

# Pack Expo 2016

## (What You Need to Know Before You Go)

Matthew Jaster, Senior Editor

**Pack Expo takes place November 6-9 at McCormick Place in Chicago.** With 2,100 exhibitors, it's the world's largest most comprehensive processing and packaging trade show in 2016. The expo includes full-scale machinery in action as well as new packaging technologies, solutions for 40+ vertical markets, free educational opportunities (Innovation Stage, Food Safety Summit Resource Center and the Reusable Packaging Learning Center). Pack Expo features four international pavilions including the Containers and Materials Pavilion, the Confectionery Pavilion, the Processing Zone and the Reusable Packaging Pavilion. Show hours are Sunday, November 6 through Tuesday November 8 from 9:00 am to 5:00 pm and Wednesday, November 9 from 9:00 am to 3:00 pm. Pack Expo International offers attendees the chance to see technologies in motion, meet with packaging suppliers, explore technology for their industry and get ideas from other markets, including automotive, food and beverage, hardware, household products, metals, paper, pharma, textiles and more.

### Co-located with Pharma Expo

Pharma Expo offers pharma, biopharma, medical device, personal care and nutraceutical manufacturing professionals a premier tradeshow experience. Attendees will see technology, equipment and machinery in action from over 250 top-tier suppliers serving the pharmaceutical supply chain, learn about the latest breakthroughs from technology suppliers right on the show floor and in free seminars at the Innovation Stage, and network and talk shop with 10,000+ industry peers—and another 45,000+ processing and packaging professionals at Pack Expo International. The Pharma Expo Innovation Stage will feature 12 sessions while the Pharma Packaging track will feature five sessions.

### Education Spotlight

Here is a sample list of educational sessions that may be of interest to PTE readers during the show:

- “How the Industrial Internet of Things (IIoT) Provides a Critical Competitive Edge in Manufacturing.” *Monday, November 7 10:00–10:30, Presented by Paul Boris, GE Digital*
- “Safety Performance Requirements for Modern Scalable Machines.” *Monday, November 7 1:00–1:30, Presented by Sari Germanos, B&R Industrial Automation*
- “Remote Monitoring.” *Monday, November 7 1:00–1:30, Presented by Doug Weber, Rockwell Automation*
- “Advances in Chain Technology Provide Solutions for a Variety of Problems Commonly Found in the Food Packaging Industry.” *Monday, November 7 3:00–3:30, Presented by Aimee Ray, Renold Jeffrey*

- “Building a Smarter Machine.” *Tuesday, November 8 10:00–10:30, Presented by Steve Mulder, Rockwell Automation*
- “Getting Connected: The Importance of Visibility on the Plant Floor.” *Tuesday, November 8 11:00–11:30, Presented by Paul Boris, GE Digital*
- “Creating a Positive Consumer Experience: How to Leverage the Benefits of Ultrasonic Technology in Packaging.” *Tuesday, November 8 12:00–12:30, Presented by Hans Neisser, Emerson*
- “Cloud-Connected Industry Powers Continuous Improvement.” *Tuesday, November 8 1:00–1:30, Presented by Daymon Thompson, Beckhoff Automation*
- “A Progressive, Simple and Rapid Approach to Boost Small and Medium-Size Manufacturing Companies Operational Efficiency and Reach Smart Factory ... Connect, Monitor, Improve.” *Tuesday, November 8 3:00–3:30, Presented by Marc Vermette, Worximity Technologies Inc.*
- “Machine Performance, OEE and IIoT Connectivity Made Easy.” *Wednesday, November 9 11:00–11:30, Presented by Lucian Fogoros, Schneider Electric*

## Pack Expo Booth Previews

### Siemens Industry Inc. (N-4941)

Siemens recently announced the immediate availability of its popular Sinamics G120C drive in AA size, which replaces the previous G120C frame size A in power ratings up to 2.2kW (3hp), including communication variants for USS, PROFIBUS, PROFINET and EtherNet/IP. Offering high power density in a smaller footprint, the new “tiny drive” offers a fully compatible replacement for the equivalent power ratings on the previous version.

On new control cabinet designs, the G120C FSAA has significant size advantages, up to 32% less overall volume, for the OEM or integrator, but requires no re-engineering, when migrating from the G120C FSA on current jobs. Overall dimensions on the smaller unit, designed for use with PROFIBUS and USS variants, are only 173 mm high × 73 mm wide × 155 mm deep (6.8" × 2.8" × 6.1").

Other benefits of the new G120C FSAA include use with increased motor cable lengths, up to 50 m (165 ft) for shielded





and 150 m (495 ft) for unshielded, plus identical voltage ratings, current ratings, load cycles and compatibility with all standard Siemens options such as operator panels, input and output chokes, as well as external Class B EMC filters. The G120C FSAA offers UL open type, IP20 protection in the 0.55–2.2 kW (0.75–3 hp) range.

Siemens new Simatic S7-1511C and S7-1512C compact controllers combine an S7-1500 CPU with digital/analog IO and technology built into the hardware delivering a cost effective and space saving design.

The latest additions to Siemens popular S7-1500 controller family feature exceptionally- compact designs, making them ideal for production machine applications. The S7-1511C controller is just 85 millimeters wide and offers 32 digital IO ports. The S7-1512C includes 64 digital IO connections and is only 110 millimeters wide. Expandable with signal modules, the S7-1511C has a bit performance of 60 ns and the S7-1512C is 48 ns.

Both compact CPUs include standard S7-1500 design features such as built in display, two port PROFINET connection, integrated Web server and standard S7-1500 internal functionality.

Engineered with Siemens TIA Portal, the controllers offer all the standard S7-1500 high-performance functions, including variant management, automatic address adjustment and option handling. Key technology functions such as metering, measuring, and positioning are already integrated into the hardware.

**For more information:**

Siemens Industry, Inc.  
Phone: (847) 640-1595  
[www.usa.siemens.com](http://www.usa.siemens.com)



**Baldor Electric Co. (E-6704)**

Here are a few products and technologies Baldor will be highlighting during the show:

**Washdown Duty Motors**

Baldor offers the widest variety of washdown duty motors available from stock. Better performance and reliability are the inspirations behind Baldor’s new and improved wash-



down duty motors. This was accomplished by adding features like an improved paint system, Baldor’s Inverter Spike Resistant insulation system, Class F insulation with Class B (or lower) temperature rise, Mobil Polyrex EM grease, customer-friendly drain plugs, and shaft seals. SSE motors feature all stainless steel construction provide superior protection against high pressure cleaning with features for reliable operation and low cost of ownership.

**Ultra Kleen Gearing and Bearings**

Ultra Kleen gear reducers feature a totally enclosed ventless sealing system containing a factory filled synthetic lubricant that eliminates the need for routine oil changes. The Ultra Kleen Quantis and Tigear-2 are capable of withstanding high pressure washdowns with caustic chemicals and the ideal solutions for food handling industrial applications.



Ultra Kleen ball bearings feature a stainless steel insert available in both polymer and stainless steel housings. The insert includes the patented QuadGuard seal and Maxlife cage which protects the bearing in extremely harsh environments and provides extended life. The combination of corrosion resistant features and advanced sealing make the Ultra Kleen bearing suitable for demanding applications found in the food and beverage industry. The Ultra Kleen ball bearing received the first Manufacturer Excellence Award presented by the Bearing Specialists Association (BSA) for innovation and excellence in product design and technology.

### Baldor Dodge Raptor Coupling

The Baldor Dodge Raptor coupling, with patented WingLock technology, features a finite-element optimized winged elastomeric element design. The Raptor provides longer driven equipment life and improved reliability. Raptor's patented WingLock technology increases surface area at the most critical regions of the element, resulting in higher bond



strength, improved fatigue resistance, and longer life than competitive urethane designs. A non-lubricated natural rubber element results in lower stiffness, improved vibration damping, and industry leading misalignment capabilities.

For reduced maintenance, the Raptor offers a split element for easy installation and replacement without moving or re-aligning connected

equipment. Slotted clamp ring holes offer extra clearance for mounting hardware, resulting in a noticeably easier installation. Designed for drop-in interchangeability, Raptor couplings work in existing applications without any modifications.

Suitable for a broad range of industrial applications, Baldor Dodge Raptor couplings are third-party ATEX certified for use in hazardous environments. Raptor elements are also available with an Armored Element that exceeds ASTM 1149-07 rubber deterioration standards for use in extreme environments.

### ABB Servo Motors

Offering a variety of AC and DC servo motors for industrial, automated applications designed for durability in harsh environments, the company also provides a wide choice of high or low inertia motors with winding options, feedback devices and gearheads to match.

#### For more information:

Baldor Electric Co.  
Phone: (479) 646-4711  
[www.baldor.com](http://www.baldor.com)



### Regal Power Transmission Solutions (N-4746)

Regal, a manufacturer of electric motors, electrical motion controls, power generation and power transmission components, will debut its MODSORT modular transfer and diverter station in their booth (N-4746) during Pack Expo International 2016 in Chicago beginning November 6. This new transfer eliminates the need for a lift or pneumatics and can be easily integrated into new or existing material handling systems with the ability to transfer a wide array of products.

The MODSORT station features the System Plast 2253RT



roller top belt, which allows it to uniquely transfer and divert packages based on the sphere's vector speed and direction while also featuring a 1-inch, on-center sphere array to allow for very small packages to be diverted. The station can divert on the fly or stop and divert at a true 90-degree angle, and is ideal for polybags and small packages while also easily handling boxes.

MODSORT stations can be placed end to end to create a medium-rate sorter or integrated with conveyors to create transfer stations within conveyor systems. Customization is possible for picking and packing stations within the modern distribution center. Additionally, retrofitting the station into existing conveyor systems is also possible.

Additionally, the company will feature SyMax variable-speed motors from Marathon Motors. These motors exceed European IE4 efficiency levels and the permanent-magnet design is exceptionally power dense, resulting in a 2-3x frame size reduction. SyMax motors minimize energy re-



quirements with an optimized fan design, precision-wound stator, and elimination

of rotor conductor losses. Capable of constant torque over a wide speed range, SyMax motors can be combined with HERA reducers for gear motors with double the torque density and a lower cost-to-torque ratio than standard systems. They are a drop-in replacement for induction motors, utilizing the same footprint, shaft height and other IEC/NEMA dimensions.

**For more information:**

Regal Power Transmission Solutions  
Phone: (859) 727-5271  
[www.regalpts.com](http://www.regalpts.com)

**Fenner Drives (E-9701)**

Eagle SureConnect, an innovation from Fenner Drives, radically reduces the complexity of installing polyurethane belting—slashing downtime and associated labor costs. Countless industrial and manufacturing processes rely on uninterrupted service from conveyors. In the past, broken belts meant lengthy line interruptions while a trained welder carried out repairs and the weld cured, sometimes inadequately. Meanwhile, productivity suffered. If a belt isn't adequately welded and cured, premature failure is likely to result. Many lines operate with four or six belts, so the potential for costly downtime is multiplied.

Eagle SureConnect enables lines to be properly repaired

and returned to service in approximately five minutes, in contrast to almost 40 minutes with traditional welding. The system relies on a patentpending flexible connector and unique matching polyurethane belting. Two belt ends are joined together simply by twisting in a threaded connector, providing a strong, consistent, sure connection every time. Because welding isn't needed, users can save the purchase of welding equipment and eliminate the need to bring in a skilled welder when a conveyor belt breaks. Anyone on the maintenance staff can handle the repair immediately; extensive welding training is not required.

"The Eagle SureConnect takes belt repairs from an art to a science," said Tyson Gabler, Fenner Drives product manager. "Performance-wise, it's at least as good as the old way of doing things, just as strong and long-lasting. Eagle SureConnect gives the confidence that welds are done right every time." The new system has received rigorous flex fatigue, tensile strength and elasticity testing to ensure performance in any standard welded belt application.

**For more information:**

Fenner Drives, Inc.  
Phone: (717) 665-2421  
[www.fennerdrives.com](http://www.fennerdrives.com)

**DENALI**  
BEARING *Solutions*

- ✓ Corrosion Resistant
- ✓ High Temp. & High Fatigue Life
- ✓ Dimensionally Unique Bearings

MADE IN THE USA

✓ ISO9001:2008 CERTIFIED

✓ AS9100C CERTIFIED

Short Lead Times • Small & Large Orders • Unique Materials • Application Engineering

**Napoleon Engineering Services**  
[www.nesbearings.com](http://www.nesbearings.com) • [sales@nesbearings.com](mailto:sales@nesbearings.com)

**CALL TODAY! (877) 870-3200**

**What's Next in 2017?** With little more than a year to go, the 2017 installment of Pack Expo Las Vegas and Healthcare Packaging EXPO (Sept. 25-27; Las Vegas) is already positioned to surpass its 2015 numbers, according to Pack Expo producer, PMMI, The Association for the Packaging and Processing Technologies. At the completion of exhibitor booth selection, Pack Expo Las Vegas is up 10 percent with nearly 700,000 nsf sold and Healthcare Packaging Expo is up 20 percent, compared to this same number of weeks out in 2015. The show is expected to be a sold-out event with 2,000+ exhibiting companies.

According to 2015 show statistics, 86 percent of attendees recommend, influence or make the final buying decision in the purchasing process.

With an expected 30,000 attendees in search of new innovations and technologies in the packaging industry, Pack Expo Las Vegas will showcase key products and decision makers.

"We're very encouraged by the number of exhibitors that have already secured booth space at Pack Expo Las Vegas and Healthcare Packaging Expo 2017," says Charles D. Yuska, president and CEO of PMMI.

"It demonstrates the value the show delivers to exhibitors in the packaging supply chain."

Pack Expo Las Vegas will host top CPGs from around the world, providing a wealth of opportunities for exhibitors to connect with potential buyers. Beyond the technologies exhibited on the show floor, attendees will find tremendous value in the wide array of educational opportunities to round out their Pack Expo experience.

Booth space is now available on a first-come, first-served basis — and selling fast. **PTE**

**For more information:**

PMMI  
Phone: (571) 612-3200  
[www.packexpolasvegas.com](http://www.packexpolasvegas.com)



# DieQua offers more gearboxes

## Are You Selecting The Right Technology?

Whether your application is for precise motion control or for general power transmission, there are several gear technologies that can do the job. But which one does it best?

Only DieQua offers the widest range of gearmotors, speed reducers and servo gearheads along with the experience and expertise to help you select the optimal solution to satisfy your needs.

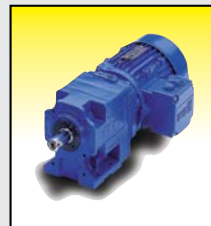
**If you are using gearboxes, you should be talking to DieQua!**

**DIEQUA**  
Corporation  
[www.diequa.com](http://www.diequa.com) 630-980-1133

### Power Transmission Solutions



Worm Reducers

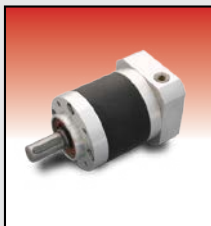


Helical Gearmotors

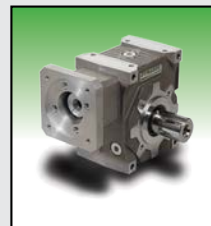


Spiral Bevel Gearboxes

### Motion Control Solutions



Planetary Gearheads



Servo Worm Gearheads



Precision Cycloidals