: (973) 396-8543 Email: sales@itpusa.us

www.itpusa.us

It has been 50 years since ITP, in a building for agricultural use next to an old furnace in the northern Italian countryside, has started its business.

At that time it counted 8 collaborators and a nascent extrusion department. Today ITP is a modern international reality for the production of flexible polyethylene films for packaging and surface protection.

WHERE WE STAND OUT

Flexibility and continuous experimentation in terms of applied research are part of our DNA.

The users of our films are food companies - pasta, cured meats, meats, cheeses, ready and / or frozen foods - beverage companies, household cleaning and personal care, paper mills. The industrial sector complete the markets in which we are present, including that, very specific and niche, of the protection of surfaces in thermal plastic materials.

The flexibility and speed that distinguish our way of working allow us to respond to both requests of small and medium-sized enterprises and multinationals. Customers, machine manufacturers and raw material suppliers know they can count on our quality and speed of reaction in the development of any new project.

OUR BRAND "PACK REVOLUTION"

Pack Revolution is the ITP brand that refers to our innovative capacity and the technological revolution we have started many years ago. It is about sustainable and recyclable packaging, which are proposed as pioneers in the green revolution in packaging. This revolutionary concept of sustainability was born from the use of raw materials from renewable sources, the use of industrial as well as post-consumer waste, the possibility of recycling the packaging after its use, the reduction of the quantity of plastics and the certified compostability.

Such are in fact,

- in the frozen food sector, ITP's compostable films;
- our Paper G Series, the so-called "liners", which adhere to cardboard trays to ensure a barrier to humidity and gases that cardboard alone wouldn't be able to guarantee, protecting the food from any contamination and the premature wasting. This packaging system reduces the use of plastic in the finished package and it is recyclable together with paper;
- the monomaterial and therefore recyclable films,



See us at booth
W-21027
Containers
and Materials
Pavillon



Compostable film for frozen food

Liner film for thermal lamination

Recyclable monomaterial film for pouches

Thermoforming monomaterial film

Invisible vacuum skin film

VISIT US



Booth W-21027
Containers & Materials Pavillon
West Building



INNOVATIVE PACKAGING SOLUTIONS

ITP USA Inc.

30 Chapin Rd., Suite 1205, Pine Brook, NJ 07058

www.itpusa.us

JLS AUTOMATION

20 Innovation Drive • York, PA 17402 • USA

Phone: 717/505-3800

Email: sales@jlsautomation.com

www.jlsautomation.com



JLS Automation supplies simple, hygienic robotic packaging solutions for the food industry that solve complex packaging challenges. Designed for sanitary environments, our custom vision-guided primary & secondary robotic packaging systems are user-friendly, fast to start-up, & ensure both worker & food safety.

Several patents have been awarded for our proprietary robotic tooling & high-speed leak detection systems. Our hygienic, vision-guided robotic packaging systems are made to get wet, simple to integrate into your packaging line & never get tired!

Talon® Primary Loading Systems - Pick-and-place systems for loading thermoformers, flow-wrappers, vacuum skin packs, trays (MAP or foam) & more.

Osprey® Case Packers - Accurate & gentle loading of thermoformed packs, bags, SUPs, trays, chubs & other primary packs into standard RSC or retail-ready cases.

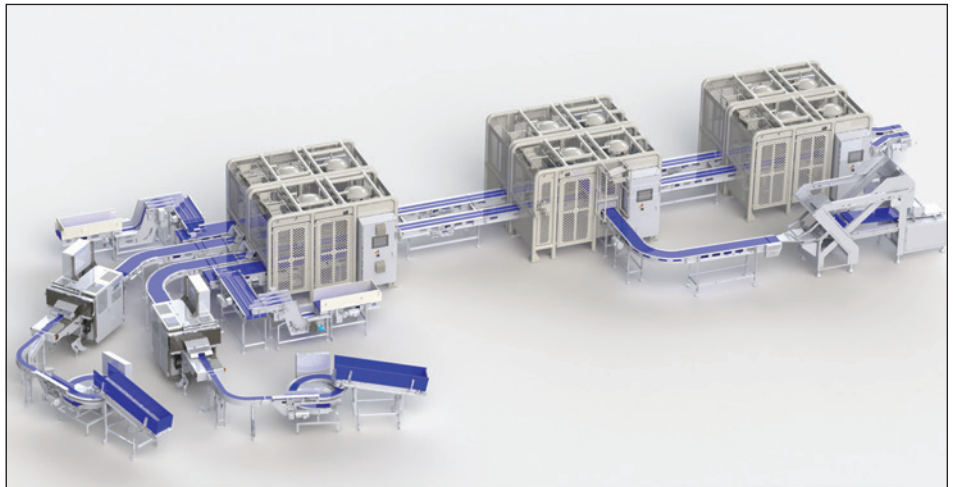
Peregrine® Vision-Guided Cartoning Solution (patent pending) - Loading of tri-seal & other cartons has never been easier or more efficient. Full carton control from forming to closing. Elimination of conveyor transfers. Robotic loading & closing. And, all within a small footprint.

Harrier Bacon Draft Loading System - Automatically load bacon drafts into thermoformers while saving floor space, solving labor gaps & increasing productivity. This highly-automated system replaces the typical complex series of conveyors & devices that are used for this process.

Sandwich Assembly System - Automatically build various sandwiches, accurately stacking each component from the bun/bread to meat, cheese & other ingredients. Lines can include slicers, pick & place robotics, flow wrappers or thermoformers & case packers.

Integrated Systems - We take system responsibility for your entire line from concept to design, integration, FAT & installation.

JLS View - Virtual service calls utilizing Microsoft HoloLens 2 technology that saves time & gets your line back running fast & efficiently.



DO MORE WITH LESS

JLS® is the trusted source for sandwich assembly. Full lines automatically build sandwiches, accurately stacking each component from the bread to protein, cheese and other ingredients. Fill labor gaps. Enhance food safety.



See us at booth
S-2564



TALON®
PICK & PLACE SYSTEM

EXPERIENCE FOR YOURSELF AT
jlsautomation.com/talon | 717-505-3800

LABEL-AIRE, INC.

550 Burning Tree Rd. Fullerton, CA 92833 United States

Phone: (888) 664-8111 Email: info@label-aire.com

www.label-aire.com

Label-Aire, the world's leading manufacturer of pressure-sensitive labeling equipment for over 50 years, now makes pressure-sensitive labeling easier than ever. With our new generation technology, we now offer the industry's easiest set-up, troubleshooting and change-over, fastest line speeds, and most reliable operation. The result is lower operating costs and increased productivity. But don't just take our word for it. Our equipment can be found in the plants of blue chip companies around the world. At this year's PACK EXPO, Label-Aire will be displaying its full line of primary and printer applicators and inline systems. Come meet our staff and let us show you how to make labeling easier.

Easy solution for tough applications.

No matter what your application, Label-Aire has the expertise to get the job done right - the first time. With our New Generation Applicators, we are able to provide the industry's broadest range of labeling equipment including print & apply and primary applicators, rotary and inline system utilizing different application methods, line speeds, and custom designs.

Easy to do business with.

Behind every Label-Aire machine stands the industry's most knowledgeable distributor network and service team, working to keep your line running. Our strategically located distributors are staffed with factory trained sales professionals and service technicians ready to assist you - from sales and installation to training and parts support.

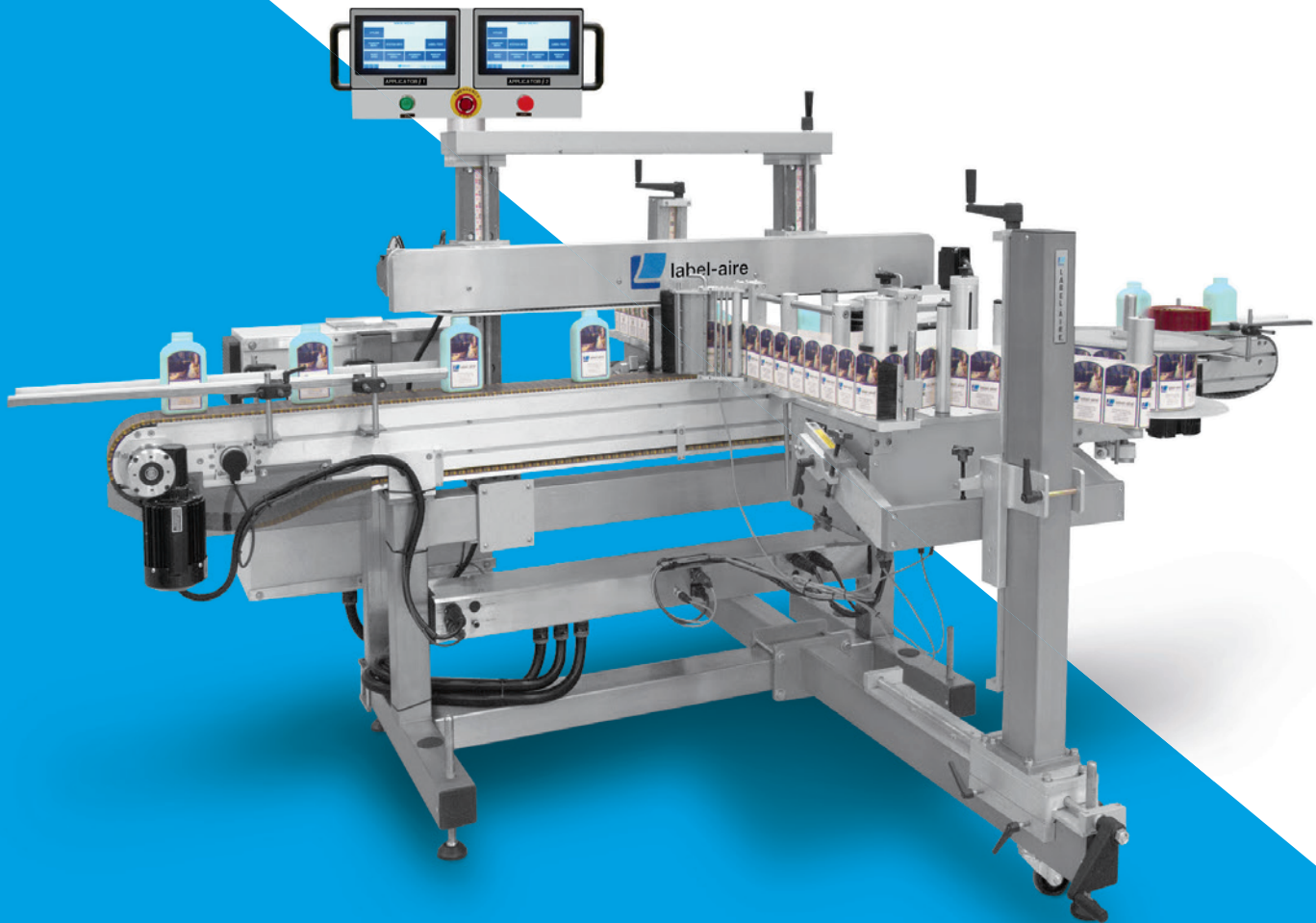
Industry Experience:

Auto Parts • CD/DVD • Coupon/Promotional • Direct Mail • Electronics • Food & Beverage • Health & Beauty • Petroleum/Chemical • Pharmaceutical/Nutraceutical • Supply Chain & Distribution



See us at booth
S-3014

Preventing headaches for over 50 years.



For speed and reliability, the Inline 6000-N is the perfect front/back labeling solution. With its zero downtime option, labels can easily be changed without stopping production. Contact us to find out about our trouble-free labeling solutions.

Built by the pros and trusted by the best.



label-aire.com | 888.664.8111

630 Douglas St. Uxbridge, MA, 01569

Phone: (800) 217-9100 Email: info.us@lenze.com

www.lenze.com

Lenze

Lenze is a leading automation company for the machine building industry and a global specialist in Motion Centric Automation. As a systems supplier with solutions competence, Lenze provides high-quality mechatronic products and packages; powerful systems consisting of hardware and software for machine automation; as well as digitalization services in areas such as big data management, cloud or mobile solutions, and software for the Internet of Things (IoT). We are a reliable solutions partner supporting the entire machine development process from initial idea to aftersales, from control systems to drive shafts.

Engineering made easy – In order to deliver the ideal solution for your machine tasks, Lenze advises and supports you through all five phases of the engineering process:

- Developing ideas
- Drafting concepts
- Implementing solutions
- Manufacturing machines
- Ensuring productivity

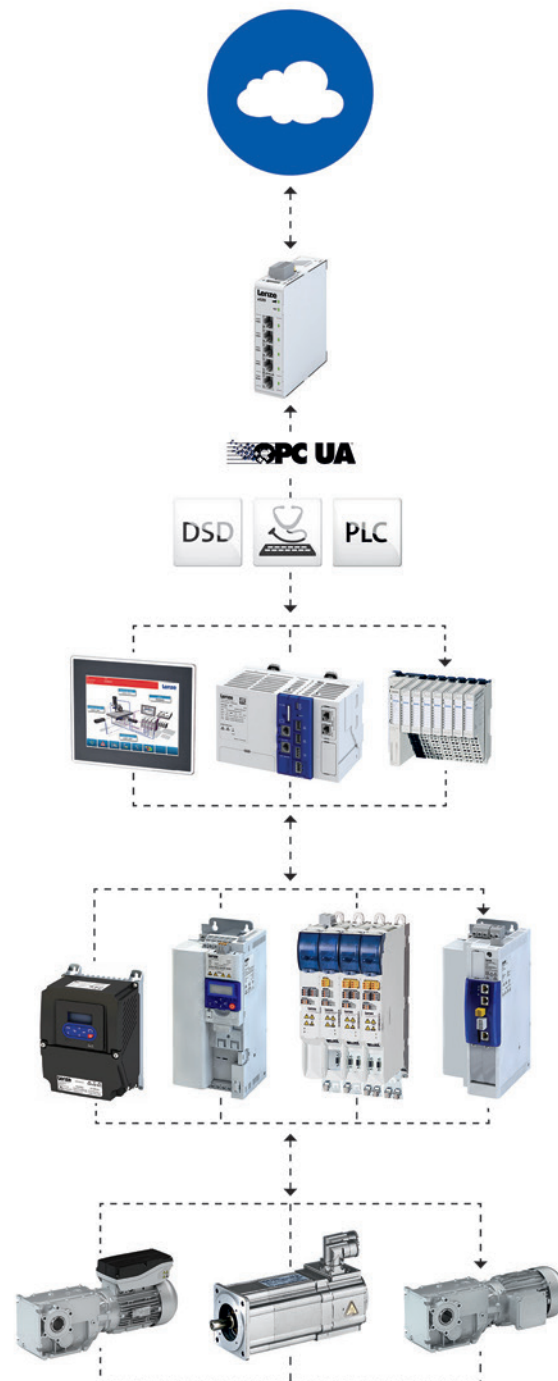
If you are looking to implement cutting-edge machines and plant concepts, or modernize existing installations, you can trust Lenze. Our experts help you select the right products; design specific drive solutions; plan their implementation; and successfully complete the commissioning process.

Lenze is a respected solutions provider to industries including: consumer goods packaging, converting and printing, automotive, material handling and logistics, robotics, and commercial pumps/fans. With a global network of engineers, sales representatives, and manufacturing facilities, Lenze is well-positioned to meet the motion control needs of customers worldwide. Lenze Americas, the American subsidiary of Lenze SE of Germany, is headquartered in Uxbridge, Massachusetts.



See us at booth
N-5239

The Lenze Automation Platform.



MAMATA ENTERPRISES, INC.

3210 59th Dr E Unit 101 Bradenton, FL 34203 United States

Phone: (941) 205-0227 Email: sales@mamatausa.com

www.mamatausa.com

A MUST SEE AT THE PACKEXPO THIS YEAR

Increasing productivity is at the core of everything you as a packager / end user do to achieve OEE targets. That's why, speed and change-over processes are game changers in the manufacturing world today!

At Mamata, we understand your needs and work to provide you solutions that help you increase your productivity without sacrificing changeover times and efficiency.

This year at the PackExpo show, we are introducing 4 new machines. All 4 machines are based on conventional servo technology. They are designed to offer you the best OEE in the Industry.

The key features of these machines address the most crucial areas for the food packaging industry in terms of efficiency, hygiene, product quality and flexibility.

All machines will be demonstrating MAMATA's unique capability to handle recyclable / mono material films that helps you address the growing demands of sustainable / recyclable mono-material packaging.

At Mamata's booth, you will witness the game changing combination of recyclable packaging ability combined with high speeds and quick change-over processes in the food packaging industry.

OEE is at the core of everything we do to rise above our competition.

Call us today on (941) 205 0227 to set-up your appointment at the show. You can also write to us on sales@mamatausa.com



See us at booth
#S-2536

MAMATA

Total Solutions For Flexible Packaging

Unveiling
4
New Machines



Booth # S-2536
South Hall

October
23-26, 2022

McCormick Place,
Chicago, Illinois USA

Machines you can trust.
Performance you can rely on.
Technology that increases your
productivity & efficiency.

For more information :

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ENTERPRISES, INC.

+1 941 205 0227
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www.mamata.com



MARCHESINI GROUP USA

43 Fairfield Place • West Caldwell, NJ 07006 • United States

Phone: 973.575.7445

Email: sales@marchesiniusa.com

www.marchesini.com

Marchesini Group USA is a leading supplier of primary and secondary packaging solutions to the pharmaceutical, nutraceutical, and cosmetic industries. Established in 1992, our North American headquarters supports the USA, Puerto Rico, and Canada and is backed by 2,300 Marchesini staff members worldwide.

All precision packaging machinery available through meet the highest level of quality certification using established production benchmarks and testing procedures. No single element of our business is as important to our reputation and our success as quality... and it has never been compromised.

A full range of equipment is offered including:

Blister and Deep Draw Thermoformers; Bundlers; Cartoners; Horizontal & Vertical Casepackers; Depacker; Box & Tray Formers; Jar Fillers; Labelers; Track & Trace/Serialization Solutions; Aseptic Fillers for Vials, Ampules, & Disposable Syringes; Liquid Fillers/Cappers; Palletizers; Washing, Depyrogenation Tunnels; Strip Machines; Tray Packers; Tube Fillers; Wrapping/Banding/Overwrapping Equipment; Wallet Packaging; Needle Safety Device Assembly; Inhaler Assembly and Test Equipment; Turbo-Emulsifiers; Melters; Filling & Closing Machines; Filling/Sealing Stickpack & Sachet Machines; Electronic Counting & Filling Machines; Pharmaceutical Inspection Systems; Stainless Steel Product Containers & Tanks for Pharmaceuticals & Cosmetic; pharmaceutical lab equipment for capsules, tablets, suppositories.

Visit us at www.marchesini.com for Marchesini Group's full line of equipment and services.



See us at booth
W-17005



**MARCHESINI
— GROUP —
USA**

COMPACT 24

COUNTING, FILLING AND CAPPING MONOBLOCK MACHINE FOR TABLETS

- HIGHER EFFICIENCY
- RAPID CHANGEOVER
- COMPACT FOOTPRINT
- MAGNETIC TRANSPORT

The Compact 24 is a monoblock machine integrating the critical process of counting tablets or capsules.

This monoblock design includes:

- Higher production efficiencies thanks to magnetic transport system that optimize and simplifies processes;
- Product count verification with inline check weighing;
- Easy cleaning, fast changeover time;
- Single tablet reject capability;
- 2D, 3D & NIR product vision inspection;
- Servo driven rotary capper with torque control.



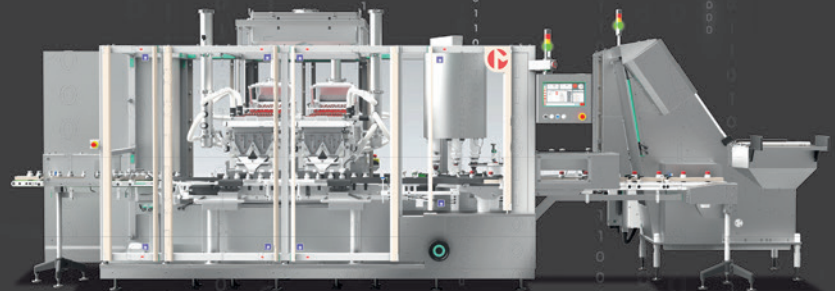
Visit us at:



CHICAGO, USA

BOOTH W-17005

23 - 26 October 2022



marchesini.com

MASSMAN COMPANIES

1010 E Lake Street, Villard, MN 56385 USA

Phone: 320/554-3611

Email: sales@massmanllc.com

www.themassmancompanies.com

Massman Companies have been a leader in the design and manufacture of easy-to-operate, highly innovative packaging equipment for more than 40 years. We are committed to providing the highest quality packaging solutions, whatever the effort required. Massman Companies include the below companies which give us experience in a broad array of packaging solutions. We all share the same dedication to designing robust machines and working with the customer to provide a solution that is perfect for their needs.

Massman Automation specializes in End of Line Packaging including:

- Case Packers
- Pre-Made Pouch Fillers
- Palletizers
- Tin Tie Machines
- Case Erectors & Sealers
- Pleated Filter Automators & More

Ideal Paise is an expert in liquid filling solutions from pints to drums/totes including:

- Net Weight Liquid Fillers
- Volumetric Fillers
- Drum Fillers
- Palletized Drum & Tote Fillers & More

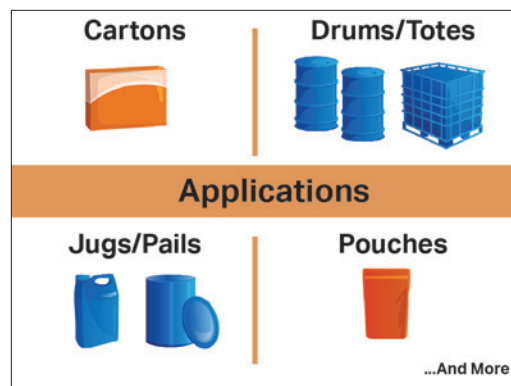
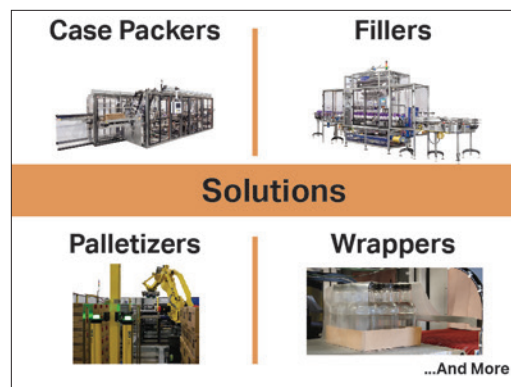
DTM manufactures and remanufactures packaging and bottling machines for entire production lines including:

- Walking Beam Flow meter Fillers
- Cappers
- Accumulation Tables
- Full Line Integration & More

EDL is a specialist in shrink wrapping and bundling including:

- Shrink Wrappers
- Shrink Bundlers
- Roll Wrappers
- Tray Former/Loaders/Wrappers
- Specialty Wrappers & More

New England Machinery is the newest member of Massman Companies family. They have been in business over 46 years offering packaging equipment designed to achieve reliable, high-performance production. Visit them at booth 2530 and learn about their complete portfolio of unscramblers, cappers, orienters, lidders & more.



The
Massman
Companies™



See us at booth
S-2158

MATRIX PACKAGING MACHINERY

650 N Dekora Woods Blvd Saukville, WI 53080

Phone: (262) 268.8300 Email: Matrix.Info@ProMachBuilt.com

www.MatrixPM.com

Matrix, a leader in vertical form fill seal packaging equipment, delivers rugged, well-engineered, easy-to-use packaging systems backed by a large world-class service and parts teams. Our VFFS machines can produce a variety of bag styles, such as pillow, gusseted, flat bottom, quad, and modified doy. We have the ability, knowledge, and commitment to tailor highly efficient and profitable packaging systems for our customers on a global scale. We work collaboratively, as part of a team with our customers to assess and determine their needs to customize a world class packaging solution specific to their project.

Our customers find packaging success in a variety of markets, including bakery, candy, coffee, tea, disinfectants & sanitizers, dressings, sauces, cold chain, dried/frozen meats, IQF, fruits & vegetables, liquid products, pet foods/treats, nutraceuticals, snack foods, and non-food products. As a ProMach brand, Matrix is in the unique position to provide customers with a wealth of knowledge throughout their entire packing system. And we can facilitate integrating packaging and processing products and solutions for diverse companies throughout the world.

Matrix partners with Pacraft (formerly Toyo Jidoki), INVpack, and Cetec to provide a comprehensive flexible packaging solution.

Pacraft (formerly Toyo Jidoki), a leader of high quality automated pre-made pouch packaging systems efficiently load, open, fill and cap pouches. Suitable for liquid and non-liquid applications producing a precise dependable seal.

INVpack, a leading provider of high quality stickpack/sachet systems for flexible packaging applications. INVpack was the first form-fill-seal company specializing on the stickpack format. Technologies continually evolve to follow rigorous security and hygienic rules including Ultra Clean format.

Cetec, a leader in high quality horizontal fill and seal large format pre-made pouch packaging machines. Cetec offers multiple bag styles, filling and closing options, and final wrapping and palletizing choices to complete your packaging line.



See us at booth
N-5334



PROMACH

Performance, Packaged



FLEXIBLE PACKAGING SOLUTIONS

- Ability to produce different bag sizes on same machine
- Fully washdown and hygienic designs
- Small footprint to fit your needs
- Easy to operate



F&T

FLEXIBLES
& TRAYS

PROUD DISTRIBUTOR OF:



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invPACK
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PACRAFT

Visit us @ Pack Expo Booth #5334

POUCHES • BAGS • STICKPADS • SACHETS

888.628.7491 | www.MatrixPM.com

MESPACK INNOVATIVE PACKAGING EQUIPMENT

424 Howard Avenue - Des Plaines, IL 60018 (USA)

Phone: 1 (224) 297- 0952 Email: infousa@mespack.com

www.mespack.com

We are thrilled to announce that Mespack will be back to Pack Expo Chicago trade show presenting the latest novelties in the booth S-3646, within Duravant area. Mespack is a leading international manufacturer of flexible packaging machinery, offering horizontal (roll-stock, pre-made, and hybrid) as well as vertical form fill and seal equipment to produce sachets, stick packs, stand-up pouches, or other film-based packaging. Furthermore, the company provides high expertise in water soluble pods equipment with the Hydroforma series, and end-of-line turnkey projects minimizing the costs and risks thanks of having a single, self-managed partner.

Mespack, with the largest portfolio of the industry worldwide, engineers and builds premium quality machinery for the world's leading consumer packaged goods companies. It is recognized as a highly innovative brand, strongly committed to developing machinery to produce sustainable packaging solutions and accompany its customers in the transition to recyclable structures. Since 2015, Mespack is part of Duravant, a global automation equipment company with a premium portfolio of products, services, and integrated solutions.

mespack
A DURAVANT COMPANY



See us at booth
S-3646

Leading Innovative Equipment for a Green World



Solution Finder



Horizontal Roll-Stock
H Series



Horizontal Hybrid
IMH Roll-Stock and Pre-Made



Horizontal Pre-Made
HF Series



Horizontal Roll-Stock
Ultra-High Speed Series



Horizontal Pre-Made
HSC Series



Water Soluble Pods
Hydroforma HP



Horizontal Roll-Stock
HCM Series and HIM Series



Vertical Form Fill and Seal
MS Series



Secondary Packaging
Wrap Around and American Box

METTLER TOLEDO

1571 Northpointe Parkway – Lutz, FL 33558

Phone: 813-889-9500 Email: pi.marketing@mt.com

www.mt.com/pi

METTLER TOLEDO Product Inspection will demonstrate its metal detectors, checkweighers, x-ray and vision inspection systems, and Track and Trace solutions, as well as its data management and connectivity software. Systems will be shown for all types of products including bulk, piped, gravity fed, and packaged products for the food and pharmaceutical industries. Experts will be available to explain the features and benefits of each and discuss individual applications.

Some key highlights include:

Live demonstrations will be held on an x-ray inspection system and a checkweigher running small, packaged product on a loop conveyor running at high speed to mimic production environments. The X34C x-ray system offers a unique combination of fast throughputs and a compact footprint. Only 700 mm long, including its integrated reject device, this x-ray system is suitable for installation in tight spaces. The X34C achieves accurate performance while running at exceptionally high speeds of up to 400 packages per minute (ppm).

The C35 AdvancedLine checkweigher, which offers a weighing range from 25 g to 7 kg, will have the newest load cell – FlashCell™ – which allows the system to achieve industry-leading throughputs. FlashCell™ enables C-Series checkweighers to process products more quickly and reduce product give-away through greater weighing precision. Manufacturers will also benefit from smaller checkweighing system footprints to fit within limited factory floor space.

A brand-new inspection system will be introduced that provides unmatched detection of low-density contaminants such as bone, stone, glass, rubber and some plastics. Live demonstrations will be held throughout the show.

The highly configurable X36 x-ray inspection system will be equipped with two lanes and two separate reject systems. This versatile x-ray unit for small, medium and large-sized packaged products offers superior contamination detection, product integrity checks and presentation verification across multiple lanes at fast throughputs.

Among a variety of metal detectors, the latest M-30R Series will be demonstrated. Combined with advanced algorithms, new smart SENSE™ software makes it possible to deliver high sensitivity to all types of metal contaminants with minimal false rejects. Dynamic Stability Control innovations stabilize the core sensor of the metal detector to help protect against interference for increased reliability. The metal detector and conveyor can be easily upgraded as compliance or production requirements change which helps manufacturers to achieve a lower overall cost of ownership and extend the useful life of their equipment.

Several combination inspection systems will be shown, including a CX35 checkweigher/x-ray inspection system, and a CV35 checkweigher/vision system.



ProdX Data Management Software



New X34C X-ray Inspection System

METTLER TOLEDO



See us at booth
S-1714

MODULAR CONVEYOR EXPRESS - MCE

600 South Commercial St., Neenah, WI, 54956

Phone: 844-293-2816 Email: jpesicek@modularconveyor.com

www.modularconveyor.com

Build Your Best Conveyor Business

Modular Conveyor Express (MCE) is the dedicated distributor network of Nercon. Selling exclusively through MCE Distributor Partners, MCE complete conveyor systems are designed by Nercon engineers and backed by Nercon quality standards. This network includes distributors located across the United States who are fully supported by an MCE team of conveyor experts able to understand and respond to the specific operational needs of the MCE distributor network on an individual basis.

Conveyor Designed by Nercon

Built to maximize productivity, MCE complete conveyor systems provide a significant competitive advantage to MCE distributors. Developed and designed by highly skilled Nercon engineers over countless hours of analysis and testing, MCE conveyors skip the costly start-up of a custom process and begin with a core of proven equipment making your projects more cost-effective and MCE's turnaround time an advantage.

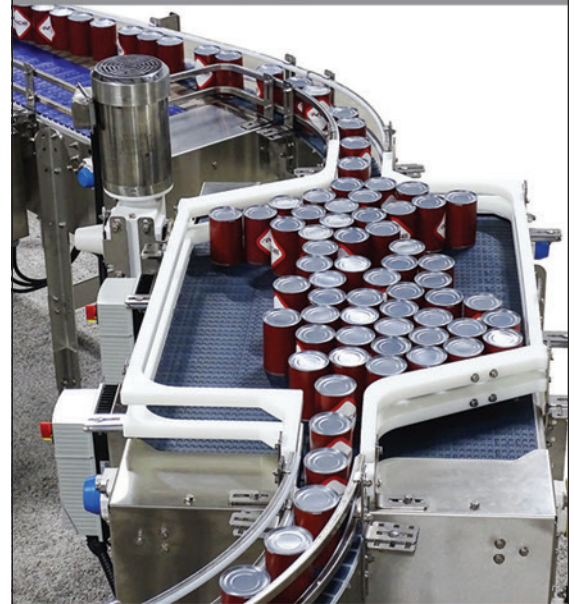
MCE's conveyor systems are manufactured at Nercon's production facility in Oconto, Wis., where Lean Manufacturing practices are employed to increase quality, identify any wasteful operations, and reduce unnecessary costs. As an industry leader in manufacturing conveyor systems and equipment, we are proud of the advanced technology and unparalleled quality our distributors can count on.

Contact us at (844) 293-2816 to learn more about becoming a distributor for MCE.
www.modularconveyor.com



See us at booth
S-2843

BUILD YOUR BEST CONVEYOR BUSINESS



Re-Flow Accumulation Table

DISTRIBUTORS

represent

Modular Conveyor Express

*An industry leading company with
proven conveyor systems.*

- **Product Flexibility:**
Quickly introduce new products into inventory
- **Process Flexibility:**
Modular conveyor systems with standard designs and short lead times
- **Cost Flexibility:**
Quote solutions with options for every project blueprint



Conveyors designed by Nercon

modularconveyor.com

844-293-2816

MULTIVAC

11021 N Pomona Avenue Kansas City, MO 64153

Phone: 800/800-8552 Email: info@multivac.com

us.multivac.com

MULTIVAC is one of the world's leading suppliers of packaging solutions for a wide variety of products including meat, poultry, seafood, fresh fruit and vegetables, leafy greens, and medical and consumer products. Our comprehensive range of equipment covers a variety of applications from single, stand-alone machines for smaller businesses right up to fully automated lines for large companies. We offer an extensive range of primary packaging technologies, printing and labeling, quality control and secondary packaging automation. MULTIVAC's portfolio also includes Smart Services, a digital product and solution that processes data in real time and offers customers solutions for monitoring, controlling, and optimizing production.

MULTIVAC will be featuring a variety of machines and line solutions at this year's Pack Expo, our main booth #N-4745 will include our S 1600 Slicer, Rx 4.0 Thermoformer, Crossweb Labeler and Direct Web Printer. Also featured in our main booth will be the R 105 Thermoformer, ideal for smaller spaces with attractive cost-benefit performance, the TX 720 Traysealer, and the T 205 and T 305, perfect for small or medium batch sizes. Lastly, we will feature our belted chamber machine the B 425 which offers a high output with smaller products such as poultry, cheese, and fish.

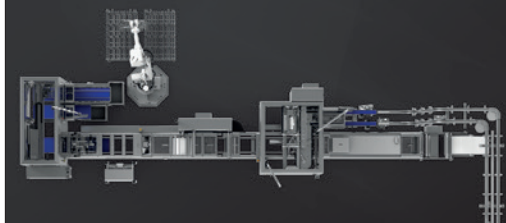
In the medical pavilion, we are proud to feature the R 145 thermoformer specifically for medical applications, which boasts efficient production, quick format changes and individual pack designs. Come check out this machine at Booth #W-18002.

MULTIVAC's US headquarters is based in Kansas City, MO and is supported by a world-class Innovation Center, training programs and four US regional support offices to serve you and your customers.

FUTURE-PROOF.
HIGHEST OUTPUT.



AUTOMATED
LINE SOLUTIONS



LEARN MORE
SCAN QR CODE



MULTIVAC

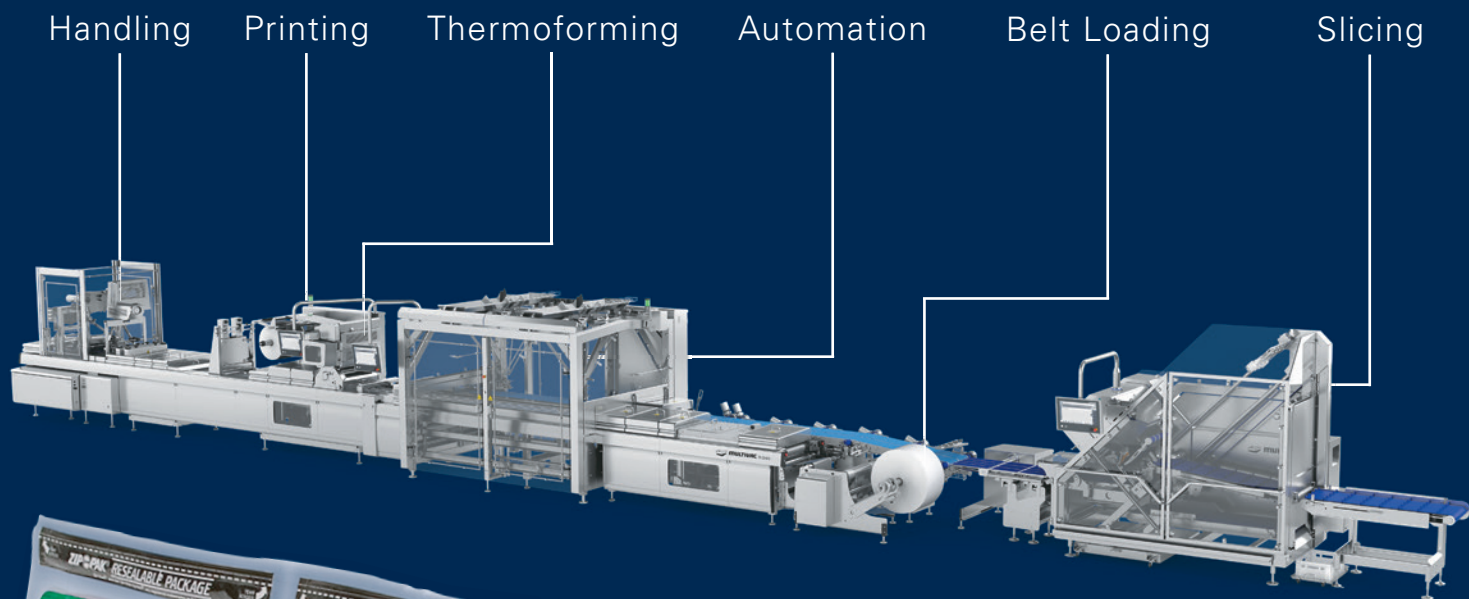
us.multivac.com | 800.800.8552



See us at booth
N-4745 & booth
W-18002 in
the Healthcare
Pavilion

INTEGRATED LINE SOLUTIONS FROM A SINGLE SOURCE SUPPLIER

MULTIVAC equipment can be fully integrated into complete line solutions. Our "One Line, One Control" philosophy allows all MULTIVAC components, such as slicing, product loading, packaging, conveying, printing & inspection to be controlled from a single HMI. Setup and changeover is easy because everything is managed & stored on one interface.



October 23-26, 2022
North Building: Booth N-4745
Healthcare Packaging Pavilion
West Building: Booth W-18002

MULTIVAC

us.multivac.com | 800-800-8552





Institute of
PACKAGING
PROFESSIONALS

Packaging Education Opportunities

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Basics

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PMMI members:
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assistance through
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Tuition Reimbursement
programs.

For more details,
contact Kate Fiorianti
at kfiorianti@pmmi.org

NERCON CONVEYOR SYSTEMS

600 S. Commercial St., Neenah, WI. 54956

Phone: 844-293-2814 Email: sanklam@nercon.com

www.nerconconveyors.com

Need to move a product up or down, side-to-side, accumulate, rotate, or turn it? Maybe you need a quick changeover system or to maximize space on a production floor. Nercon has done all of that.

The ProCore® conveyor line features conveyor systems and packaging equipment, from mattop, tabletop and belt conveyor systems to re-flow and rotary accumulation tables to Spirex® spirals to adjustable guide rails and more. All ProCore® models are built with a standard base that allows modifications for customer preferences, making it a hybrid between standard "one-size-fits-all" and a custom product.

HydroCore® hygienic clean-in-place (CIP) and sanitary clean-out-of-place (COP) conveyor systems are designed to help keep our customers moving in ways that are faster and more efficient with fewer repairs, more uptime and increased profit margins. Our sanitary z incline conveyor and washdown spiral make it possible to meet today's stringent sanitary standards while still optimizing production operations.

Come see Nercon's conveyor solutions in operation and talk with our conveyor experts on how to keep production deadlines on schedule.

Conveying Solutions Include:

- TableTop conveying systems
- MatTop conveying systems
- Sanitary conveying systems
- Spirals, Inclines and Elevators
- Accumulators
- Adjustable Guide Rails

 **NERCON**
conveyor systems
www.nerconconveyors.com



See us at booth
S-2843

CONVEYOR SYSTEMS



Re-Flow Accumulation Table



Washdown Spiral

Designed with a Purpose®

Need to move your product up or down, side-to-side, accumulate, rotate, or turn it?

Nercon's conveyor solutions provide maximum flexibility and reliability for packaging applications of various sizes, shapes and weights.

 **NERCON**
conveyor systems
www.nerconconveyors.com
844-293-2814



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NEW ENGLAND MACHINERY

2820 62nd Avenue East Bradenton, FL 34203

Phone: 941/755-5550 Email: info@NEMinc.com

Visit us online at NEMinc.com

WHAT WE DO - We build AUTOMATED Packaging Equipment for customers around the world in the Food, Beverage, Pharmaceutical, Nutraceutical, Personal Care, Household, and Chemical Industries to name a few. Our products include Unscramblers, Cappers, Lidders, Orienters, Pump Placers, Retorquers, Scoop Feeders, Puggers, & more!

HOW WE DO IT - As opposed to outsourcing we in-source, giving us unparalleled control over the lead time, cost and quality of our equipment. Machinery is designed by our in-house engineering team and built out of raw material that travels from our machine shop to welding, fabrication, assembly, tuning, and quality control to become your state-of-the-art machine.

WHAT THIS MEANS FOR YOU - We are committed to building lasting relationships with our customers. This is the reason every machine we have built since our inception, 48 years ago, is still supported 24/7 by NEM experts on our dedicated service team.



See us at booth
S-2530,
S-2158, &
W-15001

There is a Better Way with New England Machinery.

Thousands of customers worldwide choose NEM to achieve:



Increased
ROI



Greater
Profits



Smaller
Footprint



Solutions
for Difficult
Projects



Continued
Support &
Service

Providing Reliable, High-Performing Packaging Equipment for Over 48 Years.

We **upright** containers from random bulk.

We **close** containers to specification.

We **orient** containers to align on spot & much more!

NEM builds solution-driven machinery including **Unscramblers**, **Cappers**, **Orienters**, **Pump Placers**, **Retorquers**, **Scoop Feeders** and more. We also build lasting relationships. We are here to serve you today, tomorrow, and for many years to come.



CONNECT WITH US:

Visit us online at NEMinc.com

Call today 941-755-5550

Email info@NEMinc.com



See LIVE DEMOS of NEM Unscramblers feeding CAPPERS, FILLERS, & MORE in Booths S-2530, S-2158 & W15001

NITA SENTIENT LABELING SYSTEMS

1051 Du Viger Street, Terrebonne, Québec, J6W 6B6, Canada

Phone: 1.855.668.6482 Email: Sales@Nita.ca

www.NitaLabeling.com

Welcome to NITA Sentient Labeling Systems, the original 100% servo labeler that dramatically reduces operator touch-time and increases productivity - all while integrating the latest next gen technology, the most intuitive user experience, best-in-class responsive support and truthfully, pure labeling joy.

We love UPTIME. In fact, we're so driven by it we've designed all the features on every NITA to create it. How? By meticulously analyzing your labeling pain points - then solving them - with innovation, technology, and certifiably flawless execution.

So, what causes downtime?

- Long and challenging changeovers
- Difficult or non-existent synchronized on-the-fly micro-adjustments
- Lack of operator training
- Ordering the wrong parts / installing parts incorrectly
- Diagnostic issues
- Non-existent Preventative Maintenance scheduling
- Accessibility to quick tech support

We hear you. And we've got you. Every Nita system is built with the following unique features:

Ultra-fast, Servo-driven FULLY AUTOMATIC product changeover system at the push of a button.

100% speed synchronized, all-Servo technology engineered with off-the-shelf, non-proprietary electronics. No PLC's. No micro-processor boards. Just cutting-edge Servo Technology.

Parts ordering directly from the machine via built-in 3D drawings that scale down to your specific required item.

A self-diagnosing system that actually identifies possible issues and suggests fixes or when parts need changing or servicing before they become a problem.

Daily Preventative Maintenance schedules and video tutorials with tiered level tasks.

A powerful SCADA platform that provides real time O.E.E. and other performance data.

NitaCare lifetime no-charge live tech support built right in your screen at the push of a button.

A Wi-Fi enabled Panel PC HMI

Nita Labeling PROMISES to do anything and everything required to make your labeling life as easy and productive as it can be. It is why we exist. Experience for yourself what the best labeling company and labeler will bring to your productivity numbers. 100% money back guaranteed happiness.

We cannot wait to meet you. For the love of labeling!
Your Nita Team



NITA
SENTIENT LABELING SYSTEMS



See us at booth
S-3666

**HAVING TROUBLE FINDING SKILLED WORKERS
FOR YOUR PRODUCTION LINE?**

NO STRESS. WE BUILT THEM RIGHT INTO OUR LABELER.



100% Servo FULLY AUTOMATIC CHANGEOVERS
Reduce Operator Touch-Time by up to 80%

Come see this incredible UPTIME machine in
Booth S-3666. We can't wait to meet you.
www.nitalabeling.com 1.855.668.NITA (6482)

It is not just a labeling machine...

IT'S A NITA!

OPTIMA MACHINERY CORPORATION

1330 Contract Dr. Green Bay, WI 54304

Phone: 920-339-2222 Email: info-usa@optima-packaging.com

www.optima-packaging.com

Optima Packaging Group is the worldwide leader in packaging machine technology. Founded in 1922, the family owned and operated business is celebrating its 100-year anniversary this year. Optima Machinery Cooperation was the first subsidiary of Optima Packaging group, incorporated in 1985 with two employees in Green Bay, Wisconsin. Today, Optima Machinery Cooperation has been represented in America for over 35 years with more than 100 employees and continues to grow. Optima recently opened its new service hub in Knightdale, North Carolina and plans to triple the number of US service personnel by the end of 2022.

Optima builds innovative packaging machine solutions with state-of-the-art technology. We design and build packaging and filling machines as well as complete production lines for pharmaceutical, consumer, nonwovens and life science products. Optima specializes in modular and turnkey solutions with the latest technological advances for a variety of products.

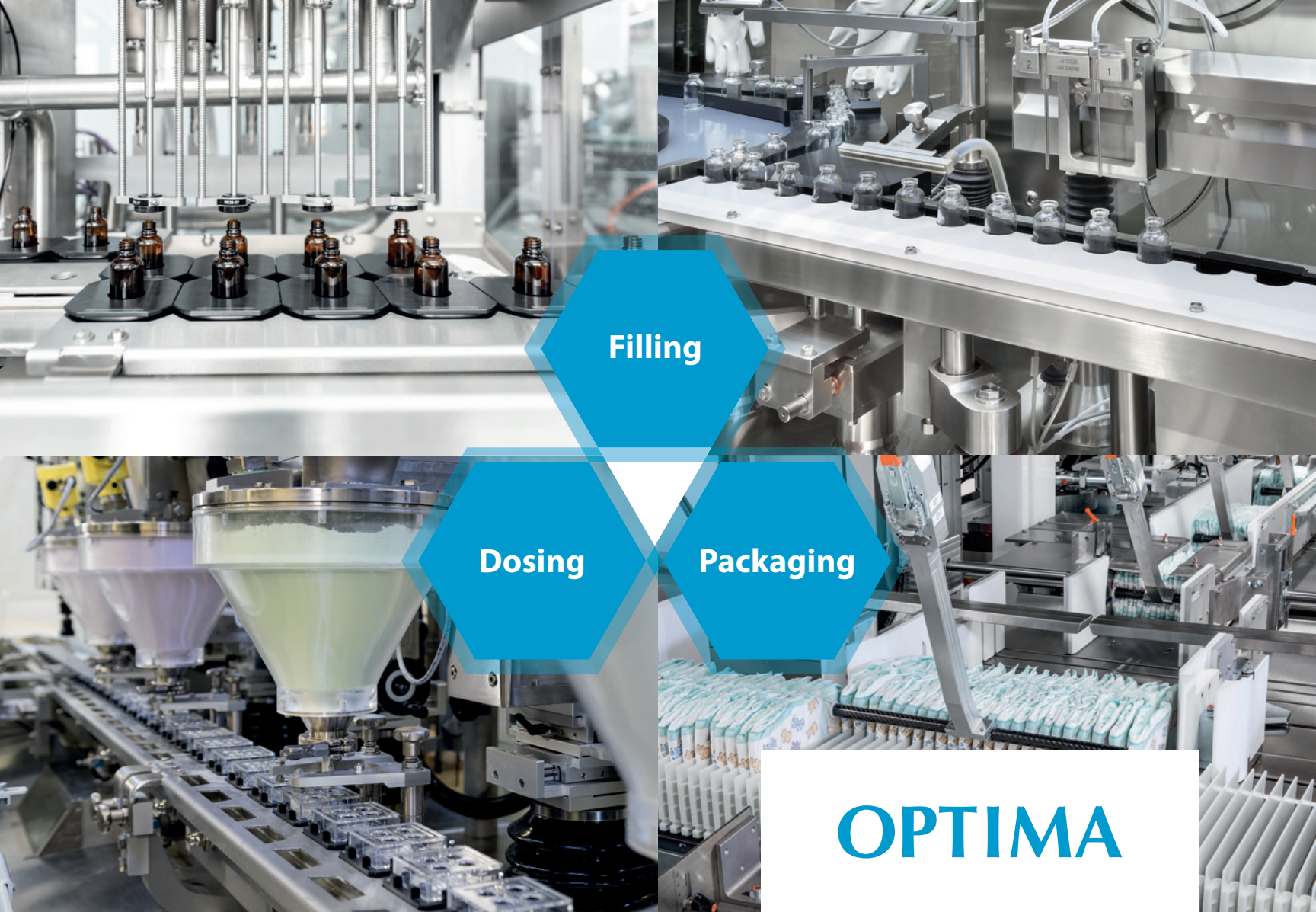
At Optima's PACK EXPO booth, our experts will be on hand to:

- Give you a live look at our pre-configured machine solutions for the cosmetics sector and learn how speed up your time to production
- Exchange ideas about filling, dosing and packaging machine solutions for pharmaceutical, consumer, nonwovens and life science products
- Discuss how Optima's extensive Intelligent Production Assistance Services can increase your production efficiency

Stop by our booth in the North Hall (N-6132) to learn more!



See us at booth
N-6132



Filling

Dosing

Packaging

OPTIMA

OVERALL SOLUTION PROVIDER

**For filling, dosing and packaging
solutions**

As a provider of solutions and systems, Optima supports you from the product idea through to successful production and throughout the entire machine life cycle. With our local subsidiary Optima Machinery Corporation in Green Bay, WI and our newly opened service hub in Knightdale, NC, you are always on the safe side – local support and troubleshooting is guaranteed at any time.

Meet us at



PACK EXPO International
from October 23 to 26 in Chicago

Booth No. N-6132
Hall North

Optima Machinery Corporation | 1330 Contract Drive | Green Bay, WI 54304, USA

ORIENTAL MOTOR USA

570 Alaska Ave., Torrance, CA 90503

Phone: 310/715-3300

Email: sales@orientalmotor.com

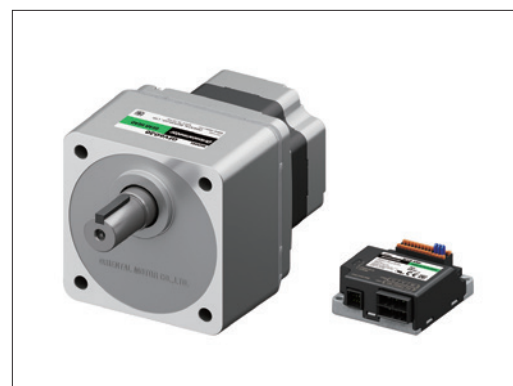
www.orientalmotor.com

Oriental Motor is a leading Japanese manufacture and global provider of precision, fractional HP motors, gears, actuators, driver / controllers and thermal management solutions. We are dedicated to helping our customers size and select the proper motion solutions. Offering over 50,000 standard products, with sales offices throughout North America and around the world, our AlphaStep AZ Series is a dedicated family of high efficiency, low vibration closed loop positioning motors and our Brushless Motors feature a full line designed for conveyor and material handling to AGV / AMR designs. Oriental Motor is committed to helping provide the services and support for in-house automation or to support OEM applications.

Oriental Motor began with handmade motors in 1885 and we aim to carry on working on all kinds of "Motion" in the world, such as AC Motors, Speed Control, Position Control, Mechanical Motion and Thermal Management requirements. Oriental Motor globally has been providing the optimal motion systems as part of our total service, to meet the widest market demands.

Oriental Motor's sales and service network is international, with offices throughout North America, Europe and Asia.

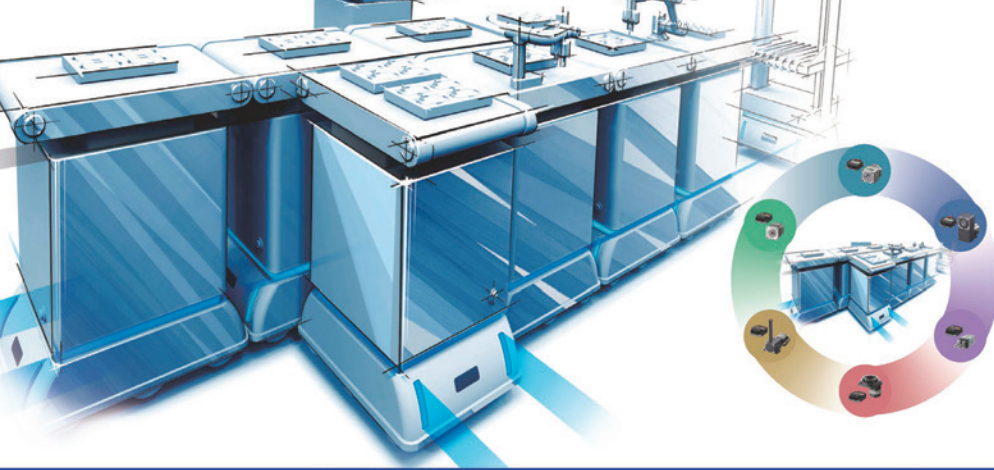
We are following through on our basic stance of "being able to not just deliver a hundred units to one company but deliver one unit to a hundred customers" by standardizing products. This philosophy allows us to deliver what is needed, when it is needed, in just the quantity that is needed. This approach has also taught us what kinds of motion is required in every era such as high efficiency motors to meet the demands for more energy saving, lower heat generation and more precise motion required in today's environment. We communicate with our customers from the stage where they start studying their equipment through the delivery and after sales service. This is the character of total service and support offered by Oriental Motor.



Orientalmotor



See us at booth
N-4605



Orientalmotor

Designed for Modular Automation

Solutions that allow the assembly of small or varying lots with Modular Automation compatible products

Learn more at booth N4605
www.orientalmotor.com



Modular Automation Compatible Products

Articulated Arm Type
Transportation Robots



Vertically Articulated Robot **A B**

Articulated drive/**AZ** Series motor, mini driver
 Hand/electric gripper **EH** Series, mini driver
 Robot controller/**MRC01**

Lifting and Lowering Type
Transportation Robots



Lifting and Lowering Equipment **C**

Rack-and-pinion system **L** Series
Conveyor D
BLV Series **R** Type

Conveyor Type
Transportation Robots



Transportation Robot (Wheel Drive) **E**

BLV Series **R** Type

α STEP **AZ** Series mini driver & motor/actuator



Mini Drivers
RS-485 Communication Type



DC Input Motors



Rotary Actuators



Rack-and-pinion
Systems



Electric Grippers



Compact
Electric Cylinders



Electric Linear Slides

Brushless Motors **BLV** Series **R** Type



Battery Compatible
BLV Series **R** Type **CANopen**



Parallel Shaft
Gearhead



Hollow Shaft Flat
Gearhead



Round Shaft

Benefits of Modular Automation

- Flexibility in Production Layout
- Productivity Improvements
- High-Mix, Low-Volume Production
- Resolve Labor Shortage
- Space Saving
- Energy Saving

ORION PACKAGING

4750 County Road 13 NE

Alexandria, MN 56308

Phone: 800-333-6556

Email: Orion@promachbuilt.com

www.orionpackaging.com

Orion offers the most comprehensive line of end-of-line stretch wrapping products available. Styles include rotary turntable, rotary tower, orbital, and horizontal wrapping systems, as well as custom solutions engineered to meet our customers' exact needs. Orion's heavy-duty industrial equipment continually sets the standard for durability, efficiency, flexibility, reliability and performance.

Special emphasis is placed on our advanced film pre-stretch system to assure the most cost-effective use of every inch of stretch film.

FEATURED AT THE SHOW:

The Orion S-Carriage InstaThread Pre-Stretch Film Carriage has been implemented across Orion's entire Flex and Automatic lines. The S-Carriage reduces film consumption, saves time, and minimizes the potential for accidents. The S-Carriage consistently pre-stretches film a standard 260%, plus with over 180 degrees of film-to-roller contact, neck down is reduced. These features significantly reduce film costs, and are important from a sustainability standpoint, as companies look for ways to reduce their environmental impact.

In addition to the being upgraded with the S-Carriage, see Orion's Flex Line of wrappers which now include bearings to replace casters for more reliable performance, fewer wear items, reduced maintenance, and loads up to 6,000 lbs. Orion is also highlighting the smooth conveyance of our LoPro drag chain conveyor, which integrates with the high-speed MA-DX wrapper - an ideal solution for beverage handling.



See us at booth
N-5646

PROMACH

Performance, Packaged



High-speed Pallet Wrapping's One - Two Punch

In today's modern, fast-paced, beverage facilities the top selling MA-DX LoPro delivers knock out performance, load after load.



Orion holds the title for beverage pallet wrapping systems — integrating the smooth 60 feet-per-minute conveyance of our Lo Pro Drag Chain Conveyor with the rapid pace performance of the MA-DX Automatic Rotary Tower Wrapper.

Handling up to three 2,500-pound pallets at a time, the LoPro automatically separates the pallets for wrapping. Then the MA-DX's 28 RPM counter-balanced rotary arm secures the load using Orion's proven Insta-Thread® film delivery system that maximizes the load stability and containment, all while using the least amount film. Once the load is wrapped, the Lo Pro consolidates the pallets for pickup — knocking loads out quickly and efficiently.

When you know the ropes in the beverage industry, you know Orion delivers the win.

Learn more about the beverage industry champ MA-DX LoPro:
www.OrionPackaging.com/BeerBeverage

PAC MACHINERY

San Rafael CA USA | Berea OH USA | Milwaukee WI USA

Phone: 1 800 985-9570 Email: sales@pacmachinery.com

pacmachinery.com

As a leader in the flexible packaging industry for over six decades, PAC Machinery is a trusted partner for businesses ready to automate packaging operations. From global consumer product companies to pharmaceutical and medical industry manufacturers to fulfillment houses, online retailers, and more, PAC Machinery has transformed packaging operations of some of the world's greatest companies and most promising small but growing businesses.

PAC's customized packaging systems immediately improve ROI with versatile:

- automatic bagging
- shrink wrapping
- bag sealing
- vacuum packaging
- flow wrapping systems
- medical validatable packaging

PAC Machinery equipment provides our customers with a competitive advantage to increase productivity through automation, reduce return rates with superior package integrity, minimize package volume to save shipping costs, and extend product shelf life for maximum freshness. With better choices and more experience, PAC Machinery creates the ideal solution for any packaging equipment need.

PAC has three locations including San Rafael, CA, Cleveland, OH, and Milwaukee, WI. PAC Machinery is a multi-generational family owned and operated business and manufactures products proudly designed and produced in the USA and shipped globally. We take pride in our innovative packaging solutions, craftsmanship, and helping customers better package their products to scale up for future growth.

If you want a competitive edge for explosive growth with automated packaging solutions, contact us today!

*We developed the 1st heat sealer, the Sealmaster—see it at the Pack to the Future exhibit.

in PAC Machinery
t @pac_machinery

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IG @pac_machinerysolutions



See us at booth
S 3314

PAC Machinery

More experience. Better choices.

PAC Machinery

More experience. Better choices.

Bag WRAP SEAL Vacuum Shrink?



- ✓ Automate your packaging
- ✓ Increase productivity
- ✓ Training & tech support
- ✓ Custom engineering



BAGGERS VACUUM SEALERS FLOW WRAPPERS SEALERS SHRINK WRAPPERS MEDICAL BAGS&MATERIALS

PACTIV EVERGREEN (FORMERLY EVERGREEN PACKAGING EQUIPMENT)

2400 Sixth St. SW, Cedar Rapids, IA 52404

Phone: 319-399-3200 Email: evergreen.packaging@everpack.com

www.evergreenpackaging.com

Pactiv Evergreen's Beverage Merchandising Business Unit starts with the needs of your specific product and designs a packaging solution from paperboard to custom barrier board to filling equipment, all tailored to keep your products fresh from source to table. In addition to freshness, fiber-based carton packaging delivers compelling, creative and high-impact branding opportunities for your product.

A full line of filling equipment is manufactured for refrigerated dairy, juice, plant-based, liquid egg and other liquid food products. Gable top packaging equipment, which forms, fills and seals paper gable top cartons is ideal for pasteurized, ESL (Extended Shelf Life), and ELL® (Extended Long Life) applications. Individual servo driven machine models, in multiple cross-sections, fill cartons from 4 oz. up to half-gallon (120 ml up to two liter) at speeds from 50 up to 340 cartons per minute.

Run Time®, our comprehensive parts and service program, includes OEM parts, knowledgeable support staff, and a strategically located certified technical service team available 24/7. Our number one goal is to keep processors up and running.



See us at booth
S-3182

pactiv 
evergreen™

The **best-in-class** half-gallon gable top machine...the **EH-84!**



You asked for **Quick Setup...**

You asked for **Better Visibility...**

You asked for **Increased Accessibility...**

You asked for **Repeatable Package Performance...**

You asked for the same great **Shelf Life Optimization** features...

You asked for all of these benefits to be available in a Half-Gallon and SmartPak™ Gable Top format. Now you have it!

Visit www.EvergreenPackaging.com/EH-84
and get a sneak peek of the EH-84 in operation.

pactiv 
evergreen™



Visit Us At
Booth S-3182

Cedar Rapids, Iowa • 319-399-3200 • www.evergreenpackaging.com

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PAKTECH

70 South Bertelsen Road Eugene, OR 97402

Phone: 541.461.5000 Email: handlesales@paktech-opi.com

www.paktech-opi.com

PakTech is the leading producer of 100% recycled and recyclable secondary packaging. Founded in 1991, they are a family-owned and operated business and headquartered in Eugene, Oregon.

PakTech's commitment to quality is paralleled by their commitment to the environment. They are dedicated to bringing the highest quality packaging to the market with the least environmental impact.

PakTech handles are made with 100% recycled HDPE resin such as recycled milk jugs and similar unpigmented containers. Second life PakTech handles are also reusable and 100% recyclable. When PakTech handles are recycled, they often see a third life as composite lumber, flower pots, park benches, new PakTech handles and more.

PakTech focuses on a sustainable approach by applying the reduce, reuse and recycle concept across every business decision. This means that sustainability is not merely a guiding principle but truly underpins the whole production cycle of PakTech's packaging solutions.

PakTech carriers feature a minimalistic design using the least amount of material. While other secondary packaging options wrap and surround product, PakTech carriers snap at the top letting the product shine for itself.

PakTech also offers automated application versatility. You can apply the handles by hand or utilize their automated applicators ranging in speed fit for any job. PakTech applicators are efficient, reliable, versatile and the smart multipack packaging solution.

From design to final handle application PakTech's responsiveness, rapid turn-around time, and comprehensive product offerings separate them from their competition. Tremendous value is what they offer and deliver.



See us at booth
S-3082

PMI KYOTO PACKAGING SYSTEMS

850 Pratt Street, Elk Grove Village, IL 60007

Phone: 847-437-1427 Email: sales@pmikyoto.com

<http://www.pmikyoto.com>



A HISTORY BUILT ON CUSTOMER TRUST

Based in Chicagoland since 1993, PMI has continued to expand our operations and product offerings as customer demand increased. We have worked to ensure our customers have been satisfied with the quality machines built, installed and continuously supported by our team of qualified engineers and technical professionals. In addition to our headquarters in Elk Grove Village, IL., which houses our engineering, manufacturing, parts, customer service and support teams, we offer a 150,000-square-foot manufacturing, engineering and testing facility next door as well as a rebuild facility down the street in Arlington Heights, IL.

Our parent company is committed to the advancement and service of the global packaging industry with best-in-class products and service offerings. Backed by an experienced team of 400 engineers from Kyoto Seisakusho, our engineering team will continue to advance our product lines and our tradition of well-built packaging equipment, including:

- Horizontal Cartoners
- Vertical Cartoners
- Case Packers
- Robotic Systems
- Integrated Systems

PACKAGING MACHINES BUILT TO PERFORM

We take pride and go the extra mile to make sure that your machine meets and exceeds your expectations. Our philosophy of designing rugged, well-crafted machines will assure your highest efficiencies with minimum cost of ownership while your machine runs for many decades. It is common to find PMI machines running at high efficiencies 20 years after installation. PMI KYOTO machines are built to last. Period.



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2450

COMPACT HIGH-SPEED EQUIPMENT

KC-100F



Compact design
Easy changeover
Simple maintenance
Robust design
High-speed

COMPACT AND HIGH-SPEED CARTONER

KTB-100



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for maintenance and
changeover.
High efficiency
Compact footprint

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- Label orientation system
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END-OF-LINE SHRINK, TRAY & CASE SOLUTIONS



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S-2147



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PROPACK PROCESSING & PACKAGING SYSTEMS INC.

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Phone: 1 905-563-9400 Email: info@propack.ca

www.propack.ca

Propack Processing & Packaging Systems Inc. is an industry leader in robotics and innovation, manufacturing and supplying high-performance processing and packaging machinery for the global market. Pioneering robotic technologies, Propack has over 25 years of insight and expertise and has earned a reputation for outstanding food-industry automation.

When your packaging application requires a robotic loading solution, Propack delivers proven systems with unmatched results. Integrating fully automated production lines with incredible speed, flexibility, sanitary design, and superior customer support, we are committed to our customers' success. Our team continues to exceed expectations with solutions that can be customized or purchased as a turnkey solution.

At Propack, we pride ourselves on working collaboratively with clients to build strong relationships and ensure the best solutions are developed to meet their unique needs. Visit us to learn more about our superior robotic loading equipment, our innovative custom solutions showcasing our ProVision technology and our newest Automated Sandwich Line.



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S-3536

Proven Systems. Unmatched Results. Experience the Propack Difference.



- IP69K Sanitary Compliance
- Robust Stainless Design
- Footprint Optimization
- Multiple Secondary Packaging Options Available

BOOTH S-3536

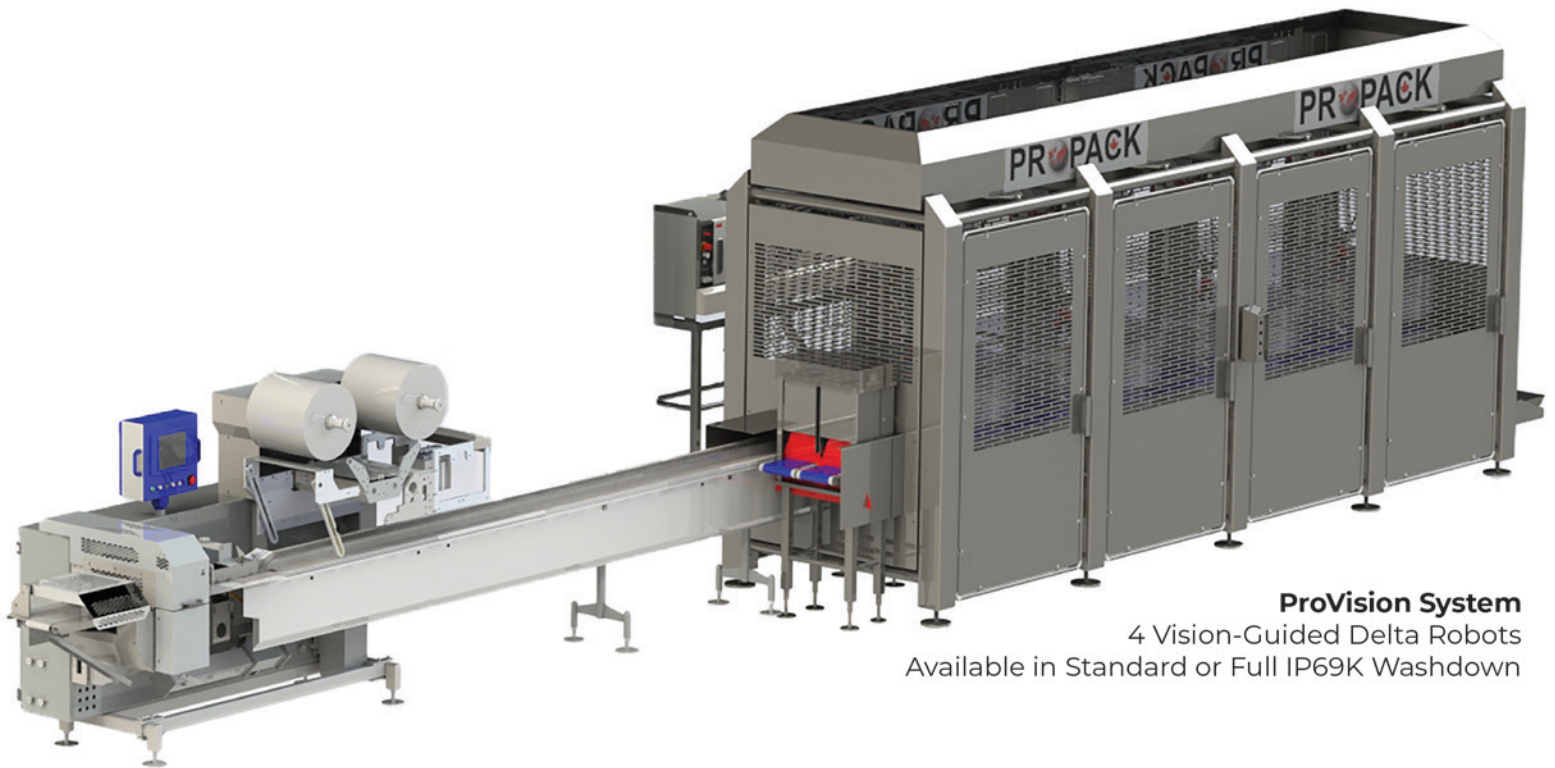


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PMMI



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Phone: 440.602.4700

Email: labeling@quadrel.com

www.quadrel.com

Quadrel Labeling Systems is a world leader in the design and manufacture of pressure sensitive and shrink sleeve label application equipment. We serve a wide variety of industries including packagers of pharmaceuticals, personal care products, automotive chemicals, beverages and food.

Quadrel offers an extensive product line ranging from simple economically priced systems, up to sophisticated inline and rotary systems that include vision, validation, PLC control, servo drives and remote access for trouble-shooting assistance.

Labeling and Sleeve application requirements can vary widely. Many companies have labeling projects that do not fit into a standard product offering.

Our experienced and professional engineering staff addresses these needs with a willingness to design complete custom one-of-a-kind labeling systems. We offer custom controls and documentation required by most Fortune 100 companies.

Providing a comprehensive, capable and elegant solution for our customers often requires we work with suppliers of products such as scanners, vision systems and printers. Quadrel is proud to partner with the most respected and recognized suppliers of this technology in our industry.

Responsive and professional technical support is vital to maintaining the productivity of machinery in the field. Quadrel keeps this commitment by providing technical assistance to install and maintain the equipment and train operating personnel.



See us at booth
S-3630

QUADREL

LABELING SYSTEMS



LABELING TECHNOLOGY FOR THE FUTURE

Quadrel Labeling Systems is a world leader in the design and manufacturing of **Pressure Sensitive** label application equipment.

Let **Quadrel** move your packaging line into the future.

From the harshest environments to the most sophisticated Pharmaceutical applications requiring vision, validation and serialization, Quadrel is ready to partner with you. Systems arrive Ethernet ready, and feature secure remote access for system monitoring, editing and trouble shooting.

In addition Quadrel systems feature Internationally compliant guarding, Allen Bradley Compact Logix PLC, Panelview color touchscreen operator interface, full servo control and redundant applicators for zero downtime non-stop operation.

Quadrel now offers an innovative continuous motion system which dramatically increases production rates. Our systems are ideal for the most demanding pharmaceutical, food, beverage, automotive and personal care applications.



Challenge us!

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QUEST, A PROMACH PRODUCT BRAND

303 N 29th Avenue | Monroe, WI 53566 | United States

Phone: 608.325.5850 Email: Quest@ProMachBuilt.com

www.QuestIndustrial.com

Quest is a manufacturer of industrial automation equipment focusing on robotics and vision-guidance serving food, beverage, dairy, and other industries needing to optimize floor space, expand operations with accuracy and consistency, and improve overall production line flexibility and efficiency. Quest offers application-specific software products on their robotic products, primary food handling, case packing, and palletizing systems, to simplify system setup and streamline configurability.

We are an award-winning FANUC Authorized System Integrator and Certified Vision Specialist and our systems are capable of direct food contact with USDA compliant and wash down designs. The diverse knowledge base of Quest engineers encompasses the entire manufacturing robotics process, allowing us to solve nearly any customer challenge with the appropriate level of robotic automation.



See us at booth
N-5440

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Performance, Packaged



Experience the FIRST Collaborative Box Bot

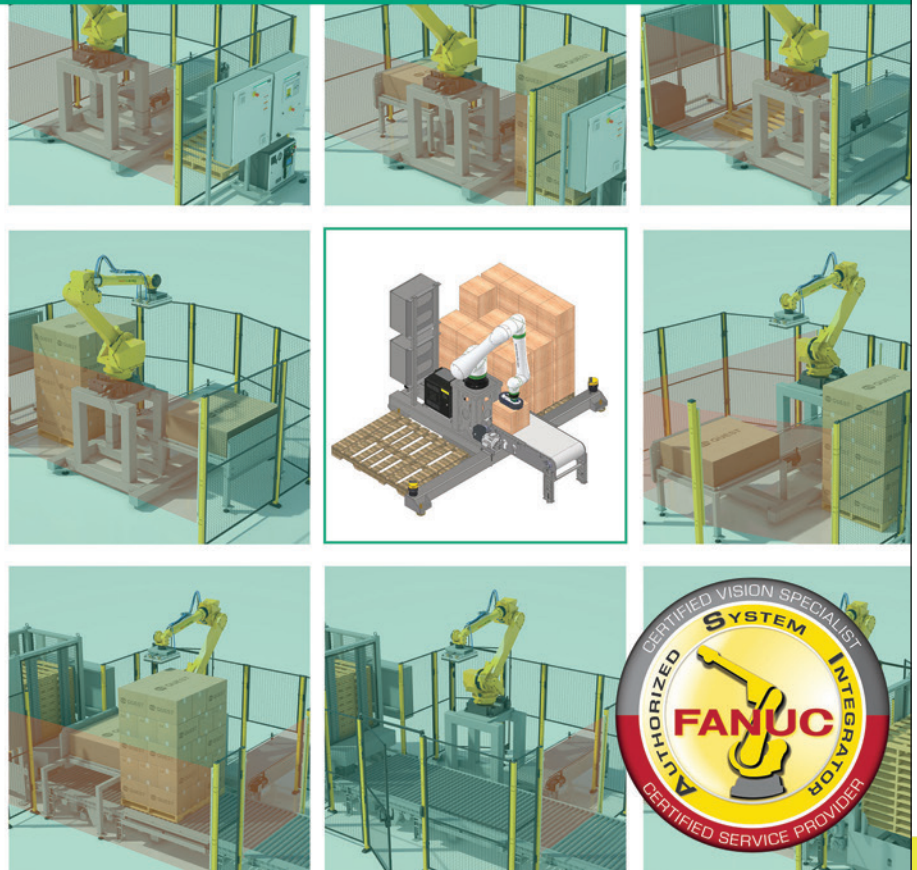
Quest's first collaborate palletizer has joined the Box Bot family. This modular solution eliminates the need for guarding bringing the efficiencies of robotics into a compact footprint.



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primary handling · case packing · palletizing · line integration



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CARTONING MACHINES

Our extensive portfolio includes end-load and customized top-load cartoners. These can range from hand-load vertical, to end-load, to fully automated systems running at 600 cartons per minute.

CHUB PACKAGING MACHINES

Our KartridgPak equipment is the workhorse chub solution for the food & mining industries and are much more cost effective than preformed clip solutions.

CUP FILLING & SEALING MACHINES

Our Autoprod & Holmatic cup systems fill, seal, and overcap straight or tapered-walled cups, tubs, or trays for a variety of viscous and dry products.

MULTIPACKING MACHINES

Whether single tier or double tier, 4 pack to 48 pack, our machines can handle multiple package configurations and styles including E-Flute & B-Flute cartons.

POUCHING MACHINES

Our Pouch King high speed pouch-filling machine fills 3-sided, 4-sided, gusseted, and stand-up gusseted pouch styles up to 7,000 linear inches of web per minute.

OUR EXPERIENCE PROVIDES QUALITY SOLUTIONS

We have engineered and manufactured over 9,000 machines across 7 different technologies. Our 80+ in-house engineers bring a collected confidence to all projects regardless of scope.

OUR SERVICE CAPABILITIES GUARANTEES OPTIMAL EFFICIENCY

Our in-house service, parts, and modernization teams are on call 24/7/365 providing remote assistance, on-site service, certified parts, training, and machine audits.

OUR INDUSTRY RELATIONSHIPS ASSURES THE LATEST TECHNOLOGY:

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R.A Jones is part of Coesia, a group of innovation-based industrial and packaging solutions companies operating globally, headquartered in Bologna, Italy and owned by Isabella Seràgnoli. Coesia companies include: ACMA, ATLANTIC ZEISER, CERULEAN, CIMA, CITUS KALIX, COMAS, EMMECI, FLEXLINK, G.D, GDM, GF, HAPA, IPI, MGS, MOLINS, NORDEN, R.A JONES, SASIB, SYSTEM CERAMICS, TRITRON, VOLPAK.



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S-2501

BOOTH S-2501
Something for everyone.

MULTIPACKERS



CUP SYSTEMS



CARTONING



POUCHING



AEROSOL



CHUB



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AUTOMATION SOLUTIONS

Whether you need to replace a piece of equipment, update an entire system or install a new line, Automation Solutions has the experience and expertise needed to deliver the best solution for you. We provide material & container handling solutions services for several industries, including food, beverage, household, personal care, container manufacturing and more.

Conveyors: With our Arrowhead Conveyor LLC line, we provide a broad and diversified line of table top, mat top, sanitary, air, and case handling conveyors. We can design a system solution for any type of material handling requirement, providing the engineering to develop an efficient, productive layout, as well as the necessary equipment and line controls.

Palletizers and Depalletizers: With BUSSE/SJI LLC, our team of experienced engineers design and build the best depalletizers and palletizers on the market. Custom designs are available to ensure your palletizer or depalletizer is built to meet your exact system's needs. With superior design and world-class manufacturing standards, our equipment delivers years of low maintenance and trouble-free performance, while providing the flexibility to adapt to changing demands.

Service: For manufacturers, success is determined by efficiency. That's why our goal is to keep your equipment running at peak performance with our A&B Engineering Services. Our technical representatives travel the world providing service on equipment from our equipment, as well as other major brands. From installation and training to maintenance and parts, trust our expert field service team.



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N-6020

REGAL REXNORD

200 State St, Beloit, WI 53511

Phone: 800-626-2120 Email: CustomerService.PTSolutions@regalrexnord.com

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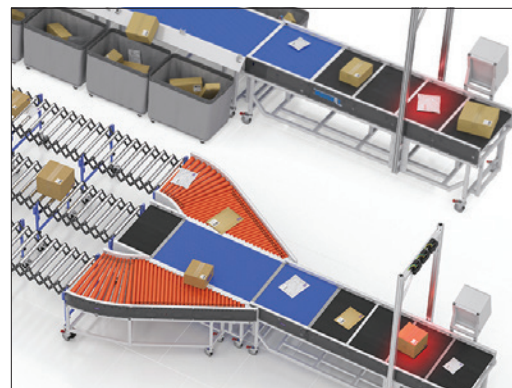
At Regal Rexnord, we can help you make the complex simple.

At your fulfillment warehouse, would you like to increase automation, reduce costs, and decrease the need to manually handle packages? The System Plast® ModSort® module is a low-noise, low voltage modular transfer/diverter station that can move everything from tiny polybags to boxes. This suite of products can easily integrate with new or existing systems, eliminating the need for a lift, pneumatics, or Z-direction position feedback devices. Integration of the ModSort module's run-on-demand technology into existing conveyor systems has saved some customers as much as \$90,000 annually in labor costs alone, while increasing conveyor speed from 50 to 90ft/minute and eliminating the need for totes.

Additional end-of-line, adaptable systems are available, such as the ModSort Mobile Flats sorter for expanding capacity, and the ModSort Trident mobile three-way sorter with a four-zone infeed that gaps a product, reads the package, then diverts left, right or straight on a 30-degree spur-curve to one of three sorting locations. To learn more about the ModSort suite of products, visit modsort.com.

For washdown environments, Regal Rexnord's many IP69K-rated products will help you meet CIP standards. Sealmaster® PN Gold™ mounted ball bearings with high performance triple lip seals, and USRB PN Gold mounted spherical roller bearings with double lip seals offer excellent protection against contaminant ingress. Hub City® Stainless Steel HERA® gear drives are built for sanitary operation with easy cleanability and polished stainless steel housings. HERA gear drives are 90% efficient, and can reduce and consolidate storeroom inventory with less SKUs - four models of HERA can replace 12 sizes of worm gear drives! Grove Gear® all-stainless steel worm gear reducers feature food grade synthetic lubricant with single-reduction ratios up to 100:1.

To learn more, visit regalrexnord.com/IP69K.



RegalRexnord



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S-1536

RENNCO, A PROMACH PRODUCT BRAND

300 Elm Street | Homer, MI 49245 | United States

Phone: 517.568.4121

Email: Rennco@ProMachBuilt.com

www.Rennco.com

Rennco vertical L-bar sealing equipment and automated bagging systems serve customers that need to create packages around one or many products that have complex shapes and sizes. We provide advantages of specialization and extensive experience with connections in the industry to utilize the best available sealing technology that perfectly fit customer requirements. Every machine is specially engineered from proven designs that will be operable for years to come.

Rennco provides reliable entry-level to completely automated solutions designed for most industries. Our legacy of refining vertical L-bar sealing equipment and automated bagging systems has been in place for more than 50 years. We have the largest installation base and geography reach in this segment of the packaging industry. Rennco also designs and manufactures innovative product handling, counting, accumulating and feeding systems for complete automated solutions.



See us at booth
N-5648

PROMACH

Performance, Packaged



Bubble Mailer Packaging Solution

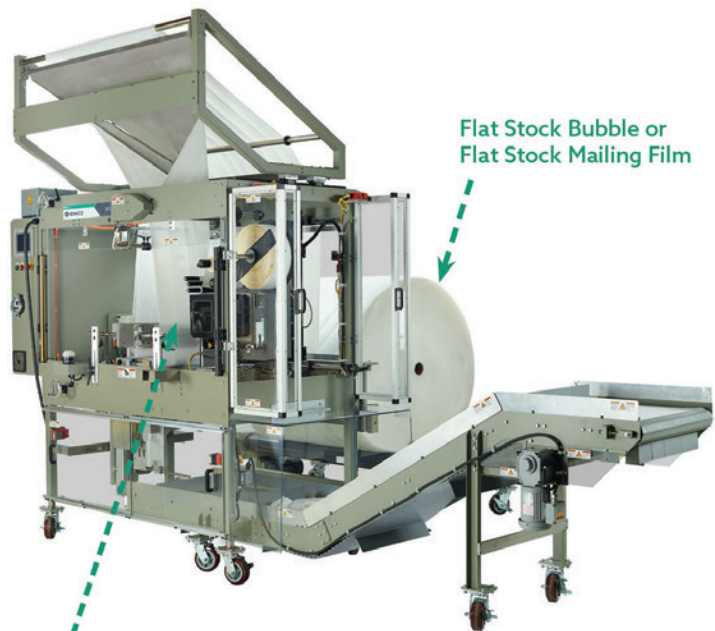
The Rennco ProCommerce bubble mailer system is a complete E-Commerce packaging solution. With the Rennco vertical packaging machine, flat stock bubble material or flat stock mailing film is utilized to "right size" the bag around your products reducing excess material and creating cost savings.



Poly Mailer



Bubble Mailer



Flat Stock Bubble or
Flat Stock Mailing Film

Shipment Label Application



www.Rennco.com/ProCommerce | 517.568.4121

Visit our booth N-5648

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5370 Guy Young Rd, Brewerton, NY 13029

Phone: 315/676-3035 Email: sales@schneiderequip.com

www.schneiderequip.com

Schneider has been designing world-class automation solutions for over 50 years. Our unmatched commitment to problem-solving coupled with innovative case-packing and palletizing designs has made us a leading manufacturer in end of line automation.

We take pride knowing our relationships with our customers are not just about completing a project, but creating a mutually beneficial partnership that will last for years. We incorporate cutting-edge technologies and build flexible, world-class solutions that are efficient, reliable, and engineered to meet each customer's need.

As a Pacteon company, we integrate seamlessly with ESS Technologies and Phoenix Wrappers systems. You can find your complete end-of-line packaging solution with Pacteon Group.

Learn how our technologies decrease your total cost of ownership, simplify programming, and proactively monitor your operating efficiency at www.schneiderequip.com.



See us at booth
S-3500

POWER-PACKED PRECISION

Building World-Class Case Packers and Robotic Palletizing Solutions

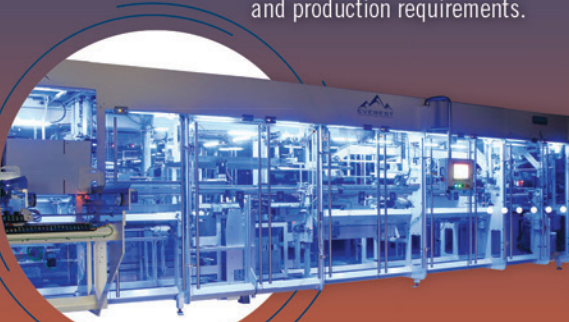
PALLETIZERS

Integration of FANUC robotics to create unique, flexible, and simple machines to meet your facility and production requirements.



CASE PACKERS

Whether it comes in a bag, box, carton, pouch, roll, or just about anything, we can pack it carefully and reliably. Horizontal, vertical bottom loading, robotic, or gable top- designed to meet your needs.



Pacteon Group provides a single source for automated end-of-line packaging systems.

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Phone: (980) 244-3140 Email: sales@schubert-na.com

www.schubert.group

Schubert is a global leader in top-loading packaging machines (TLM). For its digital, robot-based packaging machines, the family-owned company, headquartered in Germany, builds on an interplay of simple mechanics, intelligent control technology and high modularity. With this philosophy and a highly developed culture of innovation the company has been pursuing an entirely independent technological path for more than 50 years. The second generation of the company now employs 1,300 people. Innovations include the vision control system, the transport robot Transmodul or the flow-wrapping machine Flowmodul. Schubert provides future-proof solutions that are easy to operate, flexible in terms of format conversion, high in performance and stable in function. The machines package products of all types in trays, cartons, boxes or flow-wrap bags



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LU-8730

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The lightline machines from Schubert can be delivered **quickly** and **are exceptionally attractive in terms of price**. With the preconfigured machines, customers can adapt more flexibly to market trends and significantly shorten their time-to-market.

The **LIGHTLINE CARTONPACKER** consists of a single compact machine frame, and packs boxes, cans, bags or bottles into cartons and trays with or without a lid, wrap-around cartons and RSC cartons. It offers an affordable and **space-saving possibility** to automate packaging processes with the **most efficient technology on the market** while ensuring the highest availability and packaging quality.

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WHAT WOULD YOU LIKE TO **PACK**?



WHAT **TYPE OF CARTON** SHOULD IT BE?



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www.serac-group.com

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Designed, engineered, and built in the USA, we are proud of our past and striving to create and maintain a sustainable future.

Specializing in the design and manufacture of liquid filling and capping machines as well as blow molding equipment, Serac Inc is an independent, family-owned organization with an international, commercial, and industrial presence. Over 5800 machines installed in more than 100 countries and boasting a very diverse customer profile, Serac Inc is your solutions provider in the Americas.

We believe in a much more colorful & diverse world, where uniform goods & mass production have disappeared. In the age of low impact sustainability, we understand being local means creating less of a footprint with a more personalized approach to our market.

The Serac Inc customer centric approach is based on proximity with innovations focused on sustainability.

#Serac #creatingperformancetogether



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S-2847

SERPA

7020 West Sunnyview Avenue • Visalia, CA 93291 • United States

Phone: 559.651.2339

Email: serpa.info@promachbuilt.com

www.serpapackaging.com

Serpa manufactures secondary packaging solutions from cartoners and case packers to robotic palletizers and other complementary equipment to form complete end of line solutions. Handling the most unique packaging specifications in the pharmaceutical, food, beverage, personal care, household, and industrial markets, Serpa combines the latest technology and advanced design capabilities to ensure top-quality equipment that is geared for easy operation, tool-less changeover and ease of maintenance. Serpa is a trusted partner for integrated packaging systems and an authorized Fanuc integrator.

- Cartoning • Slewing • Case Packing • Palletizing • High Speed Infeeds
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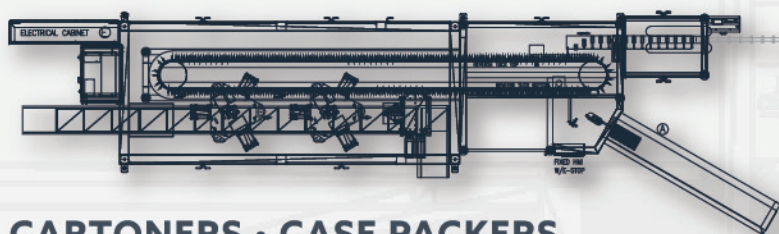


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booths #
N-5548,
W-17002

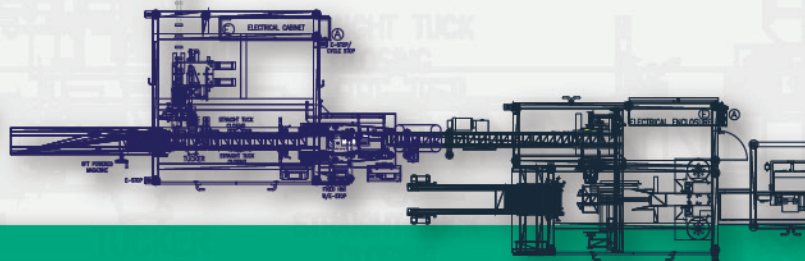
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EXCLUSIVE FOCUS ON SIDE DRIVE CONVEYORS

SideDrive Conveyor is the first company in the world to exclusively focus on and use only side drive edge-driven belting from Intralox, making it the authority when it comes to versatile, sanitary conveying equipment.

Featured is a unique, modular belting that stands up to washdown environments and is fatigue- and wear-resistant. An open, drumless spiral design allows our easy access, cleaning and maintenance.

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A TRUSTED HISTORY WITH INTRALOX

SideDrive Conveyor's partnership and heritage with Intralox also makes us uniquely qualified on sanitary conveyors. In addition to using only Intralox's side drive technology, SideDrive Conveyor's parent company NCC was actually started by a former Intralox employee. Our mechanical and electrical design and manufacturing expertise with sanitary conveying equipment is second-to-none.



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Keep food safe with this patent-pending spiral conveyor built to withstand harsh washdown environments



See us at booth
N-5740



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N-5148**

SKA FABRICATING

545 Turner Drive Durango, CO. 81301

Phone: 970/403-8562 Email: sales@skafabricating.com

www.skafabricating.com

Ska Fabricating builds heavy-duty, automated packaging line equipment that is hand-crafted to make life easier for businesses that rely on their packaging lines. We specialize in depalletizers, palletizers, custom conveyance systems, rinsing, drying, automated fill level detection and rejection, and date coding products. A team of skilled engineers handles every project with care, creating customized layouts and ensuring our customers receive the absolute best outcomes for their production goals, space, and budget.

With the acquisition of GR-X Manufacturing, we have expanded our capabilities for nearly all facets and verticals of the packaging market, including an even wider range of industries, container types, and line speeds.

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DURANGO, COLO



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LU-7657

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- 1120 x 1300mm
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LU-7657!**

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Sleeve Seal shrink sleeve labelers are intelligent systems engineered for repeatable performance in a durable, operator-friendly system. Built-to-last American manufacturing and Allen Bradley controls are combined to apply labels at speeds from 25 to 1600 containers per minute. Quality construction and the fastest, most rugged drive train in the industry provide countless hours of label application at efficiencies of 99.5% or more.

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SSL-800i MKII Vertical Sleeve Labeler

The SSL-800i MKII vertical sleeve labeler is our fastest single head labeler at up to 800CPM. Speed and precision application are achieved with our Automated Intelligence iSeries set of controls resulting in unparalleled flexibility and dependability. With pneumatic adjustments and formats recipes stored in the HMI, the operator input is controlled, ensuring efficiencies are repeatable shift to shift. The SSL-800i is a self-contained, versatile shrink sleeve labeler with stunning performance that can be combined with any of our label accumulation systems to run flawlessly for countless hours in harsh environments.



See us at booth
N-4950

sleeve seal

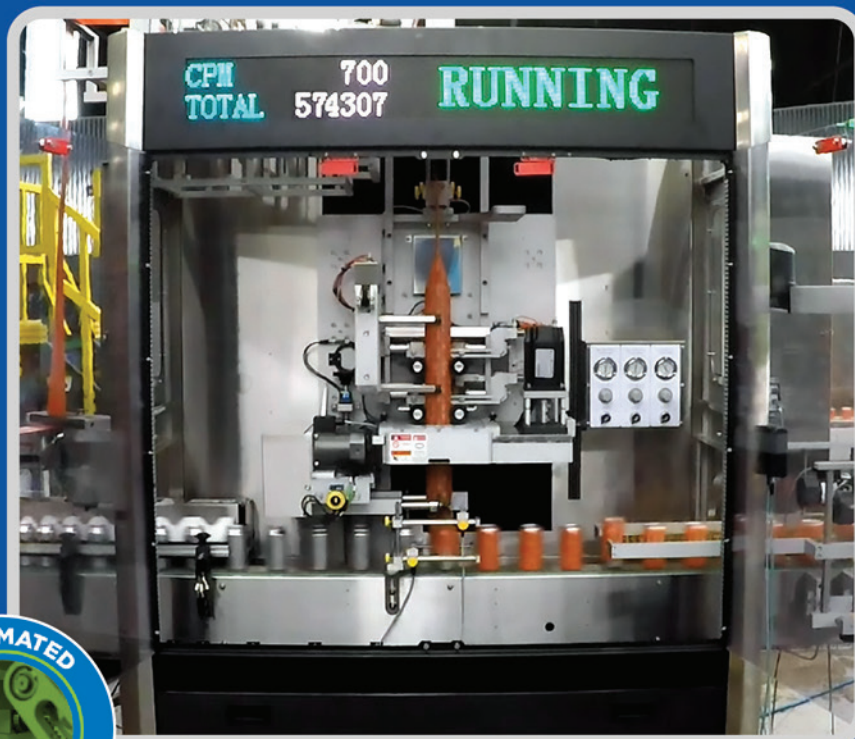
sleeve seal

SHRINK LABELING SOLUTIONS

EFFICIENCIES ARE EVERYTHING

Sleeve Seal shrink sleeve labelers take guess work out of labeling for the highest efficiencies. Easy and affordable to operate with multiple format options.

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- Directional Control Valves
- Electrical Products
- Sensors & Switches
- Static Control
- Temperature Control
- Vacuum

SMC's Commitment to Sustainability

SMC's products are designed to reduce unnecessary air consumption and electrical consumption while still meeting rigorous performance expectations that meet or exceed existing specifications.

By adopting the latest SMC technologies, we will help you lower energy costs and boost efficiencies, resulting in both cost savings and labor savings.

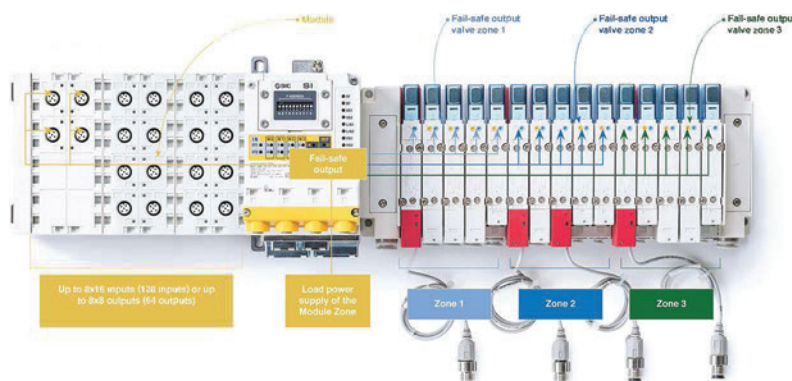
We partner with our end user customers to discover creative ways to reduce overall compressed air and electrical consumption more than anyone else in the industry. Our comprehensive approach focuses on consuming less raw materials in our manufacturing process by making our products smaller, lighter and extending the operating life.



See us at booth
S-3982

Valves to meet your safety requirements Following ISO 13849 Principles

Outputs: 4 channels of safe output power zones



Reliable SY Series valves available in 3 sizes to meet your flow requirements.

SY Series Advantages:

- Reliable use for safety-related control methods
- External Pilot pressure control valve on manifold, optionally with pressure monitoring or spool detection
- Working valve with spool detection for direct monitoring of the switch position
- Unique rubber sealed, double solenoid valve with detent (ISO 13849-2)
- Valves with spring return type lead the valve spool into the safety related basic position.
- Long lifetime (min 200 million cycles) enables high operational safety
- Optionally, 2 valve sizes are possible on one manifold, thereby saving additional valve manifold.
- Power saving circuits reduce current consumption
- Reduction of installation space with all connections on one side



SPAN TECH CONVEYORS

101 Hilltopper Way, Glasgow KY, 42141

Phone: 270.651.9166 Email: info@spantechllc.com

www.spantechconveyors.com

Span Tech leads the industry as an American material handling innovation company renowned for our durable plastic chain conveyors. Today we are recognized as a global leader in developing unique and customizable technical solutions for processing applications. Span Tech conveyors are widely used in Food & Beverage Production, Pharmaceuticals, Packaging, E-Commerce, Cosmetics, Distribution and Manufacturing. We provide our partners with the lowest total cost of ownership, as well as the longest service life available. We are committed to building the best conveyor systems possible. It is more than a goal. – It is how we do business.

PACKAGING APPLICATIONS:

When it comes to packaging facilities, the best conveyor solutions should make the most use of available floor space. Whether you are moving sensitive products, empty packages, or heavy packages a flexible, adaptable, and innovative conveyor system ensures each product is handled correctly and orientated appropriately before entering the filling, labeling, and packaging machines down the line.

PHARMACEUTICAL APPLICATIONS:


Span Tech conveyor systems are custom designed for pharmaceutical manufacturers to prevent cross contaminations from the handling of different products. We manufacture pharmaceutical systems to safely convey small vials and bottles, vial pucks, blister packs, bags, tubes, and small cartons.

Want to know if we have the right solutions for your industry's distinct needs? We do! Our custom options provide optimum performance to your conveyors system. Span Tech's highly specialized industry specific experience can help give your business the quality you need. Join us at Pack Expo Connects and learn how together we can Outlast, Outperform, & Outdeliver the competition, increase your throughput and minimize your downtime.



ONE SIZE DOESN'T ALWAYS FIT ALL.

THAT'S WHY OUR CUSTOMIZED CONVEYOR SYSTEMS ARE DESIGNED TO FIT YOUR FLOOR SPACE AND YOUR PRODUCT NEEDS.



October 23-26, 2022
McCormick Place
Chicago, Illinois USA

VISIT US IN OUR BOOTH
STOP BY AND TALK WITH OUR TEAM ABOUT
ALL YOUR CONVEYOR NEEDS
BOOTH# N-4734



See us at booth
N-4734



WWW.SPANTECHCONVEYORS.COM



SPEE-DEE PACKAGING MACHINERY

1360 Grandview Parkway • Sturtevant, WI 53177 • USA

Phone: 877/375-2121

Email: info@spee-dee.com

www.spee-dee.com



FILL WITH CONFIDENCE

Since 1981, Spee-Dee has earned a reputation for building reliable, accurate & dependable dry filling systems. Customers trust Spee-Dee to improve efficiency, productivity & profitability. Our test lab is second-to-none & offers the ability to simulate your full production line at our facility.

HIGHLY ACCURATE AUGER FILLERS

Servo technology eliminates time-consuming manual maintenance. Ideal for dry fill applications such as ground coffee, powdered drink mixes, baking mixes, sugar, spices, soup bases, protein powders, nutraceuticals & more.

HYGIENIC ROTARY FILLERS

Fill rigid containers with ease & accuracy. Changeovers are a breeze with patented magnetic funnels & all tool-less change parts. An open design allows 360 degree access. Ideal applications include nutraceutical gummies & powders, nuts, spices, snack foods & grated cheese. Speeds up to 400 containers per minute.

PLC-BASED CHECKWEIGHERS

Electro-Magnetic Force Restoration (EMFR) weighing technology is 10x more accurate than strain gauge models. Tool-less belt changes, USB port for easy data collection & straightforward static calibration by your technician - all in a small footprint. Sanitary, heavy-duty & inclined models available.

RELIABLE, DURABLE VOLUMETRIC CUP FILLERS

Quick-change volumetric cups are easily inserted in minutes, cleaning & maintenance are straightforward & user-friendly. Automatic or manual fine tuning available to adjust the fill weight for volume & weight accuracy. Designed to handle a variety of applications from simple hand-fills to interfacing with automatic equipment. Speeds up to 140 fills per minute.

FAST, ACCURATE CANNABIS FILLING SYSTEM

Unique tare/gross weighing system that tares the jar weight & verifies the gross weights. Easily integrates with a variety of multihead weighers. Reach speeds up to 40 jars per minute as you fill jars with a range of 1 to 28 grams of cannabis flower.



See us at booth
S-2022

FROM COFFEE TO PROTEIN POWDER,

if you make it, Spee-Dee® augers can fill it.



Spee-Dee will help find the right solution even for new formulations like plant-based protein powders, sugar substitutes and gluten-free flours. Our fillers easily integrate with all formats of bag makers, conveyor lines and cup and tray equipment. Optional vacuum tooling eliminates product drip for clean seals with all packaging types.



spee-dee.com | 877.375.2121

SQUID INK MANUFACTURING

7041 Boone Avenue N, Brooklyn Park, MN 55428, USA

Phone: 1-800-877-5658 Email: info@squidink.com

www.squidink.com

Squid Ink is a manufacturer of coding and marking systems for product identification and traceability, providing superior quality inks and low-maintenance printing equipment.

Squid Ink began in 1991, supplying high-quality replacement inkjet fluids. Since then, the company has grown and expanded to include a complete line of hi-res piezo printing systems, CIJ (continuous inkjet) printing systems, TIJ (thermal inkjet) printing systems, DOD (drop-on-demand) printing systems, laser coders, and a full library of inks and inkjet fluids.

Our printers and ink are designed to print the highest quality bar codes, batch numbers, date codes, logos, and large or small character text, directly onto corrugated cases, plastics, metals, glass, wood, and other substrates. And Squid Ink continues to design new products that are reliable, easy to use, and cost-effective.

One of our latest examples is the CoPilot® Max Turbo, a new feature-rich printing system that offers 360 dpi print resolution from multiple printheads, 2.8" print height, full-color touchscreen, and the option to run from a wireless tablet. The CoPilot Max Turbo offers users clean and reliable printing of bar codes, logos, and razor-sharp small character text.

Today, Squid Ink continues to focus on its core purpose to "help companies deliver products to the world." An expanding line of integrated products and services reflects Squid Ink's commitment to meeting new needs and new challenges, and ensuring that customers have reliable systems for their packaging application.

Squid Ink, Eastey, and American Film & Machinery (AFM) are all divisions of Engage Technologies Corporation. Squid Ink (squidink.com) is a manufacturer of coding and marking systems for product identification and traceability, providing superior quality inks and low-maintenance printing equipment. Eastey (eastey.com) is a leading manufacturer of heavy-duty shrink packaging equipment and automated case sealing systems for packaging applications. American Film & Machinery (afmsleeves.com) supplies shrink labelers and tunnels, shrink sleeves, and tamper bands.

Engage Technologies Corporation is headquartered in Brooklyn Park, MN with facilities in Big Lake, MN, Spring Lake Park, MN, The Hague, Netherlands, and Shanghai, China. The Company continues to expand sales and services, with authorized distributors strategically located throughout the U.S. and the rest of the world.



SQUID INK
an ENGAGE Technologies Company



See us at booth
S-3774



THE VIPER® THERMAL INKJET PRINTING SYSTEM

600 DPI OF HI-RESOLUTION CHARACTERS ON A VARIETY OF SURFACES



WORLD CLASS PRINTING SYSTEMS FOR REAL WORLD APPLICATIONS

Squid Ink introduces the Viper thermal inkjet printing system, utilizing revolutionary Funai® TIJ technology to print superior quality hi-resolution characters on porous or non-porous surfaces. The Viper utilizes proven, no-mess ink cartridges to print up to 600 dpi hi-resolution codes on a variety of coated and non-coated stocks, plastic, polystyrene, films, foils, metals, glass, and several other porous or non-porous substrates. The Viper is ideal for users looking to print high quality codes that dry in seconds.

The Viper is designed to meet the harsh demands of your coding and marking operation. The easy-to-mount printer and touchscreen with a compact footprint integrates seamlessly into your production line. The Viper's rugged design will withstand the most abusive industrial environments while still providing superior quality print.

A coding and marking leader for over 25 years, Squid Ink printers and inks are designed to keep your production line up and running day after day.

For more information, visit www.squidink.com or call **1-800-877-5658** for an Authorized Squid Ink Distributor in your area.

SEE US AT PACK EXPO - BOOTH S-3774

SQUID INK CODING & MARKING SOLUTIONS

HI-RESOLUTION PRINTERS / DOD LARGE CHARACTER PRINTERS / THERMAL INKJET PRINTERS
CIJ SMALL CHARACTER CODERS / LASER CODERS / UV LED CURING SYSTEMS
INK JET FLUIDS / PRINT VALIDATION SYSTEMS / CODING & MARKING SOFTWARE



ENGAGE technologies corporation

TEXWRAP

525 Vossbrink Drive Washington, Missouri 63090

Phone: (636)239-7424 Email: texwrap@promachbuilt.com

www.texwrap.com

Texwrap, a ProMach brand is centrally located in Washington, Missouri, and is the leader in the design and manufacture of fully automatic shrink wrapping, shrink bundling systems and E-commerce systems.

Known as the industry innovator, we hold patents on some of the most significant breakthrough technologies in the shrink-wrapping business. Our comprehensive line of cost-effective, high speed shrink wrapping and infeed solutions includes L-bar sealers, intermittent motion and continuous motion side sealers and vertical wrappers, as well as shrink tunnels - all made in the U.S.A. and backed by an industry leading warranty.

AT THE SHOW:

Texwrap is introducing the new SRX Series shrink bundler. The SRX Series provides several engineering upgrades for customers looking for a single roll bundler platform to handle a wide variety of packaged food and beverage products. The SRX Series creates shrink bundled packages with bullseye closures, using a bottom overlap seal technology for a strong seal and better product presentation.

The Kayat SRX Series is the collaboration of Texwrap's expertise in shrink wrapping, and the legacy that Kayat machines have held in the industry.

"The SRX Series is built upon the iconic Kayat shrink bundling machine platform. We took the strengths that attributed to its market success, listened to loyal customer feedback, and went to work incorporating Texwrap innovation and technological upgrades to make the next generation Kayat SRX Series," said Ingemar d'Agrella, Texwrap's Director of Engineering.

For more information contact Texwrap@promachbuilt.com and be sure to visit Texwrap at the show, booth N-5346

T TEXWRAP®



See us at booth
#N-5346

PROMACH®

Performance, Packaged

T TEXWRAP®

New Product Alert

► The next generation Kayat SRX Series of single roll shrink bundling systems is here.



Texwrap combined our experience making the industry's most innovative shrink wrappers with the Kayat legacy for developing top of the line single roll bundlers - the result is the new SRX Series of continuous motion single roll shrink bundlers.

Beverage and food companies interested in maximizing production and minimizing maintenance need to look no further. The SRX provides performance, flexibility, and ease of use.

FEATURES:

- **Toolless Adjustable Wrap Bar Assembly** - Easily adjust wrap zone for package height with no change parts
- **Easy Access Film Feed & Cut** - Slide out film feed and cut mechanism for easy maintenance
- **Uses Clear or Print Registered Film**
- **State-of-the-Art Air Flow Control** - Easily adjust air flow to create the most appealing appearance on the end product
- **Dual Roll Film Mandrels with manual splice** - Minimizes roll to roll changeover time
- **Updated Controls Package Including Predictive Maintenance** - Allen-Bradley HMI, with additional predictive maintenance flags for common wear parts
- **Made in the USA** - Built by Texwrap in Washington, MO

See the SRX in action at **Booth N-5346**
or find out more at www.texwrap.com/SRX

TRI-TRONICS COMPANY, INC

7705 Cheri Ct., Tampa, FL 33634

Phone: (813) 886-4000 Email: info@ttco.com

www.ttco.com

11 years ago, at the 2011 Pack Expo, Tri-Tronics shook the market with its robust Clear Label Sensor. In 2012 when the CLS was available, production took off and hasn't slowed down since. This was one of the first sensors to use ultrasonic sound technology for detecting a clear label application. And now we are doing it again with our new Clear Label Sensor-2. A smaller, simplified, and more economic clear label sensor. Bringing all the benefits from its larger predecessor but in a more compact body.

TRI-TRONICS has always been a leader in photoelectric sensors, rotary encoders, and elevator door protection. Since 1954, we've stayed on the cutting edge so our products remain easy to use, install and maintain. We understand our customers have a job to do and have no time for issues. That is why every one of our products is individually tested for durability and reliability so they stand the test of time.

Our mission is to amaze our customers, improve their business, and promote mutual prosperity. We recognize that our customers are king and no two companies are alike. This is why we tailor solutions to fit your needs and will do whatever it takes to help you succeed. We are not just another supplier, we listen to our customers, we listen to the market. That is why we developed the new CLS-2. Manufacturers needed a smaller clear label sensor.

Stop by booth S-1424 and see how Tri-Tronics can help meet your production needs.



TRI-TRONICS®



See us at booth
S-1424

TRIANGLE PACKAGE MACHINERY COMPANY

6655 West Diversey Ave. • Chicago, IL 60707 • USA

Phone: 773/889-0200 Email: info@trianglepackage.com

www.trianglepackage.com

KEEPING FOOD SAFE SINCE 1923

Triangle has built a legacy of designing & building sanitary packaging equipment that has stood both the test of time as well as harsh washdown environments. Today the family's 3rd generation carries on that tradition with superior engineering, a world-class manufacturing facility in Chicago, IL (USA) & unparalleled customer support. Join us in Chicago as we kick off our celebration of 100 years in business!

VFFS BAG MACHINES

Keeping food & workers safe are our top priorities. Our VFFS baggers are designed with sanitation & ease-of-use in mind. Triangle baggers meet USDA/3A & FSMA standards. All models come with an open, accessible design, sanitary forming tubes & sloped surfaces for easy run-off. Easy-changeover features include no-tool forming tubes, sealing jaws & film rolls.

PRE-MADE POUCH FILLERS/SEALERS

Our rotary pouch machine is designed to run various styles, including Doy bags & has the ability to store up to 48 recipes on the HMI.

MULTIHEAD WEIGHERS

Offering unmatched accuracy & speed, our family of inline multihead weighers provides even product distribution & fewer missed cycles. Our inline weighers mount directly on top of Triangle VFFS baggers, saving valuable floor space & eliminating the need for costly mezzanines.

BAG-IN-BOX CARTONERS

Our Flex 1 cartoning solution is ideal for bag-in-box applications such as cereal, rice, cake mix & more. Key features include quick & simple 3D changeover, single- or twin-pack bag capability, servo drives & compact footprint. Pairing a Triangle inline weigher & VFFS bagger with this compact cartoner provides a great integrated bag-in-box system.

SUPERIOR SERVICE & SUPPORT

Field service is available out of our Chicago headquarters as well as regionally throughout the US. Our 22 service technicians offer an average tenure of 18 years servicing Triangle equipment. Spare parts are manufactured in our Chicago facility & typically ship the same business day.



See us at booth
S-1700



THE FUTURE OF KEEPING FOOD SAFE



Zipper packaging has never been simpler or more sanitary for protein, produce and frozen food processors. Easily package bulky foods in bags that fully open while ensuring food safety. Quick change jaws offer ultimate versatility.



TRIANGLE
PACKAGE MACHINERY COMPANY

800.621.4170 ▲ trianglepackage.com

SEE THE
UNVEILING AT
PACK EXPO!

SHRINK SLEEVE EQUIPMENT, SHRINK SLEEVE LABELING, BEVERAGE REPACK & CRAFT CANS

401 Milford Pkwy, Milford, OH 45150

Phone: 1-866-900-1255 Email: info@tripack.net

www.tripack.net

Tripack is an industry leader in the manufacturing and integration of shrink sleeve application systems for shrink labeling, tamper evident banding, and multi-pack applications. Family owned since 2003, Tripack provides packaging solutions and services that are backed by a 3-year warranty program – unmatched in our industry!

Shrink Sleeve Equipment:

Our custom engineered shrink sleeve systems are designed for simple setup and quick changeovers to maximize uptime. We have shrink sleeve solutions for a wide range of production requirements, from entry-level speeds of 50 ppm up to fully integrated high-speed systems capable of 800 ppm. These solutions can be supplied as individual machines or complete turn-key systems, which include applicators, shrink tunnels, conveyors, and special product handling components.

Shrink Sleeve Labeling & Specialty Packaging:

Complimentary to our equipment/systems manufacturing, we also provide contract shrink sleeve packaging and fulfillment services. Our highly automated packaging center features a series of production lines capable of a wide variety of applications.

Our expertise in the design and manufacturing of these specialty systems provide us with a unique and competitive advantage in also offering 3rd party packaging services. These services include:

- Shrink Label Decoration
- Seasonal and Promotional Packaging Initiatives
- Variety and Multi-Pack Cartonning
- Quick-to-Market Projects

Beverage Repack and Craft Cans:

High level customization, both in brand identity and product offering, has become the name of the game in the craft marketplace. We believe innovative design execution leads to a strong presence on the shelf, resulting in brand growth. Additionally, we can repack your bottles and cans into a variety of configurations like variety & multi-pack cartons, shrink bundled trays or bulk pallets. We can even help you source your packaging materials!



See us at booth
N-4933



Shrink Sleeve Solutions



YOUR SINGLE SOURCE SOLUTION FOR:



**SHRINK SLEEVE LABELING
& SPECIALTY PACKAGING**



**BEVERAGE REPACK
& CRAFT CANS**



**SHRINK SLEEVE
EQUIPMENT**



UNIVERSAL LABELING SYSTEMS

3501 8th Avenue South St. Petersburg, Florida 33711

Phone: 727/327-2123

Email: sales@universal1.com

www.universal1.com

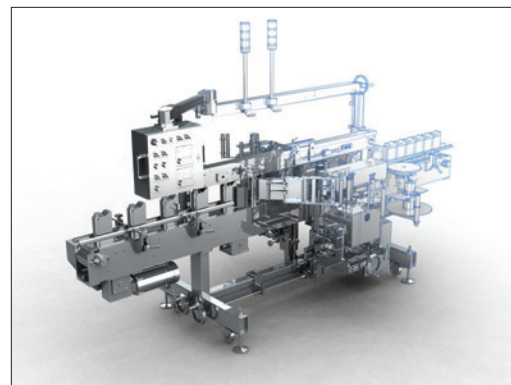
When it comes to labeling, you only need to know one thing...OUR NAME. At Universal Labeling Systems, it's all we do. Since 1984, Universal has been a leader in pressure sensitive machinery.

We do one thing, and we do a lot of it. No other labeling machinery company can lay claim to as many standard and uniquely designed labeling systems. We incorporate innovations to best suit your labeling needs. Even when designing low volume semi-automatic equipment, ULS sets the bar high for quality and reliability.

All our machines are designed and built in the USA at our St. Petersburg, Florida facility. Our engineering staff, using the very latest in design and modeling software, utilizes many years of labeling machinery and product handling experience. These engineering designs move from 3-D CAD drawings to being produced in our in-house fabrication facility. The finely-machined components come together in our assembly facility where the systems are built and tested in accordance with your products and labels.

Your ULS machine is sold and supported through a worldwide network of Authorized Distributors, and backed up by our expert technical staff. Product manuals include machine specifications, set-up and operational details, maintenance, trouble shooting, and recommended spare parts.

Our Pledge: "All equipment manufactured by Universal Labeling Systems carries a 30-day performance guarantee. If your labeling machinery does not perform as stated... we will take your machine back and reimburse you in full." From 1984 up to today, we continue to honor this pledge.



UNIVERSAL
labeling systems



See us at booth
N-5512

VALCO MELTON

497 Circle Freeway Drive, Suite 490. Cincinnati, OH 45246

Phone: 513.874.6550

Email: info@valcomelton.com

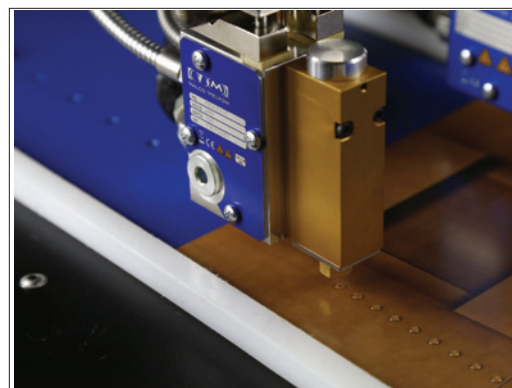
www.valcomelton.com

For over 65 years Valco Melton has been developing next-generation solutions and enhancing industry-standard systems for paper converting and other specialty adhesive dispensing industries across the world. A global corporation, Valco Melton's service and sales network support customers from over 96 countries. Striving to constantly improve technical advances, Valco Melton has been saving companies millions in adhesive savings and quality production with our EcoStitch™ line.

The EcoStitch™ solution is an all-electric hot melt application solution with melter options including small tankless systems as well as larger sized traditional melters. The EcoStitch™ solution significantly reduces the amount of hot melt that is required for sealing cases and cartons while implementing a "large, nozzle-low pressure" application method which is opposite from any other competitive solution.

The new EcoStitch™ melter series is the most intelligent, versatile, technologically advanced and most innovative adhesive melter to ever be created. With Ethernet IP integration, digital pressure control, adhesive usage data available on screen and full OEM integration with all digital based data.

To learn more, visit www.valcomelton.com



See us at booth
S-3483

VDG (VAN DER GRAAF)

13771 Cavaliere Drive, Shelby Township, MI, 48315 USA

Phone: 888/326-1476

Email: info@vandergraaf.com

www.vandergraaf.com

VDG is the leader in the design and manufacturing of drum motors for all types of belt conveyor applications. With a strong focus on reliability and longevity, VDG has provided robust and efficient conveyor drive solutions to the material handling and food processing industries for over 35 years through innovation, R & D, and precision manufacturing. Manufacturing in-house in USA and Canada, using cutting-edge production technology, VDG ensures product quality, fast delivery and exceptional customer support.

The high-efficiency VDG Drum Motor encloses all drive components, including the motor, gear reducer, and bearings, inside the drum, increasing mechanical and electrical efficiency, optimizing space, and promoting operator safety. All components are designed for 80,000 hours of continuous operation before maintenance, reducing operational and maintenance costs and increasing productivity. VDG Drum Motors are available in a range of diameter sizes, belt speeds, horsepower and industry specific options and features to suit various belt conveyor applications.

The IntelliDrive™ Drum Motor features new synchronous permanent magnet motor technology, delivering 40% increased electrical efficiency with much wider belt speed selection without loss of torque compared to a standard induction motor. With all drive components housed internally, the IntelliDrive™ achieves a 96% mechanical efficiency, further decreasing energy consumption and costs.

The VDG patented IronGrip™ lagging offered for the drum motor, extends the life of the belt reducing the cost of maintenance. It improves belt tracking, increases belt traction by 40%, eliminates uneven belt wear, and has 4-5 times longer service life compared to standard lagging.

For sanitary belt conveyor applications, the hygienic SSV Drum Motor has the belt profile machined directly onto the all-316 stainless steel drum and drives modular conveyor belts without the use of sprockets, eliminating gaps and crevices, increasing hygiene, and reducing washdown time and water usage by 50%. It features an IP69K sealing system, withstands washdown pressure up to 3,000 psi, and exceeds industry sanitary and safety standards.

The latest hygienic SSV-XP Drum Motor is designed with an exchangeable machined profiled sleeve which enables different styles of modular conveyor belts to be used with the same drum motor. Visit VDG Booth S-3566 to see a demonstration of how quickly and easily the profiled sleeve on the SSV-XP Drum Motor is changed from one profile sleeve to another.



See us at booth
S-3566

VDG Drum Motors

Reliable. Efficient. Low-Profile.
Conveyor Drive Solutions

The VDG Drum Motor is a robust conveyor drive with all drive components enclosed inside the drum and designed for 80,000 hours of continuous operation before maintenance, reducing energy and maintenance costs, and increasing run-time.

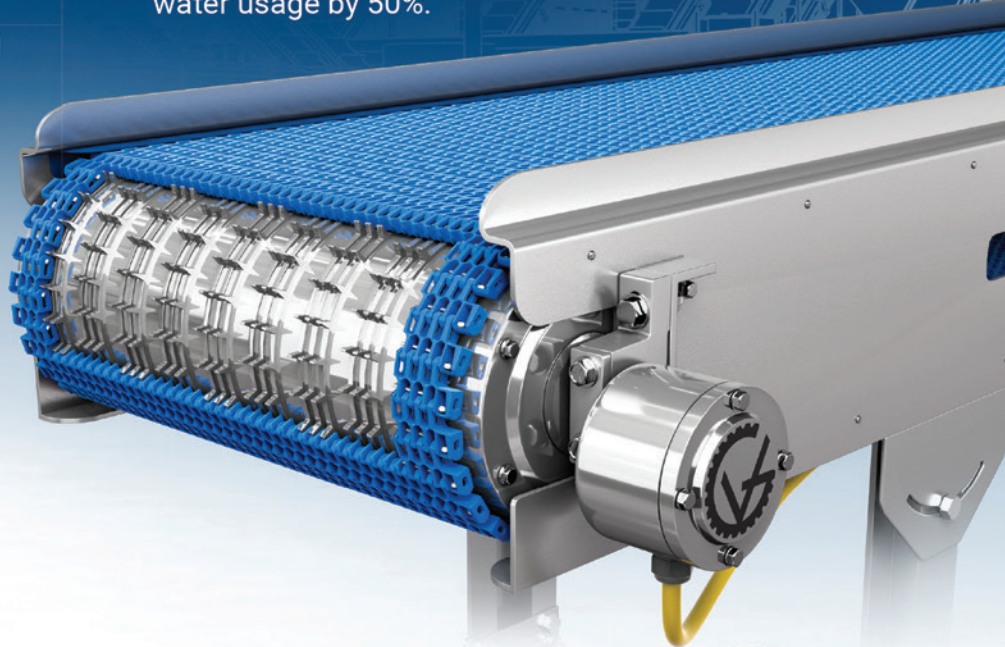


IronGrip™ Lagging

- ▶ **IMPROVES** Belt Tracking
- ▶ **INCREASES** Belt Traction by 40%
- ▶ **EXTENDS** Lifespan of the Conveyor Belt



The SSV Series Drum Motor drives modular conveyor belts without the use of sprockets, eliminating gaps and crevices, increasing hygiene and reducing washdown time and water usage by 50%.



Visit Booth S-3566
See Demo of our NEW
SSV-XP Drum Motor



vandergraaf.com/PE
(888) 326-1476 | info@vandergraaf.com



VIDEOJET TECHNOLOGIES

1500 Mittel Blvd., Wood Dale, IL 60191

Phone: 800/843-3610 Email: info@videojet.com

www.videojet.com

Videojet Technologies is a world leader in the product identification market, providing in-line printing, coding, and marking solutions, application-specific fluids, and product life cycle services.

Videojet partners with customers in the consumer packaged goods, pharmaceutical, and industrial goods industries to improve their productivity, to protect and grow their brands, and to stay ahead of industry trends and regulations.

With customer application experts and technology leadership in continuous inkjet (CIJ), thermal inkjet (TIJ), laser marking, thermal transfer overprinting (TTO), case coding and labeling, and wide array printing, Videojet has more than 400,000 printers installed worldwide. Customers rely on Videojet products to print on over ten billion products daily.

Taking advantage of the Internet of Things (IoT), VideojetConnect™ allows customers to leverage the Videojet equipment already on their lines to gain visibility into their packaging line operations. VideojetConnect software can gather finished goods data, packaging line production rates and line stops, quantities produced and time frames, and more.

Millions of hours of real-world printer data informed the Videojet 1880 continuous inkjet printer's design, resulting in the company's easiest to use and maintain printer. To help deliver superior levels of uptime, the Videojet 1880 continuously monitors and tracks printer parameters so the user can proactively address potential printer issues and help ensure that the production line operates without interruption. The 1880 printhead incorporates a unique sensor to enable the detection of buildup in the printhead, alerting the user to potential print quality issues. Line integration and code management capabilities help to both reduce the potential for human error and ensure that the right code is printed at the right quality, every time.

Videojet redefined fiber laser technology and integration with the Videojet 7340 (20-Watt) and 7440 (30-Watt) fiber laser marking systems. They are the first fiber lasers to feature the Lightfoot™ marking head, the smallest in the industry and IP69 rated for use in washdown and harsh environments. The Videojet 7340 and 7440 lasers are designed to deliver high-quality, permanent codes for a wide range of marking applications. The lasers are an ideal choice for many food, beverage, consumer packaged goods, pharmaceutical and cosmetics manufacturers.



See us at booth
S-2042

Harness the collective intelligence of 10,000 cloud-connected printers



The smart Videojet 1880 continuous inkjet printer

Designed to help you avoid manufacturing downtime

The Videojet 1880 CIJ printer builds upon comprehensive insights gained from the fleet of cloud-connected Videojet printers, the largest in the industry, to enable your journey towards Industry 4.0.



Discover the
Videojet 1880



VIDEOJET

**“DO
COMMON
THINGS...**



**...IN AN
UNCOMMON
WAY”**

- Dabo Swinney



Department of
**FOOD, NUTRITION, AND
PACKAGING SCIENCES**
Clemson® University

WEBER PACKAGING SOLUTIONS

711 West Algonquin Road • Arlington Heights, IL 60005 • USA

Phone: 847/364-8500 Email: info@weberpackaging.com

www.weberpackaging.com

When you need mission-critical labeling systems that will be reliable, cost-effective, and easy to use, you need a partner that you can trust. Weber Packaging Solutions is a family-owned labeling company that has been helping customers look their best for 90 years.

We provide turn-key labels and labeling solutions that, whether locally or globally, can change labeling nightmares into labeling dreams. With experience in just about every industry, we make sure you succeed in getting your product labeled correctly.

Weber Packaging has been printing labels for thousands of companies, large and small, since the advent of pressure-sensitive labels. And over that time we have realized that the most important part of the label creation process is the team behind it. Label pre-press experts, press operators, quality inspectors, packers and more. And to apply your labels, Weber designs, fabricates and assembles a wide selection of standard and customized label applicators and label printer-applicators. These systems feature high-speed, precise label placement along with unsurpassed reliability.



See us at booth
S-3642

Weber®

Packaging Solutions

The Future of High-Speed Labeling

Weber is introducing new high-speed print-apply labeling systems that have the features you want like powered servo-controlled rewinders, vision label alignment, variable height labeling, and efficient modular design.

These high-speed systems are a perfect fit for busy distribution centers, warehouses, food packaging and pharma applications.

For over 90 years, Weber has been innovating and manufacturing new products for the packaging industry that have changed the world. And we can help you.



*We Identify
Your World*



www.weberpackaging.com
Locations Worldwide



WEXXAR BEL

13471 Vulcan Way, Richmond, BC, Canada V6V 1K4

Phone: 1-888-565-3219 Email: Wexxar@ProMachBuilt.com

www.Wexxar.com

Wexxar Bel is the industry leading designer and manufacturer of corrugated case and tray, forming and sealing machinery. With our unmatched experience and customer first approach, each machine is built with the customer experience in mind. Our premium machines provide reliable high performance which are guaranteed to meet your packaging needs.

Our promise to you continues well after your purchase, with our talented support and service team, ready to answer or support you with any of your questions. With our unmatched experience and customer first approach, each machine is built with the customer experience in mind. Our premium machines provide reliable high performance which are guaranteed to meet your packaging needs. Our industry leading support network brings you peace of mind and will get you back up and running quickly and efficiently.

At Pack Expo Chicago, we will be introducing the next generation of our unitized form, pack and seal systems, the BEL 5150U V2. This latest generation takes improvements from the BEL 505 V2 and implements them on the unitized platform while making even further design improvements. Better efficiency while improving construction quality and design means less wear and tear while extended overall machine life. The BEL 5150E e-commerce machine will also be showcased with our Smart Select System, showcasing what the machine can really do when properly implemented with an ERP/WMS System. IPAK will also be bringing a tray former based on the recently launched TF385/485/486 platform, but running a much smaller tray than usual, highlighting the flexibility of both the machine and IPAK's capabilities as a whole.



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Michael Schlaeger, V.P General Manager
Kelvin Binns, Sales Director, CPG
John Carlin, Sales Director, Healthcare

WIPOTEC-OCS weighing, inspection, and product tracking solutions serve a wide variety of customer needs. We are part of the WIPOTEC group, pi-oneers in dynamic weighing and inspection technology for over 30 years. The design and manufacture of our EMFR weigh cells, checkweighers, X-Ray scanners and TQS machines takes place in Kaiserslautern, Germany. Wipotec's North American head-quarters is located in metro Atlanta, and includes product demonstration showrooms, customer application engineering labs, a massive spare parts warehouse, and state-of-the-art training rooms.

Checkweighers and Weigh Cells

All of our checkweighers and industrial scales feature Wipotec EM-FR-based weigh cells. Our Pack Expo booth will include a wide range of weighcells on display as well as two demos. This core technology delivers the reliable precision, and the fast product weighing times that WIPOTEC-OCS checkweighers are known for throughout the world. The HC-A-VI on display at PACK EXPO is the flagship of our checkweighers. This high-speed packaging line work-horse delivers outstanding weighing accuracy and repeatability at line speeds of 600 pcs/min. The machine's modular design easily inte-grates into both new and existing packaging lines.

All in One Inspection

The new "Weigh and precision checkweighing and X-Ray foreign objects detection will be on display at PACK EXPO. The All-in-One Inspection unit, which combines two prime quality assurance functionalities – X-ray foreign objects detection and precision checkweighing – with an enhanced vision system capable of verifying label placement, barcode legitimacy, film detection and validation of expiration. The separate control cabinet also provides an added level of application flexibility.

TQS Modular Serialization and Aggregation

Modular TQS machines for healthcare product serialization and aggregation (i.e. Track & Trace) maximizes packaging safety and security while enabling manufacturers to meet all local requirements stipulated by global compliance legislation. The booth will be running a track & trace simulation to illustrate how the machines are used for pharmaceutical packaging.



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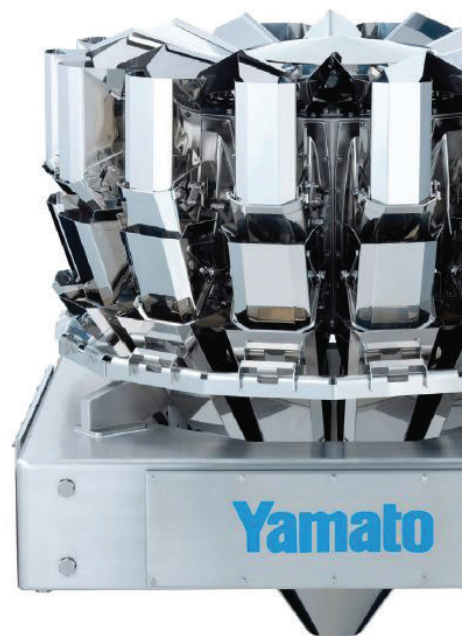
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Our industrial GP-series robots and collaborative HC-series robots provide exceptional speed and precision for a wide range of handling tasks. This includes the industry's first IP67-rated collaborative robot, the HC20DTP, that enables palletizing of full 80-inch pallets without requiring an elevator or lift mechanism, as well as the versatile six-axis GP4 robot that can be used as an alternative to SCARA-style robots typically used in electronics, confectionery and small parcel sortation.

The leading provider in motion automation, our value-added products like PalletSolver® for offline pallet pattern generation and MotoPick™ for synchronized picking allow for maximum efficiency. Singular Control unifies every component of a robotic picking, packing and palletizing operation under a common system architecture, and the MLX300 software option enables operators to control and program Yaskawa robots in a standard PLC programming environment.

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