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# WELCOME TO THE 2023 ASSEMBLY SHOW



THE  
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SHOW

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Welcome to The ASSEMBLY Show!

On behalf of the entire ASSEMBLY Team THANK YOU to each and every attendee, exhibitor, sponsor, and speaker that brings this event to life each year. The contributions and commitment from you as part of the ASSEMBLY brand industry community has made manufacturing stronger by every measure.

The ASSEMBLY Show is all about providing manufacturing professionals with everything needed to adapt to new challenges, expand into new markets, and streamline your business to grow efficiently in the years ahead. Assembly technology is changing at an incredible pace. What was all new last year is already improved, and what is coming will be amazing. The possibilities are truly endless and the heights that will be reached are up to you.

You will notice The ASSEMBLY Show has a new look this year! It's the same dependable brand hosting the same event you've known and loved for over 11 years, but with new colors and features to explore.

At The ASSEMBLY Show you will see new technologies and opportunities with every exhibitor. There is nothing digital that can replace a face to face conversation with another industry professional who will listen and interact with you one on one to make your ideas realities! I encourage you to stop and consider each of the exhibitors and talk with them about why they are here to see you. You are going to learn some exciting things if you do. No really, talk to all 220+ of these companies that came here to talk to you!

You're here, now make the most of every minute! Attend our NEW Tuesday Conference Program featuring 24 presentations & workshops, over a dozen Learning Theater presentations, a noteworthy keynote presentation, six guided exhibit hall tours with ASSEMBLY Editors (yep, the ASSEMBLY Editors are in the building and they are eager to meet you!), or simply explore the exhibit hall and take your time as if you are at a giant amusement park. I'll hope you enjoy the Taste of Rosemont on Tuesday, and have a great time at our Wednesday evening Pub Night networking event! And don't forget the Morning Mingle Breakfast on Thursday morning on Main Street! PLUS - new for this year is the official 'PINK OUT DAY' on Thursday, in honor of breast cancer awareness month. Make sure to dress in PINK and make a donation!

No matter what you're looking for at The ASSEMBLY Show, I'm confident that your time with us over the next 3 days will provide you with valuable information on the latest industry trends and fresh insights on how to improve your processes and bottom line.

It's our pleasure to have you as a guest at The ASSEMBLY Show! If there's anything that I or the ASSEMBLY staff can do to make your visit more productive, enjoyable, or positive, please don't hesitate to let us know. It's my sincere hope that you'll leave The ASSEMBLY Show better informed, better connected, and better prepared to meet the challenges you face as an assembly professional.

Thank you,

**Bill DeYoe**  
Publisher  
ASSEMBLY Magazine

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# AGENDA | TUESDAY, OCTOBER 24

➤ 9:00 AM – 9:40 AM

## **TRACK 1** Influencing the Design – Design for Automation

**Andy Saemann, Hypertherm Inc.**

Labor shortages, high operating costs, supply chain challenges, and intense competition have made first-time-right design critical for reducing the cost and complexity of a value stream. However, product designers often overlook manufacturability and ease of assembly when balancing various factors in their designs. As a result, manufacturing engineers can get stuck with a difficult to assemble product. In this presentation attendees will learn about the importance of designing for automation and the role of manufacturing engineers in the design process. The speaker will discuss the benefits of embedding manufacturing engineers in design teams, providing real-life anecdotes, pitfalls, and examples.

## **TRACK 2** Don't Automate Waste: Know How to Develop and Execute Your Automation Plan

**Greg Tomek, Merkur**

During this presentation you will learn how to develop an automation plan and identify waste and bottlenecks. This presentation will focus on when and how to automate and implement best practices throughout the process.

## **TRACK 3** Lean Manufacturing – The Culture of Kaizen

**Sammy Obara, Honsha**

The Kaizen as a mindset and culture differs greatly from the popular Kaizen event and other continuous improvement approaches. This workshop is an interactive and hands on way to understand the key concepts of lean manufacturing and continuous improvement. Through simulations, you will understand the principles of seven wastes, Just in Time and Kaizen that have been a consistent philosophy at Toyota since its early days. The topics that will be demonstrated with exercises include the Kaizen Teian methodology, its purpose, implementation techniques and standardization elements. There will also be a series of pictorial examples from Toyota Japan to show how they handle this foundational step to make it a culture.

*This session runs from 9:00 AM - 11:55 AM*

➤ 9:45 AM – 10:25 AM

## **TRACK 1** Presentation TBA

## **TRACK 2** AI Copilots for Manufacturing Engineers

**Cyrus Shaoul, Leela AI**

Collecting and analyzing visual data of assembly operations by hand is expensive, inaccurate and impractical. To scale manufacturing analysis to the scale required by today's facilities, new paradigms are required. There are new kinds of machine vision technologies that can inspect manual and machine activity with never before seen fidelity. We will examine the uses of these technologies to find and mitigate various kinds of waste and to increase the safety of the workplace while increasing quality.

Attendees will learn about the latest advances in visual intelligence and how leading manufacturers are using these solutions to increase team cohesion, increase capacity, reduce near-misses and increase yields.

## **TRACK 3** Lean Manufacturing – The Culture of Kaizen (cont.)

**Sammy Obara, Honsha**

*This session runs from 9:00 AM - 11:55 AM. Full description is listed under 9:00 AM time slot.*

➤ 10:25 AM – 10:40 AM **Morning Break**

➤ 10:40 AM – 11:20 AM

## **TRACK 1 Four Key Elements to Get Enthusiastic Buy-In to Change in One Day or Less**

**Paul Vragel, 4aBetterBusiness Inc.**

Implementing change in a company is difficult, to say the least. According to Gallup research, more than 70% of change initiatives do not achieve their objectives. Among the major causes cited: Lack of employee engagement and employee resistance to change. This presentation presents techniques, proven in use by 4aBetterBusiness for over 25 years, that have helped companies develop immediate, enthusiastic buy-in to change, and leverage the participation and contribution to reliably accomplish large-scale, sustainable change. Using these techniques has helped companies achieve operational excellence, create an improvement-seeking culture, attract and retain employees and implement ongoing digital transformation.

## **TRACK 2 Digitize and Automate Your First Steps Towards AI**

**Ed Goffin, Pleora Technologies**

This presentation will separate hype versus reality when it comes to real-world AI deployments. For many manufacturers investigating AI there is still a great deal of confusion around the capabilities of the technology based on “best case” scenarios. This often leads to cost concerns, delayed deployments, and disappointing results. Instead, a more scaled approach that starts with digitization and evolves towards wider AI-based automation often delivers better outcomes for manufacturers. As part of this discussion, we will look at how an electronics manufacturer and distillery are using machine vision and AI-based tools to first digitize error-prone human processes and gather data to help guide and simplify an AI automation strategy.

## **TRACK 3 Lean Manufacturing – The Culture of Kaizen (cont.)**

**Sammy Obara, Honsha**

*This session runs from 9:00 AM - 11:55 AM. Full description is listed under 9:00 AM time slot.*

➤ 11:25 AM – 11:55 AM

## **TRACK 1 Attracting and Retaining a Great Workforce Via Pay Per Performance**

**Vince Sassano, Strategic Performance Company, Inc.**

Individual and team performance and recognition are becoming just as important as productivity and efficiency, although these are not often fully understood and seldom measured. In our post-COVID world, retention/turnover has had a significant negative impact on the bottom line. In this presentation, with a goal to attract and retain quality employees, we'll discuss the basics and the nuances of implementing a framework that links pay to performance for individuals and departments, while demonstrating the benefits that accrue from proper recognition. Although some technology is necessary to implement such a framework, the design and implementation is quite straightforward. Anything that affects pay will of course need corporate/HR approval, however the advantages of having such a program in place and supported by the organization make self-management for the betterment of the organization a reality. Along with a more stable and satisfied workforce, productivity and profits will increase.

## **TRACK 2 Automated Assembly in the Age of Industry 4.0**

**Brian Romano, The Arthur G. Russell Co. Inc.**

As US manufacturers continue to experience a workforce skills gap and labor shortage, companies have begun to ask more from the OEM, including remote support, monitoring, and maintenance programs. What was once a system enhancement and offering for the customer's internal use, an Industry 4.0 implementation is a means to leverage the technology for OEMs to provide the service and support requested by their customers.

## **TRACK 3 Lean Manufacturing – The Culture of Kaizen (cont.)**

**Sammy Obara, Honsha**

*This session runs from 9:00 AM - 11:55 AM. Full description is listed under 9:00 AM time slot.*

➤ 11:55 AM – 1:05 PM      **Lunch**

# AGENDA | TUESDAY, OCTOBER 24

➤ 1:05 PM – 1:45 PM

## **TRACK 1 Building an Effective Talent Strategy**

**Alex Chausovsky, Bundy Group**

The war for talent rages on. Some organizations are ill-prepared to handle the challenges of an increasingly complex labor market, shackled by the “we’ve always done it this way” mentality. Others are thriving, armed with analytical insights and surrounded by allies, allowing them to snap up and retain highly performing impact players and supercharge their growth. What kind of an organization are you? More importantly, what kind do you want to be in the future? This presentation will deliver key insights designed to help business leaders and decision makers elevate their talent-focused activities.

## **TRACK 2 Pitfalls and Approaches for Project Integrations that Include Multiple Technology Classes**

**Jeff Chu, Invio Automation**

Manufacturers today are tasked with carrying out broad, strategic mandates for implementing the ‘Factory of the Future.’ In practice, what does mean for the manufacturing engineer on the factory floor? A factory of the future may entail a mix of technologies that are integrated both ‘across the factory floor’ and ‘up and down the industrial tech stack.’ Given these challenges, we offer five recommendations to best position projects and organizations for success and will highlight two case studies from industry. Key takeaways include approaches, frameworks for uncovering project pitfalls, and case studies / lessons learned from how projects unfold, in practice.

## **TRACK 3 Does Your Robot Need a Tool Changer?**

**Baron Kendrick, ATI Industrial Automation**

One of the main selling points for robots is their flexibility. Unlike conventional automation systems, robots can be programmed to perform any number of tasks—either in sequence as part of a single production cycle, or when assembling families of similar products. However, robots can be limited by their end effectors. Once a robot has been equipped with a gripper designed for a specific part, it becomes restricted in what it can do. In this presentation, you’ll learn what tool changers are, how they work, when to use them, when not to use them, options, features to look for, tips for implementing them, and example use cases.

➤ 1:50 PM – 2:20 PM

## **TRACK 1 Designing for the Frontline Worker: Strategies for Creating Effective Manufacturing Operations Platforms**

**Kimberly Andersson, Tulip Interfaces**

Traditionally, user experience has been an afterthought when designing industrial operations software, with the frontline operator the last persona considered. But operator engagement is critical when it comes to adopting the new, often expensive software and technology solutions designed to solve problems and increase productivity on the factory floor. Kimberly’s approach to product design puts the frontline operator as top priority.

## **TRACK 2 Advantage of the Smart Factory: How Location Technology Can Improve Efficiency and Sustainability**

**Mehdi Ben Tanfous, Kinexon Inc.**

The future of operations is autonomous and sustainable. Factories are involved in moving billions of moving things: from assets, to people over processes. In an Industrial context, efficient operations are key. They are also mission-critical for the global value-creation. Our presentation focuses on how real time location technologies improve productivity, efficiency and sustainability, all while achieving a fast ROI.

## **TRACK 3 The Future of Automated Assembly**

**John Quick, Launchpad.build**

Despite the numerous benefits of automation, many assembly tasks are still performed manually. One reason is the upfront cost of automation. Automating a production line can be expensive, as it requires the purchase of customized equipment and the training of employees to operate and maintain it. Another reason is a lack of flexibility. Yet one more reason is a lack of available technology. For example, tasks that require a high level of dexterity or precision, such as wiring, are often not suitable for automation.

➤ 2:20 PM – 2:35 PM      **Afternoon Break**

➤ 2:35 PM – 3:00 PM

## **TRACK 1** How Pressure-Sensitive Adhesives Enable Advanced EV Battery Designs

**Max VanRaaphorst, Avery Dennison Performance Tapes**

Various design trends and engineering challenges are driving interest in new and effective bonding solutions for EV battery pack materials. These solutions include high-performance tapes featuring pressure-sensitive adhesives. Such tapes provide not only effective bonding, but help address issues related to flame retardancy, boosting dielectric, and optimizing design and assembly. In this session, Max VanRaaphorst, Avery Dennison Performance Tapes business development manager for eMobility and Automotive, will showcase the benefits of pressure-sensitive adhesive technology. He'll discuss why it's a sound solution for a wide range of pack applications and provide an overview of Avery Dennison's capabilities related to EV batteries.

## **TRACK 2** Augmented Reality: A Game-Changer for Manufacturing and Assembly Workflows

**Paul Ryznar, LightGuide Inc.**

Even though automation continues to advance, it's predicted up to 80% of all products will require human involvement at some stage of the manufacturing value chain. Investing in technologies like augmented reality (AR) that empower your frontline workforce can make a dramatic impact. In this session, LightGuide Founder & CEO Paul Ryznar will share practical tips for leveraging AR to optimize manufacturing and assembly workflows for breakthroughs in quality, workforce productivity and operational agility.

## **TRACK 3** Presentation TBA

➤ 3:05 PM – 3:30 PM

## **TRACK 1** Li-ion Battery Recycling: Challenges and New Processes

**Albert Lipson, Argonne National Laboratory**

Lithium-ion batteries need to be recycled to prevent environmental harm and recover valuable materials for reuse. However, the current design of some battery packs makes it difficult to efficiently recycle them. Commercialized battery recycling technologies recover the metallic elements in the battery for reuse. However, many materials and much of the value of the battery cannot be recovered in these processes. In this session, Albert Lipson will discuss these challenges and future technologies that are being developed to recycle more of the battery and keep some of the materials in forms so that they can be directly reused in batteries.

## **TRACK 2** Practical Examples of AI on the Shop Floor

**Yanesh Naidoo, Jendamar Automation Ltd.**

This session cuts through the hype around artificial intelligence and provides practical examples of how the technology is being applied on the shop floor right now. AI-powered vision systems are being used for quality control, defect detection and real-time monitoring of production processes. AI is being used to analyze historical data from the shop floor to predict equipment failures, maintenance needs, and optimize production schedules. And, AI-driven machines are making real-time decisions and adjustments to optimize production processes based on data inputs. If you're thinking about applying AI to your operation, don't miss this session.

## **TRACK 3** Dieless Forming of Sheet Metal With Robots

**Edward Mehr, Machina Labs**

One of manufacturing's dirty little secrets is that virtually all production lines are purpose-built to produce just one component or product, which means that any design change renders that production line obsolete. While those lines are operational, uptime pressure is such that manufacturers are loath to apply patches to known security vulnerabilities because they require downtime that leads to lost revenue and unhappy customers. Edward Mehr, CEO and Co-Founder of Machina Labs, can discuss how material- and geometry-agnostic technology can outperform traditional sheet metal methods and explain how dieless robotic sheet forming processes can reduce time to produce the first part from months to minutes, while saving up to \$1M per design.

# AGENDA | TUESDAY, OCTOBER 24

➤ 3:35 PM – 4:00 PM

## TRACK 1 Robotic Digital Twin for Electrical Vehicle Battery Recycling

**Young Soo Park, Argonne National Laboratory**

EV battery recycling is expected to be a multi-billion-dollar industry by the year 2030. Currently, battery recycling is mainly focused on the cell level, but more effort can be expended on disassembly of the battery packs. Battery packs are heavy, come in a large variety, and often involve high voltage. It is expected that robotic automation can replace current manual approaches to make the process safer, more efficient, affordable, and adaptable. In this session, Young Park will discuss the potential use of telerobotics and robotic digital twin technology to overcome obstacles.

## TRACK 2 Assembly Automation for Plastics Processors

**Guy O’Gara, Automated Machine Systems Inc.**

Plastic Processors have recognized automation as the number one pain point; seeking advice and expertise for the right solutions can be a challenge. With over 20 years of plastic joining and automation experience, Guy will provide real world examples of successful automation projects deployed by plastic processors. Reducing labor, decreasing cycle times, and increasing part quality are just a few of the benefits automated assembly and test equipment can solve. Guy will provide case studies from AMS that will include process overview, challenges, and value-added solutions implemented with return on investment (ROI) data.

## TRACK 3 How to Use Autonomous Mobile Robots to Transform Material Flow

**Cory Weber, Bosch Rexroth Corp.**

Connecting an automated flow of raw materials and finished goods using Autonomous Mobile Robots (AMRs) is an excellent way to reduce cost, increase safety, optimize or reduce downtime, and reduce forklift traffic in the production area. This talk will cover transforming your material flow to your production cells with AMRs. We will cover the available AMR technologies and industry approaches. This presentation will also cover how to choose suitable first projects that provide proof of value while ensuring the first projects are a successful springboard for expansion and integration. Lastly, this presentation will overview approaches to achieving managerial and workforce buy-in and dealing with IT constraints and concerns.

➤ 4:00 PM

Exhibit Hall Opens

Hall A

➤ 4:00 PM – 7:00 PM

Welcome Reception & Taste of Rosemont

Hall A



What better way to kick off The ASSEMBLY Show than with a reception right on the show floor? Join us for a Tuesday evening welcome reception, aptly named the Taste of Rosemont, to sample local fare and get a sneak peek of the various exhibits, tools and displays.

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➤ 7:00 PM

Exhibit Hall Closes

# AGENDA | WEDNESDAY, OCTOBER 25

➤ 9:00 AM - 9:05 AM

Conference Room 13

## Welcome Address & Opening Remarks

John Sprovieri, Editor-in-Chief, ASSEMBLY Magazine

➤ 9:05 AM - 9:10 AM

Conference Room 13

## Plant of the Year Award Presentation

Austin Weber, Senior Editor, ASSEMBLY Magazine

Presented by

**ASSEMBLY**

➤ 9:10 AM - 10:00 AM

Conference Room 13



## KEYNOTE PRESENTATION

### Leveraging Machine Data and Business Intelligence to Position Your People for Future Success

Roger Koenigsknecht, Vice President of North American Connection Systems, Lear Corp.

See full details on page 18

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➤ 10:00 AM CT

Exhibit Hall Opens

Hall A

## LEARNING THEATER PRESENTATIONS

The ASSEMBLY Show's Learning Theater Presentations, presented by exhibiting companies right on the exhibit hall floor, will cover various topics and demonstrate expertise on some of the latest technological advances in assembly.

➤ 10:45 AM - 11:15 AM CT

## Reliable Robotic Leak Detection Enabling Smart Manufacturing of Refrigeration and Airconditioning Systems

Sponsored by:



Daniel Hoffman, INFICON Inc.

For 20 years, manufacturers have been trying to automate leak detection on hand braze copper tubing in refrigerator applications. INFICON, a world leader in leak detection technologies, pioneering new technologies and sensing technologies for the seal integrity space every year, has recently partnered in developing a vision system capable of picking up on discrepancies of hand brazed copper tubing from part to part. INFICON is the first and only company with the capability of this new, innovative Vision System that will allow customers to automatically detect the variations of hand brazed components with a robotic arm. This will allow for fully autonomous testing, improving quality and cycle time for the refrigeration space.

➤ 11:15 AM - 11:45 AM CT

## What is Your Connected Environment Strategy? A Framework for Implementation

Sponsored by:



Matt Shorts, Cox 2M

As environments such as manufacturing facilities, warehouses, and distribution centers become more connected, siloed networks and technology solutions will start to proliferate. If done piecemeal, this can prevent you from truly unlocking the power and value of each solution. Prioritizing investing in an overarching strategy will help frame the best-connected environment approach for your organization's bottom line. Implementing this strategy will assist in aligning heterogeneous networks, building supporting infrastructure, enabling data collection and decisioning, and driving interactions that are imperative to the operation of your business.

# AGENDA | WEDNESDAY, OCTOBER 25

➤ 11:45 AM – 12:15 PM CT

## Introduction to Parts Feeding – Parts Singulation for Robot Automation



**Scott Marsic, Epson Robots**

If you have an assembly application and need to build parts, chances are, you will need parts feeding. From bowl feeders to vibratory feeders, there are many solutions available today. Figuring out which one to go with can be daunting. With over 4 decades of automation experience, Epson Robots has the expertise to walk you through the process and explain the various feeder types available in the market. We will also take you through areas to consider and how to get started.

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➤ 12:00 PM – 1:00 PM CT

Community Hub - Booth #1113

## ➤ Guided Tour #1: Lean Manufacturing and Manual Assembly See full details on page 32

➤ 12:15 PM – 12:45 PM CT

## Building a Competitive Edge: The Importance of Digital Transformation for Small to Medium-Sized Factories

Sponsored by:



**Ryan Kuhlenbeck, Pico MES.**

98% of American manufacturing consists of small to medium-sized businesses. There is a real need to equip these mid-sized factories for a productive future to support the resurgence of manufacturing.

This session will cover:

- How mid-sized factories can start their digital transformation journey without creating culture shock.
- The value of a connected shop floor to various departments e.g. Quality, Operations, and Engineering.
- How easy it is to get started with a live demo! No code implementation and no consultants.
- How to take advantage of automatic data collection from over 1,900 devices - available on day 1.

➤ 12:45 PM – 1:15 PM CT

## Tracer Gas Leak Testing vs Air Leak Testing – Improving Speed and Reliability

Sponsored by:



**Paul Chamberlain, LACO Technologies**

For over 30 years, LACO has been the trusted source of leak testing solutions for production environments. Our primary goal is to deliver robust solutions that provide results you can trust. In this presentation, Paul will explore the key features and benefits of the most common tracer gas leak test methods, as well as share how tracer gas leak testing can improve your test reliability and decrease test cycle times when compared to air leak testing methods. He will also provide real-world case studies, presenting practical applications you can implement to achieve greater confidence in your leak testing process.

➤ 1:15 PM – 1:45 PM CT

## Get Your Plant Future-Ready

Sponsored by:



**Doug Moore, Starline, a brand of Legrand**

Discover the ultimate power distribution solution for manufacturing sites with Starline Track Busway. This innovative system – featuring the new & revolutionary splashproof series - offers unrivaled scalability, modularity, and cost-savings, reducing upfront and ongoing installation costs by up to 90%. Join Starline's presentation to learn how their plug-in units allow for fast and safe reconfigurations and eliminate costly downtime, making your investment future-proof.

➤ 1:30 PM – 2:30 PM CT

Community Hub - Booth #1113

➤ **Guided Tour #2: Robotics**  
See full details on page 32

➤ 1:45 PM – 2:15 PM CT

## Predictive Quality is the Key to EV Production Scaling

Sponsored by:



**Greta Cutulenco, Acerta Analytics**

Many manufacturers of parts for internal combustion vehicles have embraced Industry 4.0 for productivity gains, knowing that real-time insights into manufacturing data can help increase key quality metrics and improve processes. But what about manufacturers of EV parts or those who are adding electrification lines into existing facilities? They don't have decades of experience to lean on as they ramp up production. In this presentation, Greta Cutulenco will introduce ways that manufacturers in the EV space can use data to reduce test times, ensure part quality, and accelerate speed to market.



➤ 2:15 PM – 2:45 PM CT

## How Friction Impacts Torque and the Fastening Process

Sponsored by:



**David Cash, Mountz Torque**

What is the relationship between torque and friction? The process of tightening a fastener involves various elements. The friction behavior between the fastener and the joint is critical to secure the desired clamp load. Torque and friction go together like peanut butter and jelly or nuts and bolts.



With the torque control assembly method, it is essential to understand friction's role during the fastening process. Friction is a crucial element of torquing a fastener. Understanding friction allows you to establish tightening parameters for your assembly application to ensure a reliable fastening process. Without knowing how torque and friction correlate for an application exposes risks for the manufacturing process to product failures and escalating scrap rate costs.

➤ 2:45 PM – 3:15 PM CT

## How to Transform Your Workforce into a Competitive Advantage with AR

Sponsored by:



**Jake Hall, The Manufacturing Millennial**  
**Paul Ryznar, LightGuide**

The world of manufacturing is constantly changing, and digital technologies are playing an increasingly important role. One of these groundbreaking technologies is Augmented Reality (AR) with the potential to revolutionize manufacturing operations and empower workforces like never before. In this learning theater session, we'll explore how leading manufacturers are transforming their workforce into a formidable competitive advantage through technologies like AR.



➤ 3:15 PM – 3:45 PM CT

## Maximize Workforce Agility: Attracting and Retaining the Right Talent at the Right Time

Sponsored by:



**Stephen White, Kelly Professional & Industrial**

The manufacturing industry faces numerous challenges in today's volatile economic landscape—and fierce competition for top talent adds to the complexity of maintaining a fully-staffed team. Join Stephen White, Chief of Staff, Business Unit Growth of Kelly Professional & Industrial, to learn flexible strategies for optimizing operations, processes, and talent to build a thriving manufacturing workforce.



# AGENDA | WEDNESDAY, OCTOBER 25

➤ 3:30 PM – 4:30 PM CT

Community Hub - Booth #1113

➤ **Guided Tour #3: Conveyors and Material Handling**  
See full details on page 32

➤ 5:00 PM CT

Exhibit Hall Closes

➤ 5:00 PM - 7:00 PM CT

Pub Night Networking Reception

Conference Room 13



The ASSEMBLY Show is excited to bring back 'Pub Night' for our Wednesday evening networking reception. Attendees and exhibitors will gather in the adjoining ballroom to kick back and relax over a pint, chat over sliders and make new connections while playing fun backyard games! This social environment will allow participants to meet new manufacturing professionals and continue to build relationships with existing business partners in a fun and exciting atmosphere. PLUS - The Quality Show participants will be joining us for 'Pub Night' in 2023 for additional networking and comradery!



# AGENDA | THURSDAY, OCTOBER 26



**PINK OUT DAY**

In honor of Breast Cancer Awareness month, Thursday, October 26 is the official "Pink Out Day" to support cancer fighters, admire survivors, honor those lost, and never give up hope to find a cure. Make sure to wear pink and donate!



**DONATE TODAY!**

➤ 9:00 AM CT

Exhibit Hall Opens

Hall A

➤ 9:00 AM – 10:00 AM CT

Morning Mingle & Breakfast

Hall A, Main Street



Join us on the final morning of The ASSEMBLY Show for complimentary continental breakfast and coffee right on the exhibit floor. This crowd favorite provides a final opportunity to network and solidify business connections before you hit the road back home.



➤ 9:30 AM – 10:00 AM CT

New Products Awards Presentation

Hall A - Booth #2025

**John Sprovieri, Editor-in-Chief, ASSEMBLY Magazine**

Presented by

**ASSEMBLY**



## PINK OUT DAY

> 10:00 AM – 11:00 AM CT

Community Hub - Booth #1113

> **Guided Tour #4: Fastening Tools**  
See full details on page 32

> 10:00 AM – 10:30 AM CT

### Unveiling the Power of Automation and Value Stream Mapping

Sponsored by:



**Paul Schwanbeck, Pro-Active Engineering**

Join us as Paul reveals the transformative impact of automation and VSM at Pro-Active Engineering. From our state-of-the-art 45,000 sq. ft. facility in Sun Prairie, WI, we have been providing top-notch electronic design, PCB layout, and assembly services since 1996. Industries spanning from industrial equipment to pharmaceutical products have benefited from our expertise.

And with our dedicated Speed Shop for quick-turn prototyping, we deliver innovation at an unprecedented pace. Discover how our investment in cutting-edge technology has revolutionized our operations. Don't miss this captivating session at The Assembly Show. Join us on the forefront of innovation at Pro-Active Engineering!



> 11:00 AM – 11:30 AM CT

### AI-based Assembly Verification for Process Compliance and Yield Improvement with Computer Vision

Sponsored by:



**Nitin Gupta, Ph.D., Dori AI**

Discover how Dori AI is revolutionizing manufacturing operations with cutting-edge AI and Computer Vision technology. Our talk will delve into the transformative impact of AI-based assembly verification on process compliance and yield improvement. Learn how our innovative solutions enhance quality control, reduce defects, and optimize production, empowering manufacturers to achieve greater efficiency and profitability.



> 11:15 AM – 12:15 PM CT

Community Hub - Booth #1113

> **Guided Tour #5: Plastics Assembly**  
See full details on page 32

> 12:30 PM - 1:30 PM CT

Community Hub - Booth #1113

> **Guided Tour #6: Manufacturing Software**  
See full details on page 32

> 2:00 PM CT

Exhibit Hall Closes



**Download The ASSEMBLY Show Mobile App  
for Agenda and Speaker Updates!**

# SHOW INFORMATION

## ADMISSION

The ASSEMBLY Show is for the TRADE ONLY and is limited to persons actively engaged with assembly equipment in the manufacturing industry. The ASSEMBLY Show is not open to the general public.

No one under 18 years of age—including infants— will be admitted. The ASSEMBLY Show reserves the right to request picture identification to verify age. There are no exceptions to our age policy.

## SHOW MANAGEMENT OFFICE

The ASSEMBLY Show management office is located just inside the entrance of Exhibit Hall A.

## SPEAKER & PRESS OFFICE

The speaker ready room and press office is located just inside the entrance of Exhibit Hall A.

## COAT CHECK

Coat check is located in the level 1 lobby off of River Road and will be open during Show hours. There is a fee of \$3 per item to utilize coat checking service.

## FIRST AID

First Aid is located on the ramp between Hall A & Hall B, just south of Booth 1205.

## FREE WI-FI!

The Donald E. Stephens Convention Center has FREE Wi-Fi provided by Boingo. To access your free Wi-Fi follow these easy steps:

1. Connect to Boingo Hotspot
2. Launch web browser - the Boingo Page should appear
3. Click on Complimentary Wi-Fi and follow the prompts to connect

For further questions or assistance, contact Boingo directly at 800.880.4117 to speak with a representative.



## CONNECT

Download The ASSEMBLY Show Mobile App for free to stay connected with conference attendees and receive show updates and notifications.

Scan the QR code or search **Assembly Show** your App Store to download.



Follow us on Twitter, Facebook and LinkedIn and use **#AssemblyShow** to join the conversation on social networks!

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## PHOTOGRAPHY

Unauthorized photography and/or video is not permitted and taking of professional photographs or videotaping in the exhibit hall is strictly prohibited. You must have a press badge, or have prior written approval to use a camera on the exhibit hall. If you use a professional camera without permission, you will be escorted off the exhibit hall and your badge will be confiscated. Audio or videotaping of The ASSEMBLY Show sessions is strictly prohibited.

## EDUCATIONAL SESSIONS

### - Tuesday, October 24

Conference\* // 9:00 am – 4:00 pm

### - Wednesday, October 25

Keynote // 9:00 am – 10:00 am

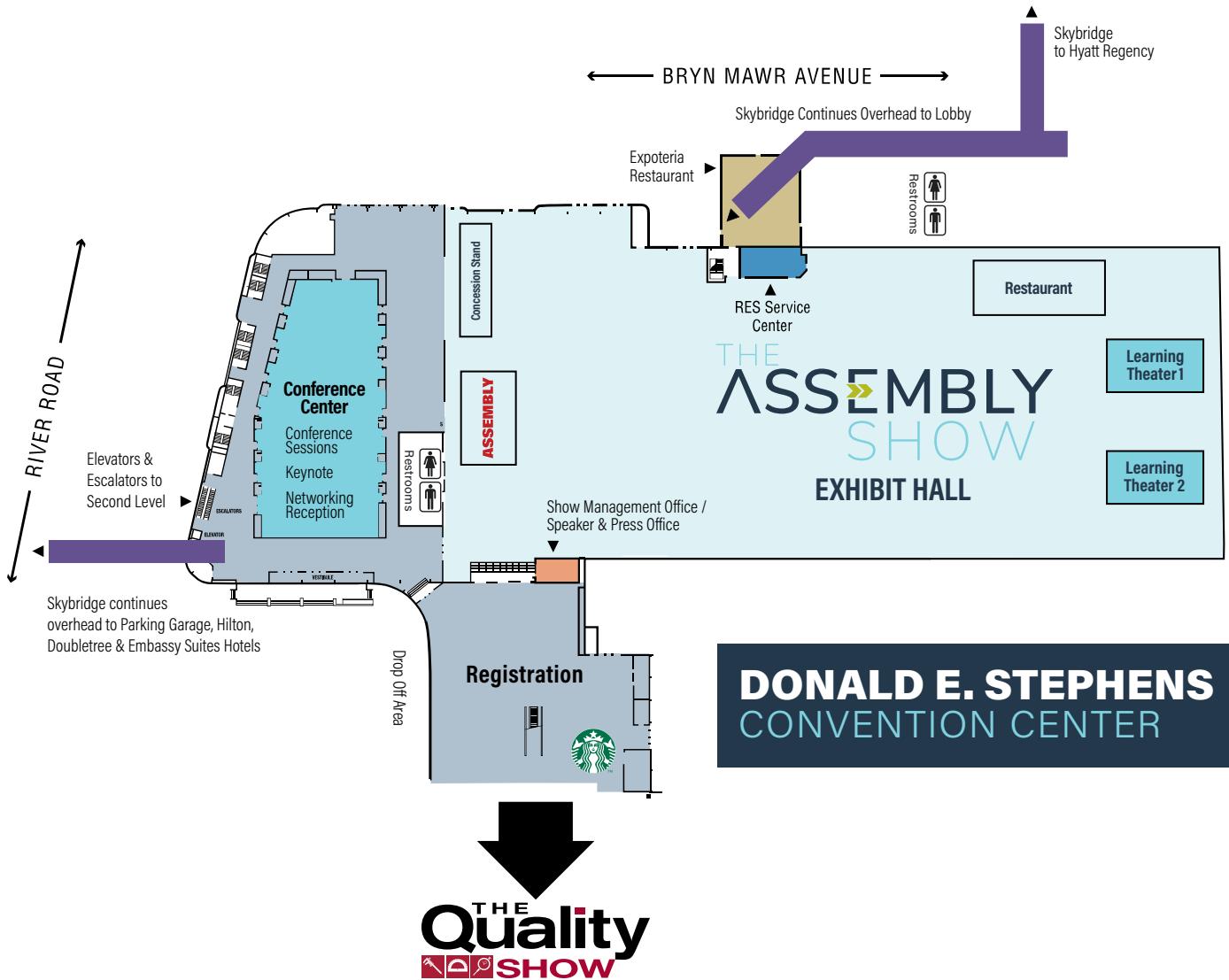
### - Wednesday, October 25

Learning Theaters // 10:45 am – 4:15 pm

### - Thursday, October 26

Learning Theaters // 10:00 am – 12:30 pm

\* Fees apply



## EXHIBIT HALL HOURS

- **Tuesday, October 24**  
4:00 pm – 7:00 pm
- **Wednesday, October 25**  
10:00 am – 5:00 pm
- **Thursday, October 26**  
9:00 am – 2:00 pm

## NETWORKING EVENTS

- **Tuesday, October 24**  
Taste of Rosemont Reception // 4:00 pm – 7:00 pm
- **Wednesday, October 25**  
Pub Night Reception // 5:00 pm – 7:00 pm
- **Thursday, October 26**  
Morning Mingle & Breakfast // 9:00 am – 10:00 am

WEDNESDAY, OCTOBER 25 | 9:10 – 10:00am

## ➤ Leveraging Machine Data and Business Intelligence to Position Your People for Future Success



### Roger Koenigsknecht

Vice President of North American Connection Systems  
**Lear Corp.**

People are inherently susceptible to want to skew data. Whether it's to impress the boss or shape the future of a project, there is the tendency to choose or manipulate the figures to support the outcome. The problem is these adjustments can ripple through a company creating higher costs, masking inefficiencies, and eventually impacting your most critical resource – your workforce. Now what would happen if machine data and business intelligence databases provided your organization with real-time unfiltered information?

During this presentation, Roger will examine how drilling down to collect and share unbiased data can position manufacturing companies and their workers for future success.

Roger Koenigsknecht is the Lear Corp. Vice President of North America Connection Systems. In his role, Roger manages about 500 people who design and develop Lear's low and high-voltage terminals, engineered plastics and components.

He joined Lear in September 2008 as a senior packing engineer and led a cross-functional team which worked to implement best practice manufacturing methods throughout the company's global plants. Roger has held several different positions within the company which include Plant Manager, Director Operations - North America Terminals and Connectors and Director of Global Operations.

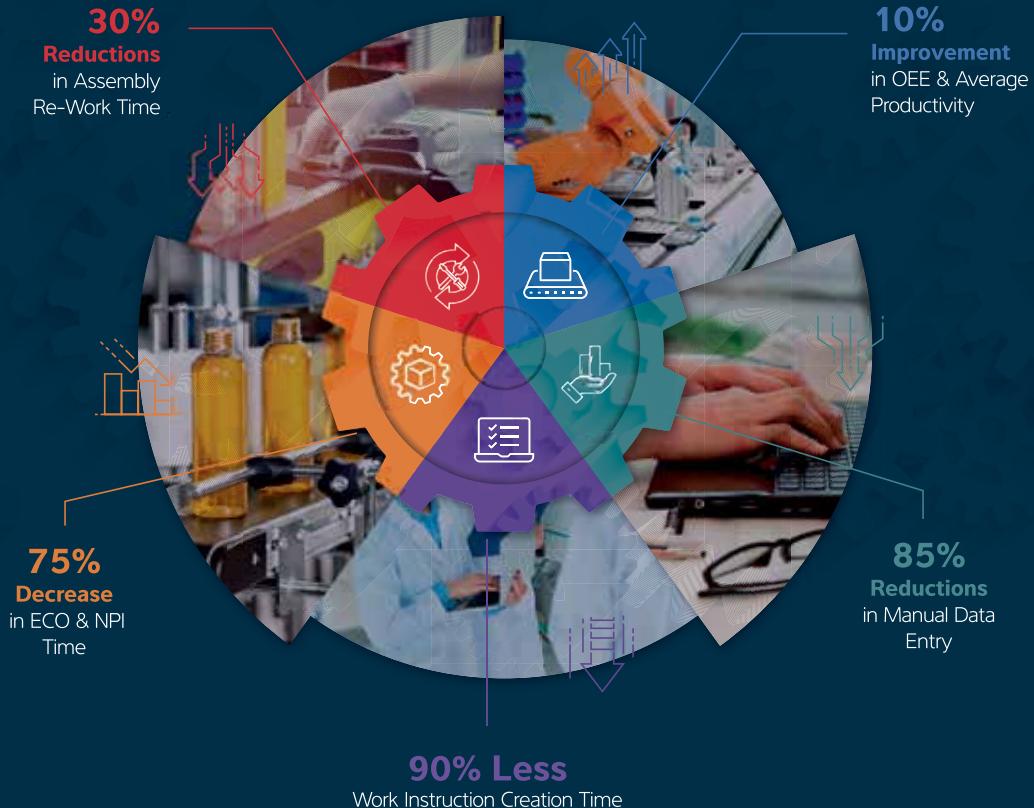
Roger graduated Michigan State University in 2006 with a bachelor's degree in Packaging Science. He obtained his master's degree from Wayne State University in 2018.

*Sponsored by*



# Your Connection to Measurable Industry 4.0 Benefits

A dynamic and holistic MES platform, FactoryLogix® rapidly connects your factory to greater efficiency, productivity, and profitability. Built for today's converged manufacturing reality, it links all of your business-critical systems, processes, and people, unleashing the factory-wide data insights needed for Industry 4.0 transformation.



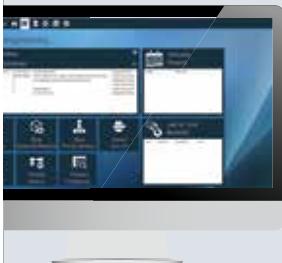
\*Derived from Aegis Customer Case Studies

## FactoryLogix®

**Manufacturing Execution & Operations Solution for Factory-Wide Connectivity. Visit Aegis Software at The Assembly Show #1623**

- DME—Digital Manufacturing Engineering
- Manufacturing Process Execution
- RMA/MRO—Returns & Overhaul
- Lean Materials Management
- Adaptive Planning
- QMS—Quality Management System
- Regulatory & Customer Compliance
- Manufacturing Intelligence
- Active Rules Engine
- Connectivity (IIoT Edge & Business Systems)

**See us at The ASSEMBLY Show, Booth 1623**



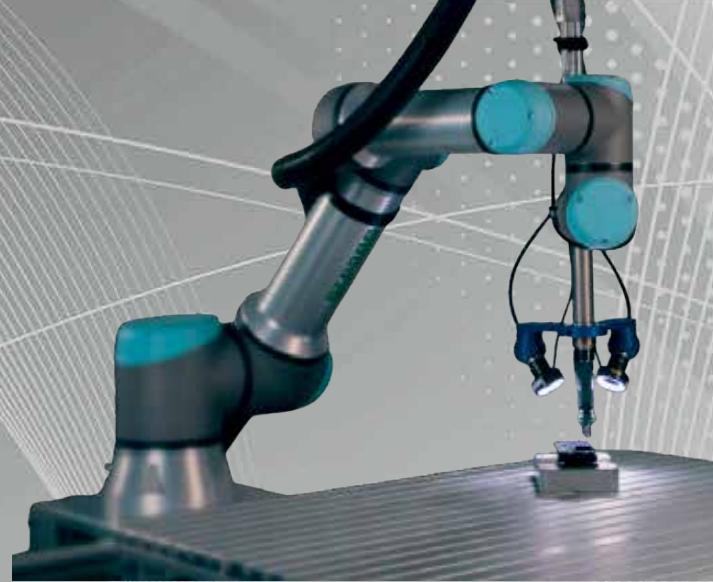
# THE Quality SHOW



**The ASSEMBLY Show is co-located  
with the Quality Show in 2023!**

Registration for The ASSEMBLY Show also  
gives you access to the Quality Show

**2 SHOWS = DOUBLE THE OPPORTUNITIES**



THE  
**ASSEMBLY** ASSEMBLE.  
SHOW >> AUTOMATE.  
ACCELERATE.

**OCTOBER 24-26** | **2023**  
DONALD E. STEPHENS  
CONVENTION CENTER | ROSEMONT, IL

## VISIT BOOTH 639



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# TASTE OF ROSEMONT WELCOME RECEPTION

## THE TASTE OF ROSEMONT

TUESDAY, OCTOBER 24  
4:00 - 7:00 pm

Location: Right in the Exhibit Hall!

Networking is one of the top reasons for attending The ASSEMBLY Show, so what better way to kick off the event than with a Welcome Reception right on the show floor. Our Tuesday evening welcome reception, aptly named the 'Taste of Rosemont', has become a staple to this annual trade show. Participants get to sample local fare and get a sneak peek of the various exhibits, tools and displays.

- Preview Exhibits
- Show Kickoff
- Sample Cuisine From Participating Rosemont Restaurants



Sponsored By:

**SCHUNK**

Thank you to the following restaurants for their participation in this year's Taste of Rosemont reception!

**CARLUCCI**  
Rosemont

Restaurant  
**CARMINE'S**

CRUST  
BREWING

FOCO  
DE  
CHÃO  
CHURRASCARIA  
BRAZILIAN STEAKHOUSE

**GIBSONS**  
BAR • STEAKHOUSE

**HARRY CARAY'S**  
ITALIAN STEAKHOUSE & BAR

liberty tavern  
MODERN AMERICAN FARE

Rosemont Catering  
by aramark

saltwater  
COASTAL GRILL

Star's Donuts  
& COFFEE

**TRULUCK'S**  
STEAKHOUSE • STEAK • GRILL HOUSE

# PUB NIGHT NETWORKING RECEPTION



**WEDNESDAY, OCTOBER 25**  
5:00 - 7:00 pm

**Location: Conference Center - Conference Room 13**

- Craft Beers
- Classic Bar Snacks
- Live Music
- Bag Toss
- Giant Jenga



The ASSEMBLY Show is excited to bring back 'Pub Night' for our Wednesday evening networking reception. Attendees and exhibitors will gather in the adjoining ballroom to kick back and relax over a pint, chat over sliders and make new connections while playing fun backyard games! This social environment will allow participants to meet new manufacturing professionals and continue to build relationships with existing business partners in a fun and exciting atmosphere.

***PLUS — The Quality Show participants will be joining us for 'Pub Night' in 2023 for additional networking and comradery!***

Sponsored By:



# MORNING MINGLE & BREAKFAST



## MORNING MINGLE & Breakfast

Looking for a productive networking experience that will kick off your day? Join us on the final morning of The ASSEMBLY Show for complimentary continental breakfast and coffee right on the exhibit floor. This is one of your last chances to network and make some final business connections.

**WEDNESDAY, OCTOBER 26**  
9:00 - 10:00 am

**Location: Right in the Exhibit Hall!**

- Continental Breakfast
- Coffee
- Networking
- New Product of the Year Awards



Sponsored By:  **envision** canvas

THURSDAY, OCTOBER 26



# PINK OUT DAY

**Ending breast cancer needs  
Hope. Compassion. All of Us.**

In honor of Breast Cancer Awareness month, Thursday, October 26 is our official "Pink Out Day" to support cancer fighters, admire survivors, honor those lost, and never give up hope to find a cure. Please join fellow event attendees by wearing pink when attending the event on Thursday and donating to Susan G. Komen Foundation when registering!

**The ASSEMBLY Show Gives Back** is an opportunity for Show attendees, exhibitors and sponsors to support an important cause.

**For every dollar donated, The ASSEMBLY Show will match it up to \$5,000!**



**DONATE  
TODAY!**

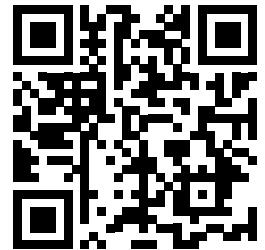
# NEW PRODUCT *Awards*

Vote for **New Product of the Year**  
at The **ASSEMBLY Show**



Some 220 exhibitors are displaying the latest products and services at the 11th annual ASSEMBLY Show. Fasteners, power tools, adhesives, dispensing equipment, conveyors, robots, software and, of course, automated assembly systems are among the myriad new products on display.

To help draw attention to the breadth and quality of new technologies on display, we're holding the 5th annual "New Product of the Year" contest at the show, and you—the attendees—will be the judges. We've nominated 20 products in five categories that we think are particularly innovative. All you have to do is vote for your favorite by scanning the QR code or directly within the mobile app!



**VOTE HERE**

Visit **booth #2025** to view the New Product Nominees and place your votes for your favorite new products in each category. Voting will be open throughout exhibit hall hours on **Tuesday, Oct. 24, and Wednesday, Oct. 25**. The winners in each category will be announced in **booth #2025** on **Thursday, Oct. 26, at 9:30 a.m.**



## Self-Adjusting Tooling for Flexible Automated Assembly

This custom assembly system processes hundreds of variants with no manual changeover. Servo-actuated tools, fixtures and grippers with pressure-sensing feedback enable immediate and automatic changeover. This flexibility is even more impressive considering the complexity and precision of the assembly process. A delta robot picks parts from a multi-lane feeding system that uses coin-change singulation and automated inspection. Pins just 1 millimeter across are automatically de-reeled and stitched into housings. The product is then laser marked and lubricated.



**MS Automation** • [msautomation.com](http://msautomation.com) • **Booth 331**



## Servo-Driven Riveter

Orbitform offers a full line of servo-driven riveters, including the PSV-1000 with a peak forming force of 40,000 pounds. Servos provide greater control with variable advance and retract rates, precise speed and position advancement, the ability to form to a force or distance, multiple stop positions, and programmable dwell time. Servo equipment is more stable than pneumatics, eliminating issues caused by fluctuations in air pressure. Manufacturers can form a pivoting joint to specific dimensions, check the torque, and if the specification is not met, repeat the forming cycle until the desired torque is reached.



**Orbitform** • [www.orbitform.com](http://www.orbitform.com) • **Booth 219**



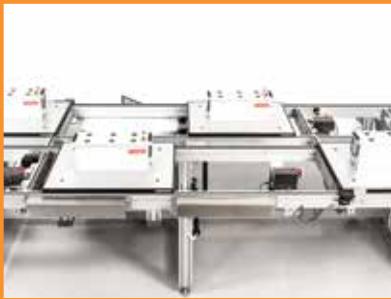
## New Tech Simplifies Integration of Press Systems

The Work Flow Director provides a simple programming environment, reliable connectivity and easy integration of non-Promess devices with Promess devices, providing a low-risk step into smart manufacturing. The technology alleviates challenges derived from complex PLC programming, device mismatches and operator error. One example is bar code scanning. The director allows a scanner to be integrated with a Promess Work Station. This is accomplished through a few setup windows, instead of a PLC project, which would require hours of programming and debugging.

The Promess Data and Device Hub, the backbone of this innovation, sets the stage for a future where devices communicate seamlessly and easily.



**Promess Inc.** • [www.promessinc.com](http://www.promessinc.com) • **Booth 305**



## Heavy-Duty Conveyor Is IIoT-Ready

The HU twin-track conveyor consists of modules that are easily combined to create layouts for routing, buffering and positioning pallets. Modules include predefined control logic, which reduces programming time. The conveyor is fully digital and ready for IIoT and traceability requirements. The software includes tools for routing, traceability, data acquisition and OEE data. Pallets have conductive frames and are RFID-ready. Pallet width is 1,040 millimeters.

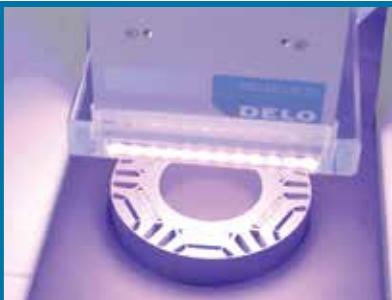
A booster section doubles transfer speed. Maximum speed is 15 meters per minute. Maximum length is 10 meters. Maximum load is 1,000 kilograms.

Mean time between failures is 12,000 hours. All components are plug-and-play, allowing a single-digit mean time to repair. Smart motors and digital chain slack detection permit predictive maintenance. Locating units position pallets with a repeatability of  $\pm 0.1$  millimeter. A gravity damper gently slows down pallets. Smart motors only run when needed.



**FlexLink Systems Inc.** • [www.flexlink.com](http://www.flexlink.com) • **Booth 1723**

# NEW PRODUCT AWARDS



## Adhesive for Electric Motor Assembly

Dualbond HT2990 is a dual-curing, high-temperature adhesive for electric motor assembly, such as magnet bonding and magnet stacking. It achieves fixation in 5 to 10 seconds when exposed to light. Final curing with heat takes 30 minutes at 150 C or 60 minutes at 130 C. The initial cure with light helps keep parts in place. The adhesive does not seep onto motor laminations. For magnet stacking, light fixation lets manufacturers forego the need to keep magnets in a jig during heat cure.



**DELO Industrial Adhesives LLC • [www.delo-adhesives.com](http://www.delo-adhesives.com) • Booth 1811**



## Adhesive Assembles ADAS Components

Loctite Ablestik NCA 01UV is formulated for assembly of high-resolution cameras and lidar modules for advanced driver assistance systems (ADAS). This active alignment adhesive is cured in a single step with just 3 seconds of exposure to UV LED light, eliminating the need for oven curing to save time, energy and CO<sub>2</sub> emissions.

With low and consistent dimensional change of 0.4 percent during cure, this adhesive can be used to assemble high-resolution camera modules. No outgassing from volatile compounds ensures high image quality and no fogging of optical components. It is free of CMT, SVHC, or any toxic

substances and fully EU REACH-compliant.

**Henkel Corp. • [www.henkel-adhesives.com](http://www.henkel-adhesives.com) • Booth 1616**



## Adhesive for Low-Surface-Energy Plastic

TA4610 is a two-part toughened acrylic adhesive for bonding low-surface-energy plastics, such as polypropylene, polyethylene and polyolefins, without the need for primer or surface treatment. It can also be used to bond a wide variety of other materials, such as metals and composites, and it can bond dissimilar surfaces. It has a 1-to-1 mix ratio. It achieves full cure at room temperature. Set time is 12 to 15 minutes; handling time is 40 to 50 minutes; and working strength is 6 to 8 hours.



**PermaBond • [www.permabond.com](http://www.permabond.com) • Booth 1448**



## Adhesives for Assembling Lithium-Ion Batteries

El-Cast epoxies are formulated for potting and encapsulating lithium-ion batteries. They keep batteries secure from damage caused by shock, moisture, vibration and chemicals. All materials are nonhazardous, REACH and RoHS compliant, and solvent-free. Epoxies are UL-approved, lightweight, thermally conductive, and heat-resistant with low exothermic properties. They resist acids, fuels, solvents and salts. They come in a range of hardness ratings and viscosities.

El-Cast with 641 hardener is a medium-viscosity resin. With good air release, the cured part will have a gloss finish. Maximum use temperature is 250 F. El-Cast

VFR with 117 hardener is a 100 percent epoxy formula. Soft and flexible, this low-viscosity epoxy offers excellent air release. El-Cast VFR with 118 hardener is a filled two-part epoxy. It has excellent air release and cures to a high gloss. It is heat resistant to 400 F.



**United Resin Corp. • [www.unitedresin.com](http://www.unitedresin.com) • Booth 451**



## Smart Controller and Transducerized Screwdriver

Sumake introduces the SMT-C2 smart controller with a touchscreen interface and a transducerized screwdriver with angle-controlled tightening. Angle control ensures accurate and repeatable fastening. The driver has a built-in LED to illuminate the work. A rubber-covered grip offers better handling and comfort during operation. The controller helps engineers analyze fastening results. Users can switch between programs to accomplish various tightening tasks. The controller saves 1 million run-downs, displays data in a graph, and exports data via FTP or USB. The display shows real-time torque and angle data as the fastener is tightened.



**Sumake North America • [sumakenorthamerica.com](http://sumakenorthamerica.com) • Booth 940**



## Intelligent Screwdriver

The CHP ATX intelligent screwdriver has a nonslip grip, brushless servomotor, precision transducer, and high-resolution digital encoder for accurate angle measurement. The tool is accurate to 3 percent of the set torque. The tool has an LED status indicator and a 1/4-inch hex drive. The model range covers torque of 2.4 to 50 kilogram-centimeters. The tool can be programmed for lever start, push to start, or both. A touchscreen controller sets torque and speed. It includes a network interface to export data. The controller can run two drivers simultaneously or in a user-defined sequence. Each fastening location is programmable in various combinations of time, torque, rotation angle and direction.



**American Hakko Products Inc. • [hakkousa.com](http://hakkousa.com) • Booth 1715**



## Transducerized Cordless Screwdriver

This programmable, transducerized cordless screwdriver delivers precise torque control. Model DFT060TMZ has a range of 2 to 6 newton-meters. Model DFT120TMZ has a range of 4 to 12 newton-meters. The tool has an efficient brushless motor with a no-load speed of 400 to 1,300 rpm. Including the battery, it weighs 2.4 pounds.

The tool automatically shuts off when the set torque is reached. It provides visual and audible feedback on each run-down. A USB connection allows for six-stage programming of both direction and speed. Repeatability is 4 percent of mean torque.

The tool is powered by a 14.4-volt lithium-ion battery for extended run time and a greater number of lifetime charges. It is automatically disabled when battery capacity drops below 5 percent. The battery recharges in 30 minutes.



**Makita U.S.A. Inc. • [makitaassemblytools.com](http://makitaassemblytools.com) • Booth 1323**



## Cordless Screwdriver Is Smart

The EPT all-in-one transducerized cordless screwdriver has a built-in sensor that continually measures torque in real-time and feeds data back into the system. An error-proofing system helps prevent defects. Engineers can easily program the tool, setting torque tolerances for each fastener in a sequence. The tool records and stores torque and fastening data. Weighing 4.5 pounds, the tool has a 3/8-inch square drive and a torque range of 11.5 to 57.5 inch-pounds. Driver speed can be adjusted from 100 to 1,250 rpm.

Features include a built-in bar code scanner; digital I/O for interfacing with a machine; a PLC interface for line control monitoring techniques; and a screw counting function to ensure that all screws are accounted for during assembly.



**Mountz Inc. • [www.mountztorque.com](http://www.mountztorque.com) • Booth 605**

# NEW PRODUCT AWARDS



## Flexible Smart Gripper

The Flexible Smart Gripper (FSG) is an electric gripper with flexible, soft-bodied fingers for handling objects of varying size, shape and weight. The FSG can pick and place parts in multiple shapes and sizes due to its FDA-compliant silicone fingers. The ability to rotate in the roll degree of freedom, while keeping rigid in pitch and yaw, ensures dependable, soft and flexible gripping of delicate objects. The Enhanced Intelligence version of the FSG provides additional finger positions for grip precision and efficiency, as well as force control. The FSG is programmed through a simple interface that can be accessed with any Wi-Fi-enabled device.



**Applied Robotics Inc. • [www.appliedrobotics.com](http://www.appliedrobotics.com) • Booth 807**

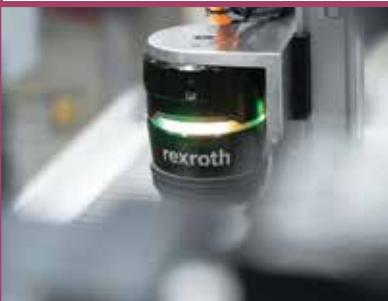


## Compliant Tool for Robotic Grinding and Finishing

The CGV-900 compliant angle grinder automates the grinding and finishing process. It has built-in compliance, allowing the tool to compensate for irregularities in surfaces and maintain contact with a workpiece. Compliance force is adjustable, enabling engineers to fine-tune finishing processes in real time. The tool also provides position sensing data to help indicate media wear. This lets engineers establish media replacement intervals, eliminating unexpected rework and downtime. The data can also be used for process verification. The grinder contains a governed, vane-style motor that provides consistent speed. This ensures an even finish throughout the contact path of the tool.



**ATI Industrial Automation • [www.ati-ia.com](http://www.ati-ia.com) • Booth 239**



## Smart End-Effector Makes Robots More Sensitive

The Smart Flex Effector gives robots human-like sensitivity. Processes that are hard to manage can be automated, optimized and monitored. Thanks to a kinematic system that works independently in six degrees of freedom, the device precisely records the position of the part and passes that information to the robot controller for active compensation. Applications include joining processes with minimal tolerances, complex assembly, and difficult handling tasks. The device reduces the time needed for teaching points. Thanks to 6D position recording, the controller can read the exact coordinates for gripping and placing points directly. Repeated learning during operation is possible in an automated manner.



Robots can also be taught manually, simply by moving them into position by hand.

**Bosch Rexroth • [www.boschrexroth.com](http://www.boschrexroth.com) • Booth 119**



## AI for Robot Guidance

MIRAI is a new control system that enables robots to handle variance in shape, position, color and light conditions. Using AI, MIRAI generates robot movements in real time and responds automatically to movements of the target object. MIRAI takes control of the first and last centimeters of the robot's path, eliminating the need for rigid fixturing of parts. MIRAI also simplifies robot programming. Robots can learn many tasks through observation, so they can be trained and retrained for various processes. No knowledge of programming or AI is required. The system consists of a MIRAI controller; a six-axis robot; a force-torque sensor; an end effector; a camera; and a ring-light. Through AI, robots observe actions

performed by a person and then imitate them.

**Micropsi Industries GmbH • [www.micropsi-industries.com](http://www.micropsi-industries.com) • Booth 352**

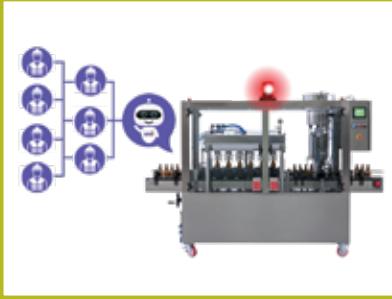




## AI for Line Monitoring

LinePulse 3.0 bridges the gap between continuous IIoT data collection and the data preparation required for machine learning and artificial intelligence, allowing algorithms to keep a constant pulse on the health of a manufacturing line. Through advanced analytics, LinePulse provides actionable insights from complex data. Users do not need a data science background to derive value from the product, because its unattended AI runs in the background. LinePulse identifies problems like signal drift on the line and displays anomalies and causes of failures on intuitive dashboards. The software directs engineers to stations where they can make the most impact.

**Acerta Analytics Solutions Inc. • [acerta.ai](http://acerta.ai) • Booth 539**



## AI-Powered Manufacturing Chatbot

Andi is an AI-powered manufacturing chatbot. This advanced, natural language processing software enables workers to engage in human-like conversations and request expert help. It assists with tasks such as automatically monitoring machine performance, solving problems, and generating action plans, checklists and work instructions. Andi can learn company-specific information, such as machine operation and troubleshooting manuals, quality systems and HR manuals. This enables the software to provide instant support for specific questions like how to fix particular machine failure codes; identifying the top three problems causing the most downtime in a machine; determining first-time quality for the past hour; or even clarifying company vacation policies.

**Andonix • [andonix.com](http://andonix.com) • Booth 361**



## Software Creates Work Instructions from PLM Data

Product lifecycle management (PLM) software is the single source of truth for all product data. It underpins the digital thread, informs other core systems such as ERP and MES, and ensures processes are managed according to the most current data. Canvas Envision extends the digital thread to frontline workers. It integrates with Aras Innovator PLM, enabling anyone in an organization to create and consume interactive digital instructions that leverage up-to-the minute design data. Design engineering generates a lot of data. PLM keeps track of versions, sends data to the right places, and orchestrates workflows. It also lets engineers visualize 3D CAD. But, PLM won't let manufacturers take all the data it houses and rapidly aggregate it

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The Starline logo is displayed in white text on a blue rectangular background. The word "Starline" is in a bold, sans-serif font, with a registered trademark symbol (®) to its upper right.

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A photograph of a Starline Series-S Track Busway unit. The unit is a long, rectangular metal enclosure with a dark top surface. It is shown in a rain shower, with water spraying across its front and top. The background is dark and blurry, suggesting an outdoor industrial setting. A label with the Starline logo is visible on the right side of the unit.

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## TOUR 1: LEAN MANUFACTURING AND MANUAL ASSEMBLY

**Tour Guide:** Austin Weber, Senior Editor, Assembly Magazine

According to ASSEMBLY's annual Capital Equipment Spending Survey, 87 percent of factories employ at least some manual operations to assemble their products. People are the most flexible assembly machines, after all. Designing, equipping and managing a manual assembly process requires a different skillset than an automated one. This tour will introduce you to six suppliers that can help you create efficient line layouts; error-proof your process; and prevent work-related injuries.

WED., OCTOBER 25, 2023 @ 12:00 - 1:00pm

### Tour Stops Include:

All Metal Designs - Creform Corp.  
Indeva - SUS America Inc.  
UNEX Manufacturing

## TOUR 2: ROBOTICS

**Tour Guide:** John Sprovieri, Editor in Chief, ASSEMBLY Magazine

With product lifecycles getting shorter, the need for flexible automation is becoming more important. As a result, manufacturers worldwide are increasingly investing in robotics. Today's robots are faster, more precise, and easier to use than ever, and their connectivity is playing a key role in today's increasingly digital manufacturing environments. This tour provides a look at the complete range of assembly robots, including SCARAs, six-axis robots and the hottest technology today—collaborative robots.

WED., OCTOBER 25, 2023 @ 1:30 - 2:30pm

### Tour Stops Include:

Epson Robots - FANUC America Corp.  
IAI America Inc. - SCHUNK  
MTA Automation Inc.

## TOUR 3: CONVEYORS AND MATERIAL HANDLING

**Tour Guide:** Jennifer Pierce, Multimedia Editor, ASSEMBLY Magazine

Transportation — moving parts or assemblies from place to place in a factory — is one of the seven wastes specified in the principles of lean manufacturing. Transportation does not add value. That does not obviate the need for conveyors, however. These machines remain essential for getting the right parts to the right spot at the right time. This tour will show you how the right material handling technology can increase efficiency.

WED., OCTOBER 25, 2023 @ 3:30 - 4:30pm

### Tour Stops Include:

Automation & Modular Components Inc.  
Bosch Rexroth Corp. - FlexLink Systems Inc.  
Glide-Line - Quickdraw Conveyor Systems

## TOUR 4: FASTENING TOOLS

**Tour Guide:** Austin Weber, Senior Editor, Assembly Magazine

Error proofing, quality control and flexibility are essential on today's assembly lines. As a result, manufacturers are increasingly investing in state-of-the-art fastening tools. Today's tools allow engineers to adjust fastening speed to match various applications and control more aspects of the tightening process, including key parameters such as torque and angle. The ASSEMBLY Show features numerous suppliers of fastening tools and accessories. This tour provides a look at six leading vendors.

THURS., OCTOBER 26, 2023 @ 10:00 - 11:00am

### Tour Stops Include:

ASG, Division of Jergens Inc. - Delta Regis Tools  
Desoutter - Ingersoll Rand  
Nitto Kohki USA Inc.

## TOUR 5: PLASTICS ASSEMBLY

**Tour Guide:** John Sprovieri, Editor in Chief, ASSEMBLY Magazine

Plastic welding isn't one technology — the term encompasses a range of joining technologies that continue to evolve to meet a wide range of assembly needs. These include ultrasonic welding, vibration welding and heat staking. Whether you're putting together an automotive taillight assembly or a medical test cartridge, you'll find the latest technology at The ASSEMBLY Show. This tour will take you to six leading suppliers.

THURS., OCTOBER 26, 2023 @ 11:15am - 12:15pm

### Tour Stops Include:

Dukane - MS Ultrasonic Technology LLC  
Rinco Ultrasonics/Forward Technology Industries  
U.S. Heatstake

## TOUR 6: MANUFACTURING SOFTWARE

**Tour Guide:** Austin Weber, Senior Editor, Assembly Magazine

In the factory of the future, software will be as important to assembly as robots, riveters and nutrunners. This tour will introduce you to six software suppliers that are leading the digital transformation of assembly lines. We'll cover the gamut of software technology, from error-proofing workstations to analyzing the performance of assembly lines or entire plants. Whether you're looking for ERP software or digital work instructions, you'll find it at The ASSEMBLY Show.

THURS., OCTOBER 26, 2023 @ 12:30 - 1:30pm

### Tour Stops Include:

Automation Intellect - Cetec ERP  
Tulip - Ujigami - VKS

# CHARTER EXHIBITORS



*We thank our charter exhibitors for their continued support of The ASSEMBLY Show OVER THE PAST 11 YEARS*

Company	Booth #	Company	Booth #
 ASG <small>Design • Production • Assembly • Automation</small>	517	 Makita	1323
 ATC <small>automation &amp; robotics</small>	613	 mountz® <small>the torque tool speed artists</small>	605
 ATI <small>INDUSTRIAL AUTOMATION www.ati-ia.com Engineered Products for Robotic Productivity</small>	239	 mta inc <small>WELDING &amp; INSULATION</small>	939
 BalTec	1223	 PROMESS	305
 rexroth <small>A Bosch Company</small>	119	 Schleuniger	419
 CTS <small>CINCINNATI TEST SYSTEMS</small>	1523	 SCHMIDT® <small>Technology</small>	1123
 CREFORM® <small>MATERIAL HANDLING SYSTEM</small>	1631	 SCHUNK	105
 Desoutter	431	 TOX® PRESSOTECHNIK	442
 eFlex SYSTEMS	500	 UJIGAMI™ <small>BY TUTELAR TECHNOLOGIES INC.</small>	313
 EPSON ROBOTS <small>PRECISION AUTOMATION SPECIALISTS</small>	1231	 UNEX	813
 InterTech <small>World Leader in Test Technology</small>	600	 WEISS	113
 ISTHMUS <small>Engineering &amp; Manufacturing</small>	713		

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The ASSEMBLY Show Community Hub is the place where you can recharge your phone, pop-open your laptop and catch up on what's happening back in the office, meet up and connect with someone at the show, or just sit back and relax for a little while. The Hub will also feature the Plant of the Year awards display and trophy, a podcast area, and it will serve as the meeting place for all Guided Exhibit Hall Tours.

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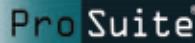
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# 2023 ASSEMBLY PLANT OF THE YEAR

Assembly Plant  
of the Year  
2023

## CONGRATULATIONS TO THE 2023 PLANT OF THE YEAR AWARD WINNER

### Austin Weber

Senior Editor - [webera@bnpmedia.com](mailto:webera@bnpmedia.com)

Taylor Guitars produces nearly 700 guitars a day at two factories located in El Cajon, CA, and Tecate, Mexico. Many instruments on the company's assembly lines are unique and built to order.

The 49-year-old company prides itself on innovation and playing its own tune. Taylor is known for "blending modern, innovative manufacturing techniques with a master craftsman's attention to detail." That's why it uses in-house developed automation to streamline production and improve quality.

In addition, Taylor is a leader in sustainability. It uses a variety of wood that is ethically sourced from around the world. Recent initiatives have focused on responsible stewardship of natural resources by planting trees and upcycling. In fact, the company was recently inducted into the International Green Industry Hall of Fame for its environmental efforts and honored as one of the most innovative companies in the manufacturing sector.

Taylor Guitars is also the recipient of the 2023 Assembly Plant of the Year award sponsored by ASSEMBLY Magazine. The world-class plant was chosen for the 20th annual award because of its innovative use of automation, green manufacturing, process controls and vertical integration.

Taylor has pioneered new guitar designs and construction techniques. And, it's been out in front when it comes to developing and adopting production technology. In addition, the employee-owned company is a leader in developing groundbreaking forest stewardship programs.

Above all, Taylor Guitars excels at making musical instruments that are known for their quality.

"We do our best to take wood that doesn't always cooperate and make some of the best guitars money can buy," says Chris Wellons, vice president of manufacturing at Taylor Guitars. "We've set the standard for modern-day precision craftsmanship to create the best possible playing experience.

"Our blend of proprietary, innovative technology with impeccable hand-craftsmanship has led to unparalleled quality and consistency in the production of our guitars," explains Wellons. "We have gone from a small, unknown company to one of the world's largest producers of high-end acoustic guitars.

"We have an entire tooling and engineering division devoted to making our latest guitar designs production-ready," says Wellons. "This includes everything from developing the programs we use with our sophisticated computer-controlled mills and robots to fabricating our own tools and machines to help our skilled artisans produce our guitars.

"That unique integration of technology, tooling and skilled hand-craftsmanship makes our guitar factory operation truly one of a kind," claims Wellons. "Not only does this allow us to imbue our guitars with impeccable detail work, but the superb build quality gives players an heirloom-quality instrument."

Taylor Guitars employs some of the best luthiers in the world who are skilled at crafting fine wood instruments. But, that doesn't mean that the company shies away from using automation. It has embraced robotics, machine vision and other state-of-the-art production technology to improve productivity, address ergonomic issues and boost quality.

**To learn more about the products made by Taylor Guitars, stop by Booth 906.**

The 2023 Assembly Plant of the Year award will be presented on Wednesday, Oct. 25, at 9 a.m., prior to the keynote address. Also, be sure to visit our Assembly Plant of the Year wall of fame in Booth 1113 to check out the previous 19 winners. To read more about previous winners—and to apply for next year's award—visit [www.assemblymag.com](http://www.assemblymag.com).

To read more about previous winners—and to apply for next year's award—visit [www.assemblymag.com](http://www.assemblymag.com).



**Attend the Awards Presentation Wednesday,  
October 25 at 9:00 am in Conference Room #13  
just before the Keynote Presentation**

**Visit the Plant of the Year Hall of Fame Display  
in BOOTH #1113 and the Winning Plant in  
BOOTH #906**

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ASG Divison of Jergens Inc.	<a href="http://www.asg-jergens.com">www.asg-jergens.com</a>	888-486-6163	51
BalTec Corp.	<a href="http://www.baltec.com">www.baltec.com</a>	724-873-5757	47
Coval Vacuum Technology Inc.	<a href="http://www.coval-inc.com">www.coval-inc.com</a>	919-233-4855	67
Creform Corp.	<a href="http://www.creform.com">www.creform.com</a>	800-839-8823	1
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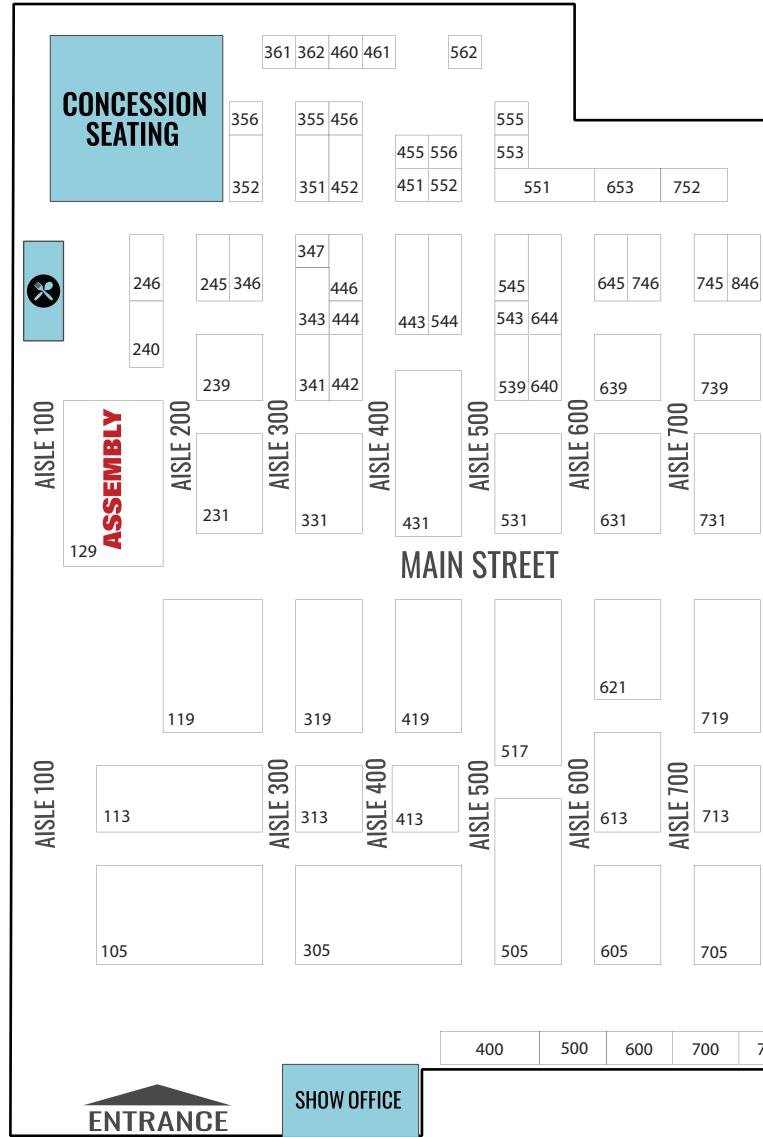
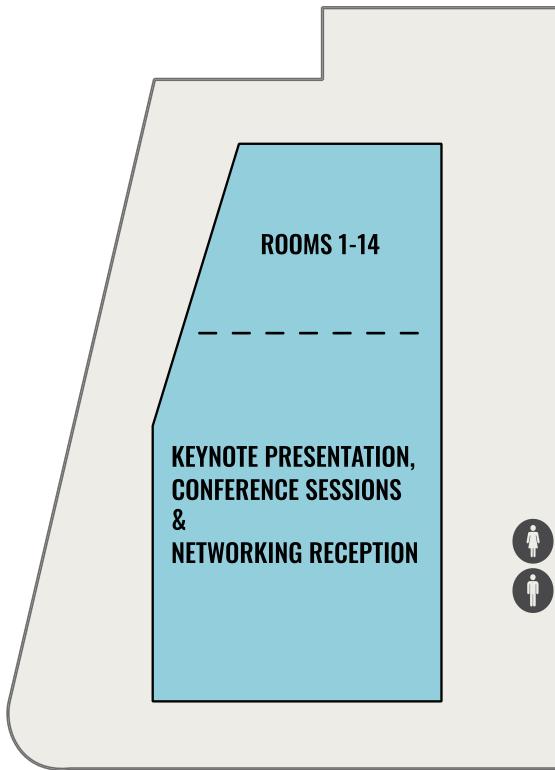
# EXHIBITOR BOOTHS — NUMERICAL

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WEISS North America Inc.	113	PHD Inc.	505	ESTIC America Inc.	819
Bosch Rexroth Corp.	119	YRG Inc.	505	Crane Electronics Inc.	831
ASSEMBLY	129	ASG, Division of Jergens Inc.	517	LACO Technologies	839
Orbitform	219	Ingersoll Rand.	531	ProSuite.eu	841
Nitto Seiko America	231	Acerta Analytics Solutions Inc.	539	Stainless Vibes Inc.	843
ATI Industrial Automation	239	Sprinter Marking Inc.	543	Automation Specialist Services	846
Marposs Corp.	240	Hyperion Automation	544	Cosmo Solutions Technology Inc.	900
Sankyo Automation	245	MS Ultrasonic Technology LLC	545	IAI America Inc.	905
Nanjing CUH Science & Technology Co. Ltd.	246	Pico MES	551	Taylor Guitars	906
Promess Inc.	305	Homer City Automation	552	StandardBots	910
Ujigami / Tutelar Technologies Inc.	313	nFlux AI	553	Arthur G Russell Co., The	913
BUILT Systems	319	IFSYS North America Inc.	555	KINEXON	919
MS Automation	331	IKO International	556	Tulip	931
Bostik Inc.	341	DPSS Lasers Inc.	562	MTA Automation Inc.	939
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Koops Automation Systems	346	Mountz Inc.	605	MB Metal Technologies	943
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Gage Bilt Inc.	351	FANUC America Corp.	621	eldec LLC	1000
Micropsi Industries	352	Kistler Instrument Corp.	631	Scout Systems Inc.	1002
U.S. Heatstake	355	DEPRAG	639	ACE Controls	1005
Dürr Systems Inc.	356	ATEQ Corp.	640	Genesis Automation	1013
andonix	361	Ellsworth Adhesives	644	Pfeiffer Vacuum	1017
IPC International inc.	362	INFICON	645	Zimmer Group US Inc.	1023
TorqTec	400	TM Robotics	653	Jenny Science	1031
Janome Industrial Equipment USA	413	Nitto Kohki USA Inc.	700	Delta Regis Tools	1039
Schleuniger Inc.	419	Roemheld North America	702	Tailored Label Products Inc.	1040
Desoutter Industrial Tools	431	Edgewater Automation	705	WEH Technologies Inc.	1043
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