

THE ROAD TO
MANUFACTURING SUCCESS

THE
ASSEMBLY
SHOW

SHOW PROGRAM
& EXHIBIT GUIDE

EXCLUSIVELY ASSEMBLY

OCTOBER 24 – 26, 2017

DONALD E. STEPHENS CONVENTION CENTER
ROSEMONT, IL

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WELCOME TO THE **ASSEMBLY SHOW 2017**



Dear ASSEMBLY Show Attendee,

Welcome to the fifth annual ASSEMBLY Show in Rosemont, IL!

As the assembly market's publication of record, we are thrilled to once again offer this dedicated assembly event, where manufacturing professionals can gather to learn about the latest products, innovative technologies and best practices.

This year's ASSEMBLY Show hosts nearly 300 exhibitors from around the world. Whether you're looking for an electric screwdriver, a dispensing valve, a robot or even a multistation automated assembly line, you'll find the best and newest technologies here at the ASSEMBLY Show.

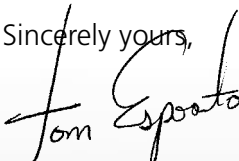
In addition to a packed exhibit floor, the show also offers a comprehensive educational program. All totaled, the program features some 20 hours of educational sessions. With topics ranging from Industry 4.0 and intelligent pneumatics to robotics and leak testing, I'm confident you'll learn something to share with your colleagues back at the plant.

Of course, learning isn't just about booth visits and presentations. I encourage you to take advantage of the many networking events at the show, which will give you an opportunity to exchange valuable ideas with colleagues, friends and peers. I would especially urge you to attend the various "Tech Talk" sessions on the show floor at booth 2423 (See page 37 for details). Help a fellow professional solve a problem or get help with an issue of your own!

It is our pleasure to have you as our guest. If there is 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 is my sincere hope that you will leave The ASSEMBLY Show better informed, better connected and better prepared to meet the challenges you face as an assembly professional.

Again, thank you for attending The ASSEMBLY Show.

Sincerely yours,


Tom Esposito

Publisher, ASSEMBLY Magazine

ASSEMBLY



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J. Lehmann

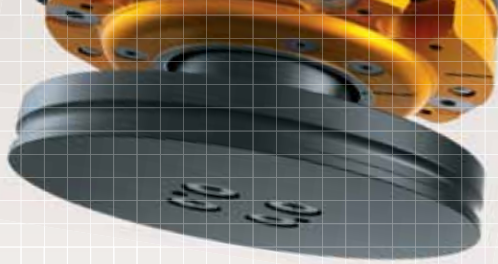
Jens Lehmann, German goalkeeper legend, SCHUNK brand ambassador since 2012 for precise gripping and safe holding. www.schunk.com/Lehmann



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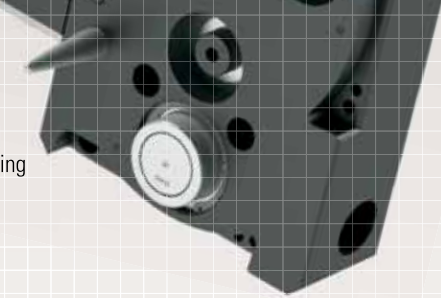
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Robotic Collision Sensors

Auto-reset eliminates the need to enter the robot cell to reset the device.



Utility Couplers

Built-in engineered rotational compliance allows for large tooling misalignments.

Robotic Tool Changers

A superior fail-safe design and quick tool changing means increased flexibility and productivity.

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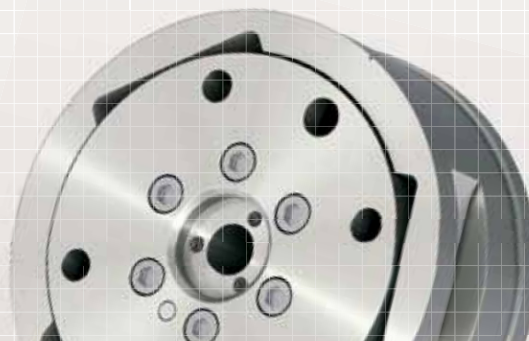
Robotic Deburring Tools

Air-actuated compliance allows for part and path variation.



Force/Torque Sensors

Measure force and torque with high overload protection and low noise.



AGENDA AT-A-GLANCE

TUESDAY, OCTOBER 24

1:00 – 4:00 pm
Conference Room #10 & #12

WORKSHOP #1
Industry 4.0

WORKSHOP #2
The Road to Operational Excellence

4:00 pm
Exhibit Hall Opens

4:00 – 7:00 pm
The Taste of Rosemont Welcome Reception (on the exhibit floor) *Sponsored By*



7:00 pm
Exhibit Hall Closes

WEDNESDAY, OCTOBER 25

9:00 – 10:00 am
Conference Room #13

KEYNOTE PRESENTATION
Faurecia's Digital Transformation
Derek Harper, Faurecia North America

Sponsored By



10:00 am
Exhibit Hall Opens

LEARNING THEATER PRESENTATIONS

Exhibit Hall, Aisle #2100

11:00 – 11:40 am

Find Your First (or Next!) IIoT Win with IO-Link
Will Healy III, Balluff Inc.

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sensors worldwide

What's Driving Assembly Line AGVs?
Rod Emery, RedViking

Sponsored By: **REDEVIKING**
BOLD ENGINEERING

12:00 – 12:40 pm

Smart and Cyber Safe Production Environments
Dave Garner, Desoutter Industrial Tools

Sponsored By: **Desoutter**

The Starting Point for Robot Automation: A Beginner's Tour
Rick Brookshire, Epson Robots

Sponsored By: **EPSON**
EXCEED YOUR VISION

1:00 – 1:40 pm

Digitalization & the Future of Intelligent Pneumatics
Sandro Quintero, Festo Corporation

Sponsored By: **FESTO**

Finding Leak Testing Success Through Calibration and Validation
Paul Chamberlain, LACO Technologies, Inc.

Sponsored By: **LACO TECHNOLOGIES**
CREATING VACUUM AND LEAK TESTING SOLUTIONS

1:40 – 2:00 PM
Booth #2423

Broken Bonds — Challenges in Adhesive Bonding
Teresa McPherson, Adhesives & Sealants Industry



LEARNING THEATER #1

LEARNING THEATER #2

AGENDA AT-A-GLANCE

WEDNESDAY, OCTOBER 25 *CONT'D*

LEARNING THEATER PRESENTATIONS

Exhibit Hall, Aisle #2100

2:00 – 2:40 pm

Roller Forming — A Viable Assembly Solution

Bryan Wright & Jacob Sponsler,
Orbitform

Sponsored By: 

Industry 4.0: Comau's Open Source Approach

Brent Kelso, Comau LLC

Sponsored By:



2:40 – 3:00 pm

Booth #2423

My Robot Won't Do What I Say — Challenges in Robotic Assembly

Jim Beretta, Customer Attraction



3:00 – 3:40 pm

Location Context for IIoT Platforms

Adrian Jennings, Ubisense

Sponsored By: 

4:00 – 4:40 pm

Just Smash It!

Sponsored By



5:00 pm

Exhibit Hall Closes

5:00 – 7:00 pm

'Pub Night' Networking Reception

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THURSDAY, OCTOBER 26

10:00 am

Exhibit Hall Opens

10:20 – 11:00 am

Just Smash It!

Sponsored By



11:00 – 11:20 am

Booth #2423

We're Screwed — Challenges With Threaded Fasteners

John Sprovieri, *ASSEMBLY Magazine*



LEARNING THEATER PRESENTATIONS

Exhibit Hall, Aisle #2100

11:20 – 12:00 pm

How to Choose the Right Transfer System for Your Assembly Operation

Gerald Berzins, Bosch Rexroth

Sponsored By



12:20 – 1:00 pm

Solving the OT-IT Systems Conflict for IIoT Deployment

Brandon Ellis and Keary Donovan,
elliTek, Inc.

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1:00 – 1:20 pm

Booth #2423

Our Kanban Canned—Challenges With Lean Manufacturing

Austin Weber, *ASSEMBLY Magazine*



1:20 – 2:00 pm

Ensure 100% Traceability and Quality of Your Products Using Microscan Automatic Identification and Machine Vision Systems

Steve King, Microscan

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3:00 pm

Exhibit Hall Closes

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 office is located just inside the entrance of Exhibit Hall A.

SPEAKER READY ROOM

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

PRESS ROOM

The press office is located off the lobby across from Starbucks.

COAT CHECK

Coat check is located in the level 1 lobby off of River Road. There is a fee of \$3 per item to utilize coat checking service.

FIRST AID

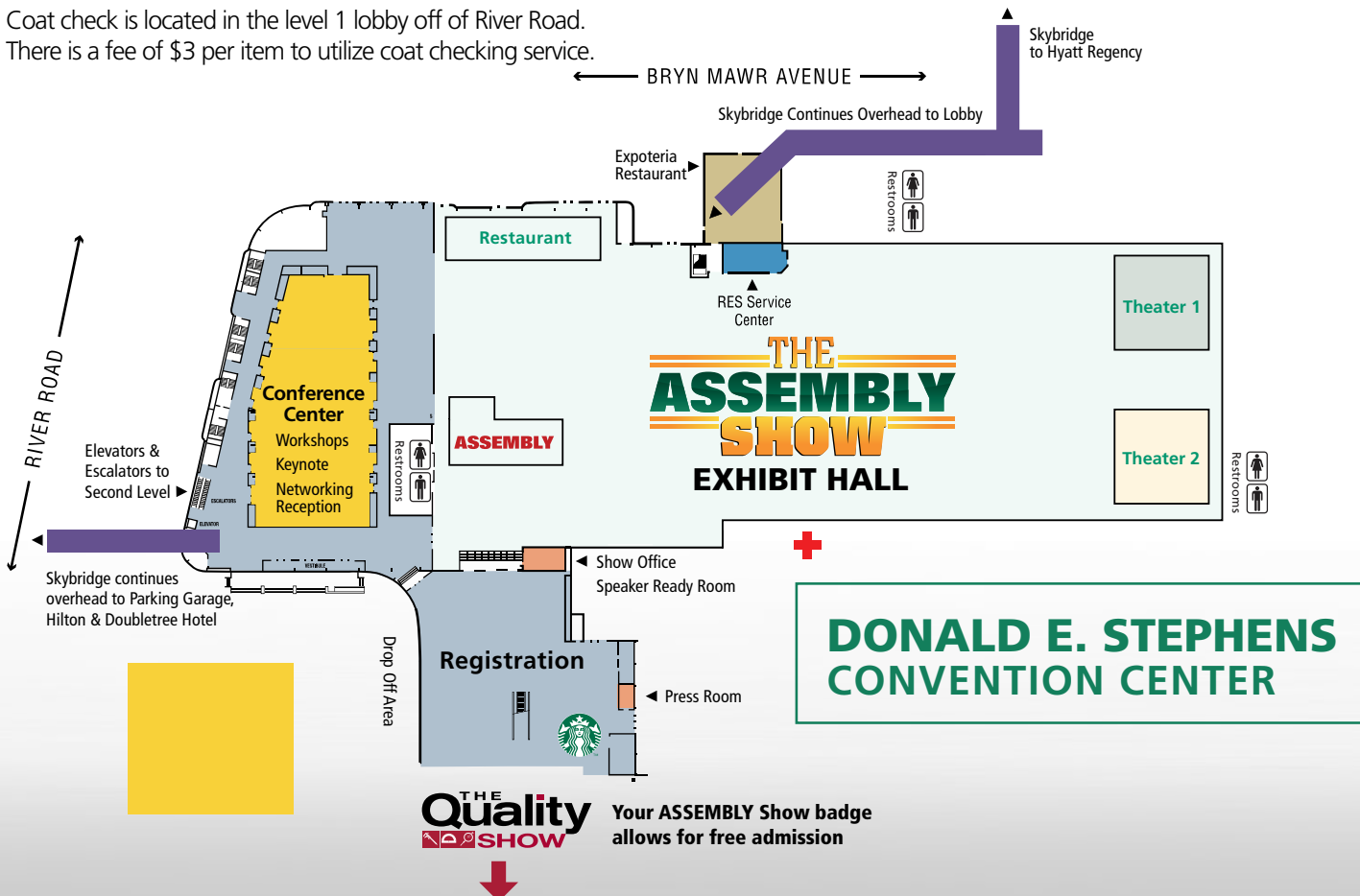
First Aid is located on the ramp between Hall A & Hall B, just south of booth #1205.

PHOTOGRAPHY

Unauthorized photography and/or video is not permitted and taking of 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 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.

EXHIBIT HALL HOURS

- Tuesday, October 24 // 4:00 pm – 7:00 pm
- Wednesday, October 25 // 10:00 am – 5:00 pm
- Thursday, October 26 // 10:00 am – 3:00 pm



You're ready. We're set. *Let's move.*

Connected Automation: Explore tomorrow's assembly and handling solutions today.



The Assembly Show
October 24-26, 2017
Rosemont, IL
Booth 431

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move?

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faurecia

Wednesday, October 25 • 9:00 – 10:00am
Location: Conference Room #13

Faurecia's Digital Transformation

DEREK HARPER
FAURECIA NORTH AMERICA

In 2015, Faurecia launched an initiative to transform itself into a digital enterprise. The company looked at every area where digital technology could enable gains in efficiency. These included applying simulation tools in R&D to increase innovation agility; capturing data from every machine and process to improve quality; and deploying collaborative engineering technology to improve communication with customers and increase knowledge-sharing within the company.

In this thought-provoking presentation, you will learn how Faurecia is capturing and analyzing data to prevent equipment failures, correct inefficiencies and increase productivity. You will discover how automated tracking of components via RFID tags is simplifying logistics and enabling real-time management of inventory flows and quality. You will see how real-time on-screen monitoring of production is replacing manual intervention, freeing employees for more valuable and rewarding work. And, you will learn how smart automation and collaborative robots are improving ergonomics and optimizing manufacturing.

Sponsored by



Derek Harper is the Vice President of Information Technology at Faurecia North America, based in Auburn Hills Michigan. In this role, Harper leads a team of more than 200 professionals located in 50 sites in the US, Mexico, and Canada. Harper's responsibility includes development and execution of the company's IT strategy with special focus on Digital Transformation, Manufacturing Execution Systems, SAP, and IT Operations.

Harper started his career as a controls engineer at Canedus Engineering in Oak Park, MI. He then moved to General Motors where he spent 17 years in various positions, including: Controls Engineer, Engineering Manager, Regional IT Manager, Mexico IT Launch Manager, and Senior IT Manager in charge of IT Operations and all North America Vehicle Assembly plants.



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PRE-SHOW WORKSHOP #1

Tuesday, October 24 • 1:00 – 4:00 pm • Location: Conference Room #12

► Industry 4.0

The fourth Industrial Revolution — **Industry 4.0** — is now upon us. We live in an increasingly smart and connected world. The number of physical devices or “things” connected to the Internet now exceeds the total number of people on the planet. For manufacturers, the implications of the Industrial Internet of Things (IIoT) are huge. According to a recent McKinsey Global Institute report, the IIoT has the potential to unleash as much as \$6.2 trillion in new global economic value annually by 2025. McKinsey also projects that 80 to 100 percent of all manufacturers will be using IIoT applications by then, leading to a potential economic impact of as much as \$2.3 trillion for global manufacturing alone. In this workshop, you’ll learn how the IIoT can transform your assembly operation.



► 1:00 – 1:35 pm
Industrial IoT Drives Innovations in Product Engineering
Sal Spada, Arc Advisory Group

The Industrial Internet of Things has created a tremendous opportunity to close the loop in product design. The Connected Machine is a sensor that provides performance and operational data directly from the customer site with unprecedented volumes of big data. Up until now, machine builders have been focusing on providing preventative maintenance services in order to service machinery before it fails. However, the latest trend in connected machinery is to incorporate closed loop engineering into the design process using big data sets collected from the field machinery to analyze performance. However, the technological advancements and the increasing content of software defined machinery is paving the way for machine builders to incorporate Live Engineering into the product development phase. Creating the internal processes to properly manage Live Engineering as part of the product offering requires product management platforms that support this degree of continuous engineering of machinery.



► 1:35 – 2:10 pm
Beyond the Edge of IIoT
Victor Caneff, Banner Engineering Corp

Much has been written about the cloud, data security and analysis, M2M communication, networks, software options, etc... relative to IIoT. This presentation goes beyond edge computing to the sensor and connectivity level where critical data is generated and transmitted. Examples of information manufacturers are looking to access to improve operational efficiencies in the areas of Overall Equipment Effectiveness, Predictive Maintenance, Facility Monitoring and Logistics will be reviewed.



► 2:25 – 3:00 pm
Creating the Future of Manufacturing
Natan Linder, Tulip

Just like we all use tools like computers and mobile phones to augment our everyday lives, manufacturers need technology that gives power to the people on shop floors. Manufacturing technologies like automation, robotics, injection molding, machining, and 3D printing may produce parts, but it’s people who ensure efficient operations and put those parts together to form cohesive, useful products. This session explores the implications of the Industrial Internet of Things for digital manufacturing by introducing an intelligent operating system for the digital shop floor, enabling real-time collaboration, integration, and analytics that bring people and machines together



► 3:00 – 3:35 pm
How to Leverage Today’s IIoT Technology to Drive Immediate Benefits
JP Provencher, PTC

A growing number of manufacturers are turning data collected from connected machines and products into meaningful insights that translate to business value. As the number of connected devices grows into the billions, the demand for more and better information from IIoT data will be outpaced only by the growth of the data itself. In this session, you’ll learn methods and technologies to gain the edge in operational efficiency, security and customer satisfaction.

► 3:35 – 4:00 pm
Open Discussion and Q&A

Tuesday, October 24 • 1:00 – 4:00 pm • Location: Conference Room #10

► The Road to Operational Excellence

Manufacturers are increasingly embracing operational excellence to gain and sustain performance improvements throughout the enterprise. Much of this management philosophy is based on earlier continuous improvement methodologies, such as lean thinking, Six Sigma, OKAPI and scientific management. The focus of operational excellence goes beyond the traditional event-based model of improvement toward a long-term change in organizational culture. In this workshop, you'll learn how to achieve operational excellence in your assembly plant.

► 1:00 – 1:35 PM

Escape the Improvement Trap: Five Ingredients Missing in Most Improvement Recipes

Brian McKibben, The Cumberland Group - Chicago, Inc.

Despite a near universal acceptance of lean manufacturing methods, most companies rarely achieve anything more than an average level of improvement maturity. This session will identify the five critical ingredients required for successful improvement:

- A meaningful business value proposition and strategy that drives key improvement actions.
- An engaging environment where people can do their best work.
- A focus on meaningful metrics while avoiding irrelevant details.
- Process improvement efforts that maximize cross-functional process performance and foster deeper process understanding, innovation, and execution of best work practices.
- An executive mindset that focuses on customer value, people development, process performance, and business improvement outcomes, not solely on savings.

You'll learn a variety of ways to accelerate continuous improvement, including team-based operating methods, leaders' standard work, balanced operations performance metrics, and the AME Excellence Award self-assessment.



► 1:35 – 2:10 pm

Operational Excellence: Lean's Next Frontier

Kevin Duggan, Institute for Operational Excellence

In this session, Kevin Duggan will define Operational Excellence, explain how it differs from traditional lean tools, and detail the principles to achieve it. He'll also discuss the real goal of Operational Excellence – business growth – and share real-world examples of companies who have experienced remarkable results by achieving it.



► 2:25 – 3:00 pm

Lean Implementation in High Mix, Low Volume and Other "Unique" Environments

Darril Wilburn, Honsa Associates

"It won't work here, we are unique." "We don't make widgets and we are not Toyota." "Our variety and complexity is too high, we can't do lean." These, and many others, are commonly heard reactions from management in high mix, low volume environments when their company is trying to implement Lean. In this session we will see and hear examples of organizations that utilize lean thinking and techniques to transform their operations. We will learn how companies utilize the Single Minute Exchange of Die (SMED) concept to realize the same lean objectives that drive traditional Lean operations.



► 3:00 – 3:35 pm

The Smart Factory: Industry 3.5, Production's Vital Role in Manufacturing's Journey to Success

Patrick Lucansky, Value Innovation Partners, Ltd.

Today manufacturers have networked equipment collecting data and storing it on servers, in varying clouds or in data lakes with little to no use of such information. What is possible today is this same equipment reporting elements of demand and flow to a workforce, oriented to a culture of continuous improvement, supported by machine learning. "Manufacturing management is challenged today to enable greater competitive advantages delivered consistently at higher speed, greater flexibility, higher quality, and at lower costs. To meet these challenges, operations will be required to greatly increase cycles of improvement, innovation and collaborative efforts across the organization."

► 3:35 – 4:00 pm

Open Discussion and Q&A

TASTE OF ROSEMONT WELCOME RECEPTION



THE TASTE OF ROSEMONT



TUESDAY, OCTOBER 24
4:00 – 7:00 pm

Location: Right in the Exhibit Hall!

- Show Kick Off
- Right in the Exhibit Hall
- Local Foods
- Preview Exhibits

A staple to the event is the welcome reception that takes place on the exhibit hall, aptly named the Taste of Rosemont! Sample local fare and get a sneak peek of the exhibits, and tools.

Thank you to these participating restaurants for offering their services and delicious foods. Please consider dining at these establishments during your stay in Rosemont!

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PUB NIGHT NETWORKING RECEPTION



WEDNESDAY, OCTOBER 25
5:00 – 7:00 pm

Location: Conference Center - Room #13

- Craft Beers
- Gourmet Burgers
- Live Music
- Bag Toss
- Giant Jenga

The ASSEMBLY Show is excited to bring back 'Pub Night' on the second evening of the show. Attendees and exhibitors will gather in the adjoining ballroom to kick back and relax over a pint, chat over burgers and make new connections while participating in pub-style games! This social environment will allow participants to make further connections with new professionals and continue to build relationships with existing business partners in a fun and exciting atmosphere.

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FESTO

NEW Tech Talks



techtalk

Tech Talks—held right on the show floor in booth 2423—are intended to provide an opportunity for manufacturing professionals to share solutions to common problems in product assembly. These 20-minute sessions will be facilitated by the editors of ASSEMBLY and other manufacturing

publications and organizations. No vendors, no sales pitches, no marketing hype, no bull. Just open, honest communication from one manufacturing professional to another.

NEW Just Smash It!



How much force can a bowling ball handle before being pulverized? See for yourself in Learning Theater #1 at 4pm on 10/25 and again at 10:20am on 10/26 during the entertainingly destructive *Just Smash It* segment, where everyday items are put to the test to see how much force it takes to SMASH IT.

Presented by:



NEW TASTV

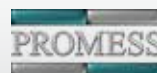


TASTV

Throughout the exhibit hall and common areas TASTV will be your go-to source for onsite information and entertainment.

Watch video segments about sessions, weather, things to do around Rosemont, interviews, workshops, daily highlights and so much more.

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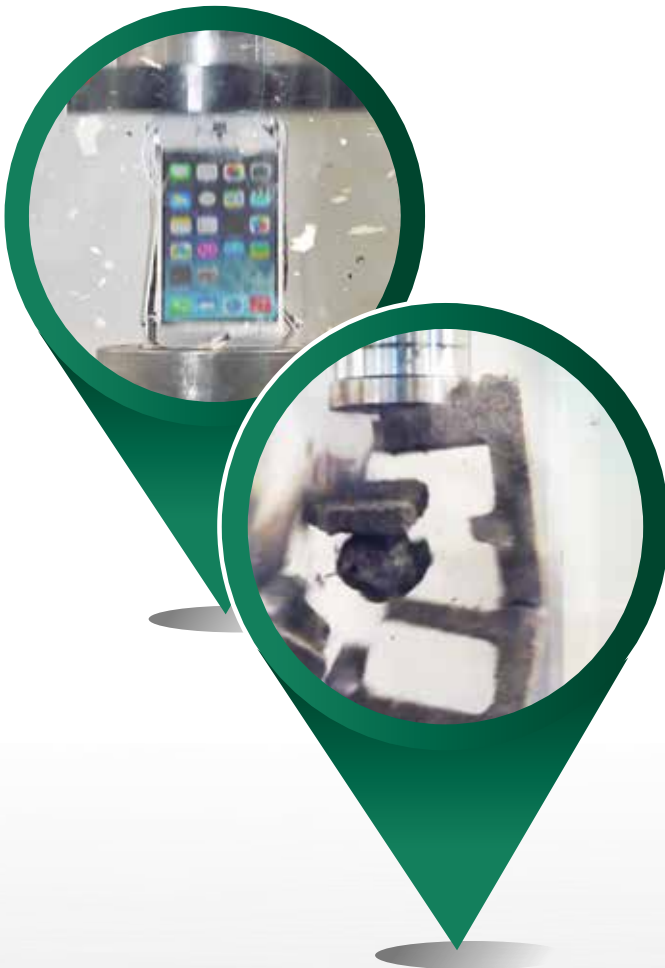
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LEARNING THEATER #1

▶ **WEDNESDAY, OCTOBER 25**
4:00 – 4:40pm

▶ **THURSDAY, OCTOBER 26**
10:20 – 11:00am



How much force can a bowling ball handle before being pulverized? See for yourself during the entertainingly destructive *Just Smash It!* segment, where everyday items are put to the test to see how much force it takes to SMASH IT.

Presenters:

Glenn Nausley, President,
Promess Incorporated

John Boerema, New Business
Development Manager,
Promess Incorporated

Mick Berge, Digital Media Producer,
Promess Incorporated

Scott Spencer, Applications Engineer,
Promess Incorporated

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AGENDA

TUESDAY, OCTOBER 24, 2017

▶ 1:00 pm – 4:00 pm Location: Conference Room #12

WORKSHOP #2: INDUSTRY 4.0

The fourth Industrial Revolution—Industry 4.0—is now upon us. We live in an increasingly smart and connected world. The number of physical devices or “things” connected to the Internet now exceeds the total number of people on the planet. For manufacturers, the implications of the Industrial Internet of Things (IIoT) are huge. In this workshop, you’ll learn how the IIoT can transform your assembly operation.

▶ 1:00 pm – 4:00 pm Location: Conference Room #10

WORKSHOP #2: THE ROAD TO OPERATIONAL EXCELLENCE

Manufacturers are increasingly embracing operational excellence to gain and sustain performance improvements throughout the enterprise. The focus of operational excellence goes beyond the traditional event-based model of improvement toward a long-term change in organizational culture. In this workshop, you’ll learn how to achieve operational excellence in your assembly plant.

▶ 4:00 pm **Exhibit Hall Opens**

▶ 4:00 pm – 7:00 pm Location: Exhibit Hall

‘Taste of Rosemont’ Welcome Reception

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.



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▶ 7:00 pm **Exhibit Hall Closes**

WEDNESDAY, OCTOBER 25, 2017

▶ 9:00 – 9:05 am Location: Conference Room #13

Opening Remarks

John Sprovieri, *Editor in Chief, ASSEMBLY Magazine*

▶ 9:05 – 9:10 am Location: Conference Room #13

Assembly Plant of The Year Award Presentation

Austin Weber, *Senior Editor, ASSEMBLY Magazine*

▶ 9:10 – 10:00 am Location: Conference Room #13

KEYNOTE PRESENTATION Faurecia’s Digital Transformation



DEREK HARPER

Vice President of Information Technology, Faurecia North America

In this thought-provoking presentation, you’ll learn how Faurecia is capturing and analyzing data to prevent equipment failures, correct inefficiencies and increase productivity. You’ll discover how automated tracking of components via RFID tags is simplifying logistics and enabling real-time management of inventory flows and quality. You’ll see how real-time on-screen monitoring of production is replacing manual intervention, freeing employees for more valuable and rewarding work. And, you’ll learn how smart automation and collaborative robots are improving ergonomics and optimizing manufacturing.

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WEDNESDAY, OCTOBER 25, 2017

LEARNING THEATER PRESENTATIONS | LOCATION: EXHIBIT HALL, AISLE #2100 | THEATER 1 THEATER 2

▶ 11:00 – 11:40 am

Find Your First (or Next!) IIoT Win with IO-Link



Will Healy III, *Balluff Inc.*

Manufacturers looking to improve maintenance reliability, reduce downtime and enhance factory performance are finding real value by implementing Industrial IoT solutions in their facilities & processes. IO-Link is a universal, smart & easy to implement technology being explosively adopted in manufacturing automation and is a strong enabler of IIoT & Industry 4.0 applications. IO-Link is covered under IEC 61131-9 & IO-Link products are offered by all major automation suppliers across a wide set of factory automation IIoT applications. Major reasons like reduced machine build costs & increased overall equipment effectiveness (OEE) are cited as driving factors in their decisions. We will explore, with multiple real world case studies, just how easy IO-Link is to integrate & support, how the universal standard works, and how smart devices can enable & scale your next IIoT, Industry 4.0 or Smart Factory project.

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What's Driving Assembly Line AGVs?



Rod Emery, *RedViking*

As product lives become shorter and multi-model factories become the norm, the need for flexible assembly line technologies is growing. Automated Guided Vehicles (AGVs), with their independent movement, variable speeds, and easily changed fixtures, create flexibility that traditional conveyance can't match. In this presentation, I'll review case studies on why AGVs might or might not be the best choice for your plant. I'll also address when battery-power is the best choice, and when it makes sense to use inductively powered battery-free AGVs. Last, I'll talk about ways to gradually phase in AGVs to prove out their capabilities and give manufacturing teams time to become comfortable with this technology.

RedViking designs and builds assembly lines, including process design, machines, conveyance, quality systems, and MES. Located in Plymouth, MI, Raleigh, NC, and Corpus Christi, TX, we serve many manufacturing industries including automotive, aerospace, defense, and heavy equipment.

Sponsored By: **REDAVIKING**
BOLD ENGINEERING

▶ 12:00 – 12:40 pm

Smart and Cyber Safe Production Environments



Dave Garner, *Desoutter Industrial Tools*

Managing production assets continues to be a new source for cost reduction and process improvement. This is the combination of the digital and physical assets on our production floors.

As our devices get more intelligent, we have more ways to interact and manage them. This improves many aspects of production; Location management, security, preventative maintenance, guided processes, and even communicating with other devices on the floor.

We must also prepare to manage our digital assets. Information is one of the most important assets on the production floor. Production data is used for determining product build processes all the way to organizing and managing completed product data. It is essential that this information is managed as closely as our physical assets. Ensuring this information is secure, decentralized, documented, and uniform, will allow the foundation required to excel with the agility required for Industry 4.0.

Sponsored By: **Desoutter**

The Starting Point for Robot Automation: A Beginner's Tour



Rick Brookshire, *Epson Robots*

From assembly and pick-and-place to material handling and packaging, the use of robots is on the rise in factory automation. Extremely customizable in even the most complex applications, automation systems are beneficial for a wide variety of reasons. Taking the plunge into automation, however, can be confusing and daunting. With so many factors to consider, you may be wondering, "Where do I start?"

With over 35 years of experience in the automation industry, we have broken down the process, step-by-step, to guide you on your journey. This presentation will serve well as a starting point for those new to automation.

We will take you, step-by-step, to guide you on your journey touching on the following key areas:

- What to automate
- Know your process
- Identify your requirements
- Automation components
- Manpower—who will build it?

You will come away with a good understanding on how get started with robotics in automation and the key aspects to consider.

Sponsored By: **EPSON**
EXCEED YOUR VISION

AGENDA

WEDNESDAY, OCTOBER 25, 2017

LEARNING THEATER PRESENTATIONS | LOCATION: EXHIBIT HALL, AISLE #2100 | THEATER 1 THEATER 2

▶ 1:00– 1:40 pm

Digitalization & the Future of Intelligent Pneumatics



Sandro Quintero, Festo Corporation

The digital transformation in industry will influence all aspects of machine control, including pneumatics. Future solutions must facilitate a variety of control paradigms for flexible operation, contextualized data for OEE and energy consumption, and local intelligence to compensate for faults, wear, etc. They must also support mobility and security to minimize downtime. Learn how the future of intelligent pneumatics can fulfill these digitalization requirements for IIoT/Industry 4.0, and support Cloud analytics for pneumatic systems.

Sponsored By: **FESTO**

Finding Leak Testing Success Through Calibration and Validation



Paul Chamberlain, LACO Technologies, Inc.

The application of proper system calibration and validation is critical in producing a high degree of confidence in your production leak testing system—measuring leak rates properly and identifying defective parts that could be leaking above your threshold limit is central to the success of your leak testing process.

Learn how the use of calibrated leak standards in your leak testing process should be used to calibrate and validate your system. We'll discuss how identifying the different types of leak standards and how integrating those into your leak test process will assist you in implementing a successful leak test protocol. We will review strategies that can be used for both air (pressure decay and mass flow) and helium tracer gas leak test methods.

Sponsored By: **LACO TECHNOLOGIES**
CREATING VACUUM AND LEAK TESTING SOLUTIONS



▶ 1:40 – 2:00 pm Location: Booth #2423

Broken Bonds — Challenges in Adhesive Bonding

Teresa McPherson, Adhesives & Sealants Industry

Do you have a problem with an adhesive bonding application? Is the bonded joint failing prematurely? Are you wasting a lot of material during dispensing? Chances are, other engineers have had the same problem, too. Learn how they solved the problem at this Tech Talk, or help others solve their issues.



WEDNESDAY, OCTOBER 25, 2017

LEARNING THEATER PRESENTATIONS | LOCATION: EXHIBIT HALL, AISLE #2100 | THEATER 1 THEATER 2

▶ 2:00 – 2:40 pm

Roller Forming — A Viable Assembly Solution



Bryan Wright & Jacob Sponsler,
Orbitform

Static rollerforming uses spinning rollers and down-force to create an aesthetically pleasing lip. The non-impact nature of the process, combined with its inherent precision and accuracy, make it possible to form delicate or brittle materials. Static rollerheads provide consistency and efficiency to your forming process.



Articulating rollerforming has rollerheads that come in from the side, and can be used to form a groove in a part, or when there are obstructions to clear in order to form a lip. 360° contact gives consistent action for the duration the part is being formed.

By adding process intelligence it is possible to accurately monitor and/or control the forming force, distance, and stroke during the rollerforming process.

Advantages

- Can accommodate a through spindle pressure pad to compress material before forming
- Minimizes scuffing, galling, and material pick up
- Allows the use of smaller tooling to form large diameter applications
- Requires less force than Orbital Forming

Sponsored By:  **Orbitform**
...solutions delivered.

Industry 4.0: Comau's Open Source Approach



Brent Kelso, *Comau LLC*

Industry 4.0, the digitalization of the manufacturing environment, is rapidly changing the industrial automation market and the consumer markets as well. Comau is focused on leading this "new era of automation" with open, connected and easy to understand/use products and systems. Approaches to Industry 4.0 in areas such as digital workspace, advanced robotics, logistics and collaborative robots will be presented including a demonstration of this approach with Comau's recently launched innovative e.DO robot, developed in a modular perspective and in open-source from a team of Comau engineers working in collaboration with external partners.

Sponsored By:



▶ 2:40 – 3:00 pm Location: Booth #2423

My Robot Won't Do What I Say — Challenges in Robotic Assembly **Jim Beretta,** *Customer Attraction*

Are you having difficulty with a robotics application? Perhaps your SCARA constantly drops parts, or maybe that six-axis robot isn't running quite as fast as you think it should. Other engineers have probably experienced the same issues. Learn what they did at this Tech Talk, or help others solve their problems.



AGENDA

WEDNESDAY, OCTOBER 25, 2017

LEARNING THEATER PRESENTATIONS | LOCATION: EXHIBIT HALL, AISLE #2100 | THEATER 1 THEATER 2

▶ 3:00 – 3:40 pm



Location Context for IIoT Platforms Adrian Jennings, Ubisense

Sponsored By: Ubisense

The Industrial Internet of Things (IIoT) or “Industry 4.0” describes a future in which context-aware smart systems can continually re-optimize themselves to make leaps in quality and efficiency, despite the growing complexity of manufacturing operations. Mr. Jennings argues that a critical context to enable such leaps is location. Indeed, automotive assembly plants are a complex feat of coordination, ensuring that the correct tool is used in the target process, on the right vehicle, in the designated workstation, in the planned sequence and within a precise takt-time.

Mr. Jennings will describe case-studies highlighting the importance of location awareness for improving quality and reducing waste in assembly plants. These examples lead to a discussion of the requirements for a location-aware IIoT platform. Examples taken from practical deployments will highlight the need for scalability, from very small to very large, production-critical reliability and the importance of very low latency to manage industrial controls.

▶ 4:00 – 4:40 pm

Location: Learning Theater 1

Sponsored By: PROMESS



JUST SMASH IT!

How much force can a bowling ball handle before being pulverized?

See for yourself during the entertainingly destructive *Just Smash It!* segment, where everyday items are put to the test to see how much force it takes to SMASH IT.

Presenters: **Glenn Nausley**, President • **John Boerema**, New Business Development Manager
Mick Berge, Digital Media Producer • **Scott Spencer**, Applications Engineer

▶ 5:00 pm

Exhibit Hall Closes

▶ 5:00 pm – 7:00 pm Location: Conference Room #13
'Pub Night' Networking Reception

Sponsored By: FESTO

The ASSEMBLY Show is excited to bring back 'Pub Night' on the second evening of the show. Attendees and exhibitors will gather in the adjoining ballroom to kick back and relax over a pint, chat over burgers and make new connections while participating in pub-style games! This social environment will allow participants to make further connections with new professionals and continue to build relationships with existing business partners in a fun and exciting atmosphere.

THURSDAY, OCTOBER 26, 2017

▶ 10:20 – 11:00 am Location: Learning Theater 1

Sponsored By: PROMESS



JUST SMASH IT!

In case you missed it on Wednesday afternoon (or just want to see it again), a second *Just Smash It!* segment will take place on Thursday morning! Don't miss this 'smashing' experience!

Presenters: **Glenn Nausley**, President • **John Boerema**, New Business Development Manager
Mick Berge, Digital Media Producer • **Scott Spencer**, Applications Engineer



▶ 11:00 – 11:20 am Location: Booth #2423

We're Screwed — Challenges With Threaded Fasteners John Sprovieri, ASSEMBLY Magazine

techtalk

Whenever there's a problem with a screwdriving application, the tool manufacturer invariably blames the fastener supplier—and vice versa. Maybe a sheet-metal screw is stripping all the time, or maybe that plastic boss is cracking constantly. You're not the first. Get help from fellow engineers at this Tech Talk, or help others solve their issues.

THURSDAY, OCTOBER 26, 2017

LEARNING THEATER PRESENTATIONS | LOCATION: EXHIBIT HALL, AISLE #2100 | THEATER 1 THEATER 2

▶ 11:20 am – 12:00 pm

How to Choose the Right Transfer System for Your Assembly Operation

Sponsored By: **Rexroth**
Bosch Group



Gerald Berzins, *Bosch Rexroth*

The demands on today's assembly operations intensify daily, and your assembly operations need to keep pace. The good news is: You have more choices than ever in transfer system technologies. The bad news? You have more choices than ever in transfer system technologies.

How can you make sure that the choices you make today will keep up with the extreme speed of innovation in the products your company manufactures?

Long-time Rexroth application engineering expert Gerald Berzins will discuss the conveyor technology choices you have, from manual production systems to high-speed, high-volume, fully automated systems. He'll also discuss how to build a system that can evolve from manual to automated as your production needs change, including a few thoughts on I4.0. Whether you're a long-time manufacturing pro or just getting started, you won't want to miss this informative session.

▶ 12:20 – 1:00 pm

Solving the OT-IT Systems Conflict for IIoT Deployment

Sponsored By: **elliTek**



Brandon Ellis and Keary Donovan, *elliTek, Inc.*

IT admins have two problems securing their company's networks: 1) Dumb Users 2) Smart Users...

No admins want the security problem of engineers' PCs entering their IT network, and no engineers want the process and QA risk of the office's PCs on their Operational Technology (OT) network. But why? Aren't they both hyper-diligent about the data integrity of their networks?



Smart Manufacturing has been made overly difficult because manufacturers are trying to converge systems that should be isolated from each other. Join us for a how-to workshop session to learn how an MES gateway appliance, rather than PC-based and OPC middleware solutions, protects both OT and IT network systems to deliver point-to-point communication between manufacturing devices (e.g. PLCs, vision systems) and ERP database servers (e.g. SQL, SAP).



▶ 1:00 – 1:20 pm Location: Booth #2423

Our Kanban Canned—Challenges With Lean Manufacturing

Austin Weber, *ASSEMBLY Magazine*

Are you having trouble getting started on your lean journey? Sure, implementing 5S was easy, but instituting continuous flow, well, that's another story. It's OK. Come to this Tech Talk and pick the brains of fellow engineers, or help others solve their issues.



▶ 1:20 – 2:00 pm

Ensure 100% Traceability and Quality of Your Products using Microscan Automatic Identification and Machine Vision Systems

Sponsored By: **MICROSCAN**

Steve King, *Microscan*

Microscan is known throughout the Pharmaceutical, Medical Device, Packaging, Electronics, Automotive and Document Handling industries as a premier provider of laser and imager based Automatic Identification and Machine Vision systems, and as having a reputation for delivering high quality, reliable products as well as world class applications and technical support.

Microscan's broad suite of code reading, code quality verification, inspection, gauging and guidance algorithms have been honed over the past 35 years. These capabilities are delivered through a scalable suite of industrial ready Smart Sensors, Smart Cameras and PC based systems using extremely powerful, yet simple and intuitive setup and runtime software suitable for use by the line operator all the way up to the engineering level.

This presentation will show you the benefits of employing this automation technology in your production environments through the demonstration of its use in common manufacturing applications. It will also introduce you to the entire suite of Microscan products, and provide a guide on how to pick the right components for your specific sensing needs.

▶ 3:00 pm

Exhibit Hall Closes

EXHIBITOR LISTINGS

3Arm America

Booth 848

106 W. Ohio Ave.
Mount Vernon, OH 43050
740-392-1549
www.3armamerica.com

The 3Arm ergonomic arms are the strongest, most dependable arms available in the world marketplace today. They can be used for assistance in assembly, grinding, deburring, off-line machining and manipulating applications. Wherever operator fatigue is concern for employee safety, productivity or quality, 3Arm has a solution. EuroLink has been the North American representative and importer since 2006.

Adhesives & Sealants Industry

Booth 1102

2401 W. Big Beaver Rd., Suite 700
Troy, MI 48084
248-786-1717
www.adhesivesmag.com

Adhesives & Sealants Industry provides quality and up-to-date content covering all aspects of using adhesives and sealants, formulating and manufacturing. Adhesives & Sealants Industry presents real-world solutions to processing, manufacturing and application problems, and covers key issues such as environmental regulation, legislative concerns and global trade.

Adhesives Research

Booth 1548

400 Seaks Run Rd.
Glen Rock, PA 17327
717-235-7979
www.AdhesivesResearch.com

An industry leader for over 55 years, Adhesives Research (AR) creates pressure-sensitive and heat-activated engineered tapes (silicone, acrylic and rubber) for industrial bonding and assembly applications. AR strives to meet the needs of customers in markets such as automotive, construction, aerospace and high-performance textiles.

Aero-Space Fasteners and Electronics

Booth 1545

9270 Bryant Ave. S.
Bloomington, MN 55420
800-234-4725
www.ascsc.com

Aero-Space Fasteners and Electronics specializes in engineered fasteners, electronic components, cable assemblies, castings, plastics, mechanical hardware, printed circuit boards and more. Established in 1963, Aero-Space is an AS9120 certified and factory-authorized distributor. Through our large inventory and creative supply chain solutions, we partner with our manufacturers to provide the best customer service in the industry.



Afag Automation AG

Booth 600

820 Fessler's Parkway, Suite 210
Nashville, TN 37210
260-417-6452
www.afag.com/en

Afag produces world-class feeding, handling and parts transfer systems. Based upon a systematic approach of standardized components, these systems are engineered to provide lasting value. Pick-and-place systems provide speed and accuracy, while the feeding systems are smooth, quiet and reliable. Patented technology gives Afag solutions an edge like no other.

AGCO Corp.

Booth 1754

202 Industrial Parkway
Jackson, MN 56143
507-847-2690
www.agcocorp.com

AGCO is a global leader in the design, manufacture and distribution of agricultural equipment. Through well-known brands including Challenger, Fendt, GSI, Massey Ferguson and Valtra, AGCO delivers agricultural solutions to farmers worldwide through a full line of tractors, combine harvesters, hay and forage equipment, seeding and tillage implements, grain storage and protein production systems, as well as replacement parts.

The AGCO facility in Jackson, MN, was awarded the Assembly Plant of the Year for 2017. Learn why this plant received this high honor by visiting them at The ASSEMBLY Show!

Ahaus Tool and Engineering Inc.

Booth 443

200 Industrial Parkway
P.O. Box 280
Richmond, IN 47374
765-962-3571
www.ahaus.com

Ahaus designs and builds custom manufacturing equipment, ranging from workholding fixtures to special machines and fully automated cells. We pride ourselves on our team approach to deliver innovative equipment to help your manufacturing business be successful.



AIMCO

Booth 1205

10000 S.E. Pine St.
Portland, OR 97216
503-254-6600
www.aimco-global.com

Since 1970, AIMCO has been providing superior global assembly and critical bolting tooling solutions for the automotive, ag, off-road, electronics, aerospace, energy services and general assembly industries. AIMCO has become a leading importer and exporter of industrial power tools, and is the United States' exclusive importer for Japanese manufacturer Uryu Seisaku Ltd. In 1999, AIMCO began manufacturing its AcraDyne line, a complete line of DC controlled tools ranging from 1 to 12,000 newton-meters, custom-built multiple spindle systems, and state-of-the-art tool controllers. Our service, repair and calibration labs provide fast turnaround on repairs. All electronic torque equipment meets NIST standards.

AirBoss Air Tools Co. Ltd.

Booth 1915

No. 1688, Zhongke Rd.
Xitun District, Taichung City, 40760
Taiwan
886-4-2451-1968
www.twairboss.com

Airboss Air Tools is a manufacturer of industrial and professional air tools, such as air impact wrench, screwdriver, straight and angle grinder, turbolap, sander and other tools. AirBoss tools are known for their long lifetime, excellent performance and user friendliness. Our production process includes the most advanced manufacturing equipment from Japan, Switzerland and Taiwan. We follow a strict quality management system to ensure that our air tools perfectly fit your particular application with outstanding performance and create the highest value.

Air-Vac Automation

Booth 1602

30 Progress Ave.
Seymour, CT 06483
203-888-9900
www.air-vac-automation.com

Air-Vac Automation manufactures high-precision robotic platforms for micro-assembly, dispensing, curing and inspection. Features include general pick and place, wafer ejecting, flipping, forming, bonding, marking, kitting and sorting, testing, in-line conveyors, stack tray feeders, vibratory feeders, waffle trays and dispensing, including jet, auger and time-pressure systems. Systems can be configured as tabletop platforms or full production cells. Accuracy down to 5 micron placements. Speeds up to 3 meters per second. From prototypes to production, we can integrate any of your assembly needs.

Alfing Corp.

Booth 1637

44160 Plymouth Oaks Blvd.
Plymouth, MI 48170
734-414-5884
www.alfing.com

Alfing Montagetechnik GmbH (AMT) opened its doors in 1981. It is active in the fields of nutrunner technology, assembly machines and automation. The US subsidiary, Alfing Corp., was founded in 1992 and has since then

established itself as a major supplier in the automotive and other large-scale manufacturing industries. Since its foundation, Alfing Corp. has sold over 300 manufacturing systems, special purpose machines and machining centers throughout the U.S. and Mexico.

Alliance for American Manufacturing

Booth 1717

711 D St. N.W., 3rd Floor
Washington, DC 20004
202-393-3430
www.americanmanufacturing.org

The Alliance for American Manufacturing (AAM) is a nonprofit, nonpartisan partnership formed in 2007 by some of America's leading manufacturers and the United Steelworkers. Our mission is to strengthen American manufacturing and create new private-sector jobs through smart public policies. We believe that an innovative and growing manufacturing base is vital to America's economic and national security, as well as to providing good jobs for future generations. AAM achieves its mission through research, public education, advocacy, strategic communications and coalition-building around the issues that matter most to America's manufacturers and workers.

American Hakko Products Inc.

Booth 1805

28920 Avenue Williams
Valencia, CA 91355
661-294-0090
www.HakkoUSA.com

American Hakko Products Inc. is a manufacturer and supplier of Hakko soldering and desoldering systems, hot-air rework systems for surface-mount devices BGA rework systems, smoke and fume extraction systems, and CHP-brand hand tools, assembly tools, including torque-control electric screwdrivers and accessories, screw feeders, torque-tool calibration equipment, and static-control supplies for the production line.

American Ultraviolet

Booth 1245

212 S Mount Zion Rd.
Lebanon, IN 46052
765-483-9514
www.americanultraviolet.com

Experienced provider of ultraviolet curing solutions since 1960.

APEX Assembly and Fabrication Tools

Booth 2219

762 W. Stewart St.
Dayton, OH 45417
800-845-5629
www.apex-tools.com

Since 1933, APEX has been delivering high-quality, robust solutions for both assembly and MRO applications. We take pride in our capability to provide customers with innovative, robust tools that increase productivity, operating efficiency and operator safety. APEX understands that it is all about durability and consistency. Hence our tools are designed to fit and perform better, and last significantly longer, than competitive tools.

Appliance Design Magazine

Booth 2002

2401 W. Big Beaver Rd., Suite 700
Troy, MI 48084
847-405-4044
www.appliancedesign.com

Appliance Design is published for the OEM design engineer in the commercial and consumer markets worldwide. The magazine has trends, new products, industry news and featured editorial that target the appliance, consumer electronic, HVAC and smart technology markets. Information is provided with an integrated approach that includes our monthly audited print magazine.

Applied Robotics Inc.

Booth 1800

648 Saratoga Rd.
Glenville, NY 12302
518-384-1000
www.appliedrobotics.com

Applied Robotics is an expert at bringing greater speed, flexibility and efficiency to your automation-based processes. Our product set is comprised of tool changers, collision sensors, grippers and other

EXHIBITOR LISTINGS

mechatronic accessories engineered to bring your automation concept to reality. Material handling, assembly, cutting, dispensing, machining and welding are just some of the many applications supported. With over 30 years of experience engineering complex robotic and automation equipment, Applied Robotics was the first company to develop automated tool changers and continues to engineer state-of-the-art solutions allowing our customers to stay at the forefront of their respective industries all over the world.



Aries Engineering **Booth 631**

130 Aries Dr.
Dundee, MI 48131
734-529-8855
www.hypercyl.com

HyperCyl-EMA is a robust, servo actuator designed for precision assembly and forming applications. Capable of 0.0025-millimeter repeatability in sizes 1 to 25 tons, HyperCyl-EMA provides a heavy-duty and supremely accurate alternative to hydraulics. HyperCyl hydropneumatic cylinders come in sizes from 1 to 200 tons. Five standard design configurations are available. HyperCyl provides a reliable, low-cost solution for all your high-force needs. Force and distance monitoring is offered along with a cleaner, more reliable technology versus hydraulics. Cylinders, presses and turnkey packages designed to your specifications are also available.



Arthur G. Russell Co. Inc. **Booth 721**

750 Clark Ave.
Bristol, CT 06010
860-583-4109
www.arthurgrossell.com

Arthur G. Russell designs and develops innovative automatic assembly systems for the medical device, consumer products and automotive industries. Automated visual inspection, testing,

adhesive dispensing, and UV curing are typical processes integrated into our assembly systems. We specialize in high-speed mechanical systems designed for years of trouble-free use. Our ability to handle parts at high speeds led to specialization in ultra high-volume feeding devices. For over 70 years, we have been designing, building, installing and supporting world-class assembly, test, inspection and packaging systems.



ASG, Division of **Jergens Inc.** **Booth 323**

15700 S. Waterloo Rd.
Cleveland, OH 44110
216-706-6419
www.asg-jergens.com

ASG, Division of Jergens Inc., has been offering products and solutions for assembly since 1976. With headquarters in Cleveland, subsidiaries in Shanghai (China) and Mumbai (India), and sales offices in Mexico and Europe, ASG offers a complete line of torque-control screwdrivers, workstation accessories, production aids, precision fastening equipment, and complete turnkey automation solutions through ASG Assembly, Industrial, Precision Fastening, and Automation Product Groups.

ASSEMBLY

ASSEMBLY **Booth 111**

2401 W. Big Beaver Rd., Suite 700
Troy, MI 48084
248-362-3700
www.assemblymag.com

ASSEMBLY covers the processes, technologies and strategies for assembling discrete parts into finished products. We write about robots, conveyors, vision systems and other technologies for assembly automation, as well as workstations, power tools and other equipment for manual production. We publish articles on lean manufacturing, screwdriving, riveting, adhesive bonding, welding and other methods for assembling parts. ASSEMBLY serves 54,000

engineers and managers responsible for designing and manufacturing cars, computers, catheters, coffeemakers and everything in between. Our readers make large products in small volumes and small products in large volumes.

ASSEMBLY Plant of the Year **Booth 1754**

2401 W. Big Beaver Rd., Suite 700
Troy, MI 48084
248-362-3700
www.assemblymag.com/plantoftheyear

The Assembly Plant of the Year award, sponsored by ASSEMBLY Magazine, showcases world-class production facilities in America. The goal of the award is to identify a state-of-the-art facility that has applied first-rate processes to reduce production costs, increase productivity, shorten time to market or improve product quality. Recipients of the award include AGCO (2017), Bosch Rexroth (2016), Polaris (2015), Stihl (2014), Northrup Grumman (2013), Ford Motor Co. (2012), Phillips Respironics (2011), Eaton Corp. (2010), Batesville Casket Co. (2009), IBM Corp. (2008), Schneider Electric/Square D (2007), Lear Corp. (2006), Xerox Corp. (2005), and Kenworth Truck Co. (2004).

Assembly Tool Specialists Inc. **Booth 1920**

9002 Dutton Dr.
Twinsburg, OH 44087-1931
330-425-4466
www.assemblytoolspecialists.com

Assembly Tool Specialists designs and manufactures high-quality, unique tools that prevent damage to products and prevent worker injuries on the assembly line. Our "No-Mar" gap and flushness gauges—including taper, square, pin, step and radius—are made of plastic, with easy-to-read measurements. Our fastening tools have "Spin-Free" plastic sleeves to reduce and eliminate repairs, repainting and replacement of your finished products. We cover the pinch points between the power tool and fastener to protect your operators from injury. All of our products are proudly made in the U.S.A. by a member of the Women's Business Enterprise National Council.



**Association for Advancing Automation
Booth 2238**

900 Victors Way, Suite 140
Ann Arbor, MI 48108
734-994-6088
www.a3automate.org

The Association for Advancing Automation (A3) is the global advocate for the benefits of automating. A3 promotes automation technologies and ideas that transform the way business is done. A3 is the umbrella group for Robotic Industries Association (RIA); AIA—Advancing Vision + Imaging; Motion Control and Motor Association (MCMA); and A3 Mexico. RIA, AIA, MCMA and A3 Mexico combined represent over 1,000 automation manufacturers, component suppliers, distributors, system integrators, end

users, research groups and consulting firms worldwide that drive automation forward.



**Asutec
Booth 1000**

816 E. Third St.
Buchanan, MI 49107
888-674-2839
www.leanfactoryamerica.com

With creativity, German quality and customer focus, Asutec applies over 20 years of experience in the field of conveyor component technology. Regardless of your conveying platform or system configuration, Asutec's family of stops, dampeners, separators and positioning modules provide a ready, reliable and proven solution for material and traffic flow management. The company has partnered with Lean Factory America as their exclusive

channel to market in North America.



**ATC Automation
Booth 521**

101 Mill Dr.
Cookeville, TN 38501
931-528-5417
www.atcautomation.com

ATC Automation provides custom assembly and test automation for a variety of industries including transportation, energy storage, life science and consumer products. The size of ATC's automated systems ranges from complete "factories in a box" to small, lean systems that can be integrated into a current manufacturing process. ATC is an ISO 9001:2008 certified company with 40 years of experience building automated solutions.

AUTOMATIC SCREWDIVING SYSTEMS.

Over 25 years of building on any brand of screwdrivers.

Adjustable torque;
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See us at The ASSEMBLY Show, Booth #1417

EXHIBITOR LISTINGS



ATEQ Corp. **Booth 444**

35980 Industrial Rd.
Livonia, MI 48150
734-838-3100
www.atequsa.com

ATEQ manufactures fast and accurate leak and flow testing instruments for quality testing applications in every manufacturing industry. These high-quality, compact instruments are customized for each application to make sure it meets the designated leak rate specifications. While ATEQ specializes in differential pressure-decay leak testing instruments, other types of testing technologies are also available, such as electrical and tracer gas leak testing along with continuous, mass and laminar flow testing.



ATI Industrial Automation **Booth 513**

1031 Goodworth Dr.
Apex, NC 27539
919-772-0115
www.ati-ia.com

ATI Industrial Automation is the world-leading, engineering-based developer of robotic accessories and robot arm tooling, including automatic tool changers, multi-axis force and torque sensing systems, utility couplers, robotic deburring tools, robotic collision sensors, manual tool changers, and compliance devices. Our robot end-effector products are found in thousands of successful applications around the world. Since 1989, our team of mechanical, electrical, and software engineers has been developing cost-effective, state-of-the-art end-effector products and solutions that improve robotic productivity.



Auer Signal

Auer Signal / Sprecher + Schuh **Booth 2042**

15910 International Plaza Dr.
Houston, TX 77032
877-721-5913
www.sprecherschuh.com/signaling

Auer Signal offers a wide variety of tower lights, beacons, horns, alarms, telephones and explosion-proof signaling devices. This complete line of signaling devices combines performance and reliability that are well-proven and used the world over. Sprecher + Schuh is the exclusive distributing partner of Auer Signal products in Canada and the USA.

Automated Drive and Design LLC **Booth 1414**

6350 Inwood Dr.
Columbus, IN 47201
812-342-0809
www.adandd.com

Manufacturer of spherical products among other things. Our product line consists of mounting solutions for industrial devices, such as cameras, sensors, HMIs, lighting and any peripheral equipment that must be frequently repositioned.

BALLUFF

Balluff Inc. **Booth 1105**

8125 Holton Dr.
Florence, KY 41042
859-727-2200
www.balluff.com

Everyday, Balluff products are increasing production throughput and product quality in hundreds of industries all over the world, improving manufacturing processes. We are one of the world's leading sensor manufacturers, providing innovative and practical sensing solutions for a wide range of applications and industries. We offer rugged and reliable products and support, along with unique capabilities that will make

an impact on your bottom line as well as your production line.

BalTec

Baltec Corp. **Booth 731**

121 Hillpointe Dr., Suite 900
Canonsburg, PA 15317
724-416-7587
www.balteccorporation.com

With over 45,000 riveting machines installed worldwide, Baltec is the global solutions provider for riveting equipment. At this year's Assembly Show, Baltec will be featuring a full range of products for any application. Highlighted by the new ER series of electrical riveters along with the HPP-25 process controller available on all Baltec riveters, Baltec is continuing to set new standards in riveting applications, process monitoring and control.



Banner Engineering Corp. **Booth 131**

9714 10th Ave. N.
Minneapolis, MN 55441
763-544-3164
www.bannerengineering.com

Banner Engineering is a global company and a globally recognized leader in the field of industrial automation. Banner sensors and vision sensors, LED lights and indicators, wireless and safety products are used by companies large and small, from industry leaders in the Fortune 500 to innovators just entering the market.

Bielomatik **Booth 1748**

55397 Lyon Industrial Dr.
New Hudson, MI 48165
248-446-9910
www.bielomatik.us

Bielomatik is a global company providing plastic automation and welding solutions to all industries for over 60 years. We offer engineering solutions and create value for our customers by manufacturing and

assembling complex plastic welding machines for their production needs.

Binder USA Booth 1812

3903 Calle Tecate
Camarillo, CA 93012
805-437-9925
www.binder-connector.us

Binder USA is a subsidiary of Franz Binder GmbH and Co., a family-owned enterprise and one of the market leaders in the area of circular connectors. For over 55 years, Binder has been a technical leader and innovator serving the automation and medical industries. A combined total of 1,400 employees work at our headquarters in Neckarsulm, Germany, and subsidiaries in the United States, Singapore, China, Sweden, France, England and the Netherlands.

Bishamon Industries Booth 745

5651 E. Francis St.
Ontario, CA 91761
800-358-8833
www.bishamon.com

Material handling and work-positioning equipment. Manufacturers of work-positioning equipment to improve productivity and ergonomics for the operator.

Rexroth Bosch Group

Bosch Rexroth Corp. Booth 431

14001 S. Lakes Dr.
Charlotte, NC 28273
800-739-7684
www.boschrexroth-us.com

Connect with our latest technology and product demonstrations and review your technical questions with

our experts in Booth 431. Exhibits will highlight the latest in connected automation, including a new Open Mechatronics Demo that utilizes Open Core Engineering to control a multi-axis Cartesian system; ActiveMover, the new standard in high-speed, precision conveyors; TSplus and VarioFlow plus conveyor systems; CKL linear motor actuator for superfast pick-and-place; high-precision tightening systems; the new Active Cockpit production floor data visualization system; and more. Bosch Rexroth is your one stop for solutions in connected automation everywhere in your plant.

Bossard North America Booth 1848

6521 Production Dr.
Cedar Falls, IA 50613
319-277-5520
www.bossard.com

Bossard is an international engineering and logistics services company that specializes in supplying you with the correct fasteners for your applications

Hands-Free Dispensing

Our JR-V dispensing robot is a great way to stop dispensing by hand in your facility. Simplified configuration and discrete I/O means connecting your existing dispenser can be done easily. Lay down better beads and waste less material with this upgrade to your process. Purge button keeps your material ready between cycles. Share teaching data via the serial port to your PC.

Janome offer this system as an entry-point to robotic automation. Consider the JR-V, available in several sizes, for your next project.

Let your lines start and end smoothly with Janome!

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- 3-Axis Movement
- Optional Needle Adjuster
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contact
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THE ASSEMBLY SHOW CHARTER EXHIBITOR **BOOTH #913**

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JANOME

Janome Industrial Equipment USA, Inc.
751 Landmeier Road Elk Grove, IL. 60007
Phone: 847-357-8870 | Fax: 847-357-8890
www.janome-ie.com sales@janome-ie.com

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EXHIBITOR LISTINGS

in your products. Bossard's employees encompass proven productivity in their work, ensuring our customers receive the highest quality in their products and services. Bossard's three-tier concept of product solutions, application engineering, and smart factory logistics provide you with comprehensive support everywhere and locally. Bossard's goal is to help you reduce your hidden costs in fasteners and implement lean manufacturing to save you time and money.

BRANSON

makes it possible

Branson Booth 821

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Danbury, CT 06810
203-796-0400
www.BransonUltrasonic.com

Emerson leads the global assembly technology market by offering the Branson brand of material joining and precision cleaning systems. We offer ultrasonic; laser; vibration; hot plate; spin; infrared; thermal; and metal welding equipment. The breadth of Branson allows for a process-neutral approach to application development that ensures customers receive the best solution to address product specifications, regulatory and budgetary needs, while providing competitive advantages in product design, development and robust manufacturing solutions for benchtop or automated processes. Part of Emerson since 1984, the Branson brand is now aligned with Automation Solutions, committed to providing customers with solutions to meet today's challenging marketplace.

Built Systems Booth 919

11511 James St.
Holland, MI 49424
616-795-4569
www.builtsystems.net

At Built, we are all about better. Better inspires custom height-adjustable ergonomic solutions suited for your company's manufacturing needs. Better means tools equipped to hold the really heavy stuff without shifting or giving out. Better means modular

equipment ready to reuse time and again. Better means fully modular designs for higher cost-efficiency and quick adjustments out on the floor. Better isn't just about product, it is also about people producing products that give them a healthier way to work. Here, better is how we do everything. This is Built custom height-adjustable solutions for the manufacturing environment.

C Tek Lean Solutions Booth 1211

18530 Starcreek Dr.
Cornelius, NC 28031
704-895-0090
www.ctekind.com

C Tek Lean Solutions has for 20 years been providing our customers with lean solutions in kaizen, 5S and many of other continuous improvement programs with the EZ Build Lean Pipe and Connector System for building workstations, flow racks, kitting carts, towable carts, 5S boards and many other continuous improvement projects. As one of our main product lines, EZ Build is a 28-millimeter steel ABS resin-coated modular building system that is compatible with other products based on a 28-millimeter OD pipe available in 1 millimeter and 2 millimeter thickness. It is very robust and can provide you with substantial savings in excess of 25 percent for most components compared to other 28-millimeter systems. It is available for standard and static-dissipative applications.

C&M Robotics Co. Ltd. Booth 1100

A-601, 168 Gasan Digital 1-Ro
Geumchen Gu
Seoul, 08507
South Korea
646-745-6340 (USA)
www.cnmrobotics.com

C&M Robotics manufactures the Center Master, which automatically compensates for eccentric errors during insertion assembly. An AC servo press, the FlexPress provides outstanding performance for precise press-fit and delicate assembly. The IGI Plus graphic indicator allows for systematic quality control through the precise identification and resolution of nonconformity. Using our products in automated production lines will enhance productivity and cost savings.

Cameron Manufacturing and Design Booth 2114

727 Blostein Blvd.
Horseheads, NY 14845
607-739-3606
www.camfab.com

Robotics, automation, custom machinery, fabrication, sheet metal, ASME code welding, control panels, machining, engineering, design and analysis, project management, ITAR-registered.

Casco Manufacturing Booth 1543

600 Territorial Dr., Unit C
Bolingbrook, IL 60440
630-771-9555
www.cascomanufacturing.com

Manufacturer of custom cable assemblies and wire harnesses. Coax, RS232/D-Sub, industrial cables, power cables, ground straps, ribbon, solder connections and dipping. Custom bundling, labeling, kitting and packaging. ISO 9001:2008 certified.

Chongqing North Enterprise Co. Ltd.

Booth 1101

Room 1605, CITIC Bank Building
Hong Qi He Gou, Ji
Chongqing, 404100
China
86-236-763-5599
www.impactsocket.com.cn

Normeco might be the best manufacturer of impact sockets in China. We not only supply to the most famous automotive assembly plants in China, including GM, Toyota, Honda, Ford, VW and Volvo, but we also cooperate with overseas partners in promoting our products around the world.



C Cincinnati Test Systems Booth 639

10100 Progress Way
Harrison, OH 45030
513-367-6699
www.cincinnati-test.com

Cincinnati Test Systems is a world-

leading designer and manufacturer of standard and custom leak test systems and leak detection equipment. Leak testing is critical to ensuring proper product quality, safety and performance. There are numerous reliable leak test methods, each with unique characteristics that make it favorable for specific applications.

CIRRIS

Cirris Systems Booth 343

401 North 5600 West
Salt Lake City, UT 84116
801-973-4600
www.cirris.com

Cirris Systems is a world leader in electrical test equipment. We manufacture a range of testers, software, adapters, and other tools to test wires, cables and harnesses. Our reach has extended beyond

headquarters in Salt Lake City to sister divisions in China and Germany, including distributors or representatives in over 20 countries. We have placed 35,000 testers in the hands of over 7,000 customers on all seven continents. As an employee stock ownership plan company, employees at Cirris share responsibilities and benefits. Every employee-owner at Cirris focuses on promoting quality products and providing a gratifying customer experience.



Columbia Marking Tools Booth 1141

27430 Luckino Dr.
Chesterfield, MI 48047
586-949-8400
www.columbiامت.com

Helping you make your mark.

Columbia Marking Tools provides a wide range of tools and machines to mark products.



Comau LLC Booth 1849

21000 Telegraph Rd.
Southfield, MI 48033
248-353-8888
www.comau.com

Comau, a member of the FCA Group, is a worldwide leader in delivering advanced industrial automation solutions that integrate products, technologies and services to help companies of all sizes increase plant efficiency while lowering operating costs and optimizing returns. For over 40 years, Comau has been driving the future of production automation by engineering lean and sustainable solutions and products.



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Its comprehensive offering includes manufacturing and assembly solutions, powertrain machining, robotics and asset maintenance services for a wide range of industrial sectors. Comau unites talent, passion and experience to define new trends in automation.

Contrinex Inc. **Booth 1705**

1421 Champion Dr., Suite 308
Carrollton, TX 75006
866-289-2899
www.contrinex.com

Contrinex is a global manufacturer of inductive and photoelectric sensors, RFID systems and safety light curtains. The company is a technology leader in the field of intelligent sensing and identification solutions for factory automation, including the harshest operating conditions and most extreme space limitations. Contrinex is leading in position sensors for Industry 4.0 applications.

Control Micro Systems Inc. **Booth 801**

4420A Metric Dr.
Winter Park, FL 32792
407-679-9716
www.cmslaser.com

Control Micro Systems Inc. is a leading source of turnkey laser systems with more than 30 years of experience providing laser machine tools to manufacturing industries. CMS offers systems for product marking, engraving, cutting, scribing, clear-on-clear plastic welding, laser drilling and marking of pharmaceutical tablets, the manufacture of endoscopic products; and laser wire marking and stripping. A laser system integrator, CMS maintains a state-of-the-art applications development lab, maintaining a broad range of laser technologies for practically any industrial application.

Controlled Dynamics **Booth 1631**

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Grafton, WI 53024
262-421-8867
www.controlleddynamics.com

Controlled Dynamics supplies modular structural aluminum framing that are an evolutionary leap! Controlled

Dynamics was formed with the primary goal of engineering a structural aluminum framing system that eliminates the need for repetitive realignment of assemblies and retightening of fasteners commonly experienced with traditional T-slot systems—especially when subjected to dynamic environments.

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Novi, MI 48375
248-488-2580
www.cosmosolutions.us

For over 55 years, Cosmo has been providing air leak test and air flow test instruments to manufacturing facilities around the world. Cosmo equipment is known for its reliability, repeatability, accuracy, speed and cost effectiveness. Our current generation LS-R900 differential pressure decay air leak testers, as well as our AF-R220 laminar or mass-flow based flow testers, are intuitive and user friendly. Our customer base continues to grow as our products continue to meet and exceed customer expectations. We will be providing product demonstrations at our booth.



Coval Vacuum Technology Inc. **Booth 1500**

901-100 Jones Franklin Rd.
Raleigh, NC 27606
919-233-4855
www.coval-inc.com

Coval Vacuum Technology specializes in the manufacturing and distribution of vacuum components for the automation industry worldwide. With more than 30 years experience, Coval is a force for permanent innovation in the field of vacuum technology (suction cups, vacuum pumps, vacuum switches, spring compensators, peripheral devices).



Crane Electronics Inc. **Booth 1518**

1260 11th St. W.
Milan, IL 61264
309-787-1263
www.cran-electronics.com

Crane Electronics has been delivering solutions for torque management and control problems for over 45 years. Our knowledge and expertise satisfies the needs of the manufacturing industry for improved quality, safety, complete traceability and increased productivity. We work alongside some of the world's biggest brands across a variety of industries including automotive, aerospace, construction, marine and manufacturing. Our product range covers wrenches, transducers, data collectors, torque testers and system software enabling tool auditing, process capability assessment and process verification. We have an accredited service and calibration center, where we provide expert technical advice, high-quality support and dedicated customer service.



Creform Corp. **Booth 831**

1628 Poplar Dr. Extension
Greer, SC 29651
864-989-1700
www.creform.com

Creform pipe-and-joint material handling system and automatic guided vehicle systems. Common structures include flow racks, workstations, stands, racks, display boards, information stations, carts and AGVs. Creform is commonly used as a tool to support lean manufacturing, kaizen, continuous improvement, and 5S programs, since structures can be easily reconfigured and recycled to meet changing needs. More than 700 components are available, including plastic-coated steel pipes, fittings and accessories. Structures are quickly designed and assembled. With

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**Curtiss-Wright/Exlar
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Booth 1515**

18400 W. 77th St.
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952-500-6259
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 **dalmeccan**
Industrial Manipulators

**Dalmeccan Inc.
Booth 1646**

469 Fox Ct.
Bloomington, IL 60126
630-307-8426
www.dalmeccan-na.com

Supply pneumatic industrial manipulators for material handling, positioning and manipulating product. Used for picking parts and orienting them to place into an assembly.

**Daniels Manufacturing
Corp.**

Booth 1818

526 Thorpe Rd.
Orlando, FL 32824
407-855-6161
www.dmctools.com

The world leader in tool systems and technology for the aerospace,

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**DataRealm Solutions
Booth 2112**

535 Griswold St., Suite 111
Detroit, MI 48226
313-989-4224
www.datarealminc.com

An engineering-first approach based on a decade of innovation using plant-level engineering and systems integration skills has allowed DataRealm to execute highly complex and demanding turnkey productivity solutions. DataRealm has strength at every point in the process—design, engineer, integrate, deploy and support—and has built an international reputation for exceeding expectations in demanding projects at some of the world's largest high-volume manufacturing plants. It is common for the company's credentialed engineers to take on and succeed in front-leading and challenging assignments and to produce superior results, on time and on budget.

**Deluxe Stitcher Co.
Booth 1445**

3747 N. Acorn Ln.
Franklin Park, IL 60131
847-455-4400
www.deluxestitcher.com

We are a medium-size local manufacturer producing unique fastening machines for many different applications. Our stitching equipment can join metal to metal, metal to rubber, or basically any other nonsimilar materials to each other that would be difficult to fasten any other way.

DEPRAG

**DEPRAG Inc.
Booth 1931**

640 Hembry St.
Lewisville, TX 75057
972-221-8731
www.depragusa.com

DEPRAG is an assembly equipment manufacturer with over 85 years of experience. The corporate headquarters is located in Amberg, Germany, where over 350 active staff members design, manufacture and distribute handheld air tools, feeding and assembly systems. DEPRAG's worldwide net covers over 50 countries with more than 600 employees and subsidiary locations in the USA, Czech Republic, China, France, Sweden and United Kingdom. DEPRAG stands for durability, ergonomics, precision, reliability, accuracy and global presence. The North American subsidiary, DEPRAG USA, is located outside of Dallas, providing Mexico, Canada and the continental U.S. with quality screwdriving equipment and excellent service.

 **Design Tool Inc.**
Just Add Screws **INC.**

**Design Tool Inc.
Booth 1417**

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Conover, NC 28613
828-328-6414
www.designtoolinc.com

Design Tool is the industry leader in automatic screwdriver systems for all industries! Our systems feed and drive fasteners automatically for most assembly applications using screws, bolts, nuts, pins and nails. Our product line includes handhelds, turnkey fixtured or robotic systems, screw dispensing and counting, and automatic nailers. We build on any brand of screwdrivers and our machines increase productivity 50 to 60 percent without an increase in labor. Design Tool has been in business for 30 years and has produced over 20,000 machines. Please come visit our booth for a live demonstration of our systems in action!

EXHIBITOR LISTINGS

Designetics Inc.

Booth 2138

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Holland, OH 43528
419-866-0700
www.designetics.com

With 30 years of industry experience, Designetics has designed and manufactured thousands of patented flow application systems to meet a wide range of specifications for applying primers, adhesives, sealants and other materials with varying viscosity characteristics to just about any type of surface. Because Designetics flow application systems are closed, they provide a high degree of environmental protection and chemical control, virtually eliminating noxious fumes. By addressing many of these issues, Designetics applicators save time and money by increasing productivity, worker safety, and environmental protection all while decreasing worker training, masking and cleanup.



Desoutter Industrial Tools

Booth 331

1815 Clubhouse Rd.
Rock Hill, SC 29730
877-224-7377
www.desouttertools.com

Founded in 1914 and headquartered in France, Desoutter Industrial Tools is a global leader in power tools serving a wide range of assembly and manufacturing operations, including aerospace; passenger, commercial and recreational vehicles; military transportation; construction and agricultural equipment; power equipment; light assembly and general industry. Desoutter offers a comprehensive range of solutions (tools, services and projects) to meet the specific demands of local and global customers in over 170 countries. The company designs, develops, and delivers innovative quality industrial tool solutions, including air and electric screwdrivers, advanced assembly systems, advance drilling units, torque measurement equipment, and process control solutions.



DESTACO Booth 313

691 N. Squirrel Rd., Suite 250
Auburn Hills, MI 48326
888-337-8226
www.destaco.com

DESTACO, a Dover company, is a global leader in the design and manufacture of high-performance automation, workholding and remote-handling solutions. The company serves customers in a variety of end-markets, including the automotive, life sciences, consumer goods, packaging, aerospace and nuclear sectors. Built on a legacy of more than 100 years, DESTACO offers a comprehensive portfolio of products designed to engineer precise movement, placement and control solutions that drive productivity and uptime for manufacturers around the world. The DESTACO family of products consists of industry-leading brands such as DESTACO manual and power clamps, end effectors, CAMCO and Ferguson indexers, Robohand grippers and CRL manipulators and transfer ports.

Diakont Booth 1816

3853 Calla Fortunada
San Diego, CA 92123
858-551-5551
www.diakont.com

Diakont is a global leader in providing advanced motion control solutions for the power and utilities, aviation, automotive, and manufacturing industries. Diakont is proud to deliver peerless precision, service life, and reliability in its comprehensive line of electromechanical actuators, providing the consistent force and rugged durability needed in a diverse range of real-world industrial applications. With 20 years of experience in developing and manufacturing advanced actuators, Diakont has an impressive track record for incorporating innovative technologies such as optimized roller screw thread design, plasma-nitriding hardening processes, and a patented relubrication port that simplifies routine maintenance and reduces equipment downtime.

Doerfer Companies

Booth 813

1520 Elm Hill Pike
Nashville, TN 37210
615-361-4111
www.doerfer.com

Doerfer Companies is a leading global provider of engineering and manufacturing solutions for our customers, focusing on custom assembly automation, process automation, material handling, robotics, process development, and contract equipment manufacturing. Doerfer is differentiated by its proven ability to develop unique process technologies and to produce state-of-the-art hardware, software, controls and information tracking solutions for clients who perceive their needs to be difficult or "impossible." Doerfer's engineering, assembly and manufacturing facilities showcase a strong global footprint, boasting over 1 million square feet and 1,000 employees.

DOPAG US Ltd. Booth 1600

1445 Jamike Dr., Suite 100
Erlanger, KY 41018
859-918-5688
www.dopag.com

DOPAG is one of the leading manufacturers of metering and mixing systems worldwide. With 10 foreign subsidiaries as well as different distributors, we are represented in more than 30 countries. Our wide range of products reaches from metering components for automotive suppliers to innovative solutions for the aerospace industry.

Dozuki Booth 347

1880 Santa Barbara Rd., Suite 240
San Luis Obispo, CA 93401
760-707-8700
www.dozuki.com

Dozuki is a provider of documentation software to help companies create and distribute visual work instructions, training documents and technical writing resources. We've helped our users reduce employee training time by up to 90 percent after switching from their outdated system of Word documents. Features include templates, version control, photo and video support, data capture, annotations, secure encryption, flexible API, and more.

NEW Tech Talk Sessions

LOCATION: Booth #2423

At ASSEMBLY, we know that one of the top reasons you attend trade shows is for the opportunity to network with your peers. That's why we are pleased to announce something new: "Tech Talk" sessions.

Tech Talks—held right on the show floor in booth 2423—are intended to provide an opportunity for manufacturing professionals to share solutions to common problems in product assembly. These 20-minute sessions will be facilitated by the editors of ASSEMBLY and other manufacturing publications and organizations. No vendors, no sales pitches, no marketing hype, no bull. Just open, honest communication from one manufacturing professional to another. Been there, done that! Are you having an issue with robotics, adhesive bonding, threaded fasteners or lean manufacturing? Or maybe you've learned a thing or two in the school of hard knocks? Come with a question or share your experiences! No registration necessary.

**TECH TALK #1 | Wednesday, October 25 | 1:40 – 2:00pm****Broken Bonds — Challenges in Adhesive Bonding**

Moderator: **Susan Sutton**, Editor in Chief, Adhesives & Sealants Industry

TECH TALK #2 | Wednesday, October 25 | 2:40 – 3:00pm**My Robot Won't Do What I Say—Challenges in Robotic Assembly**

Moderator: **Jim Beretta**, President & CEO, Customer Attraction

TECH TALK #3 | Thursday, October 26 | 11:00 – 11:20am**We're Screwed — Challenges With Threaded Fasteners**

Moderator: **John Sprovieri**, Editor in Chief, ASSEMBLY Magazine

TECH TALK #4 | Thursday, October 26 | 1:00 – 1:20pm**Our Kanban Canned — Challenges With Lean Manufacturing**

Moderator: **Austin Weber**, Senior Editor, ASSEMBLY Magazine

For complete agenda and descriptions visit
THEASSEMBLYSHOW.COM

EXHIBITOR LISTINGS

DPSS Lasers Inc.

Booth 1244

2525 Walsh Ave.
Santa Clara, CA 95051
408-988-4300
www.dpss-lasers.com
DPSS Lasers specializes in low-cost DPSS UV "quasi-CW" lasers and UV laser markers that are ideal for marking and engraving materials, such as plastic and metals. UV lasers are especially well-suited for packaging applications because they utilize photoablation or photochemical response rather than thermal ablation, which can damage many materials. High speed, large work area and very small spot size are additional benefits of UV lasers.

Druseidt Elektrotechnik— Intercon

Booth 1444

1125 Fir Ave.
Blaine, WA 98230
800-665-6655
www.intercon1978.com

Intercon is the North American distributor for Druseidt electrical products from Germany. Extreme flexibility, high-current cables, braided shunts, multilaminar shunts and Flex-E-Bars are just a few of the specialty items they manufacture for all OEMs and electrical and power distribution equipment.

Dukane Booth 1617

2900 Dukane Dr.
St. Charles, IL 60174
630-797-4900
www.dukane.com/us

Dukane designs and manufactures plastic welding systems for different manufacturing industries around the world. Known as an "industry-first" company for offering innovative plastic joining technology, we accept each project as an opportunity to develop solutions that fit the customer's assembly requirements. Backed by many patents, Dukane's welding systems give unmatched repeatability, reliability and control

to welding process. Our standard products are ultrasonic, vibration, hot plate, infrared, spin and laser welding systems. Our iQ servo-driven ultrasonic welding system with patented Melt-Match technology is proven to provide hermetic seal, repeatable process control, and drastically reduces scrap rate for our customers.



ECC Booth 345

5905 Green Pointe Dr., Suite G
Groveport, OH 43125
614-409-9104
www.eccco.com
Manufacturer of electrical functional test fixtures for seat assemblies, dash assemblies, headliners, front and rear end fascia, engine, window and sunroofs. Manufacturer of basic continuity test fixtures for wire harness building and testing.

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eci SpinnOmatic Booth 1305

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586-752-9100
www.ecispinnomatic.com

Eci SpinnOmatic is dominating the market with custom orbital forming machinery. With in-house design, manufacturing and assembly, the entire project can go from concept to run-off in one easy step. Eci SpinnOmatic is the only authorized SpinnOmatic spare parts distributor, with an extensive inventory. Changing the face of the industry to reflect eci quality standards and emphasizing customer satisfaction are our primary goals for 2017-2018. The team at eci SpinnOmatic is ready to assist you in any way possible and would appreciate the opportunity to work with you on all your orbital forming needs.

Eco-Latch Systems LLC Booth 1749

W225 N4014 Duplainville Rd.
Pewaukee, WI 53072
920-541-3404
www.boxlatch.com

Box Latch Products (BLP) are a reusable alternative to tape, staples and bands that have traditionally been used to close cardboard boxes. BLPs are an easy to use, cost effective and environmentally responsible alternative to tape. They are a convenient closing system for corrugated boxes and cartons, ideal for B2B and or closed-loop systems. Businesses are able to reduce material costs (corrugated box and tape expenses) by anywhere from 10 percent to 90 percent following integration of Box Latch Products into their supply chains.

Edgewater Automation Booth 645

481 Renaissance Dr.
St. Joseph, MI 49085
269-983-1300
www.edgewaterautomation.com

Founded in 2001, Edgewater Automation designs and builds custom automation equipment for a wide variety of industries. Edgewater Automation has locations in St. Joseph, MI, and Spartanburg, SC, where engineering, machining and building all takes place. Featured four times on the Inc. 5,000 list of fastest-growing companies in America, Edgewater Automation is constantly improving and growing in talent, experience and technology.

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eFlex Systems

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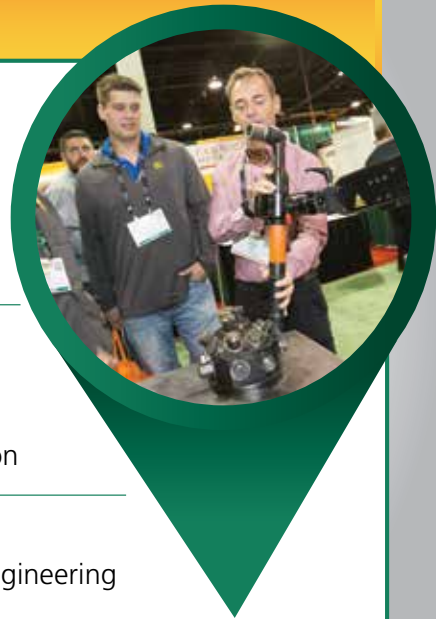
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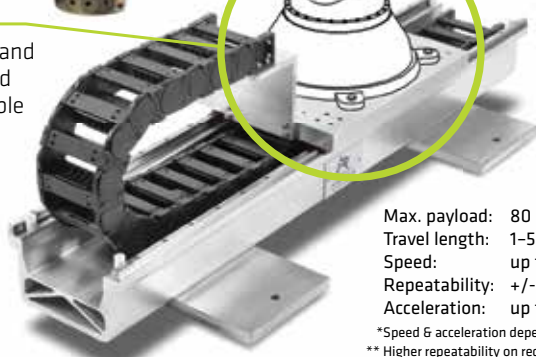
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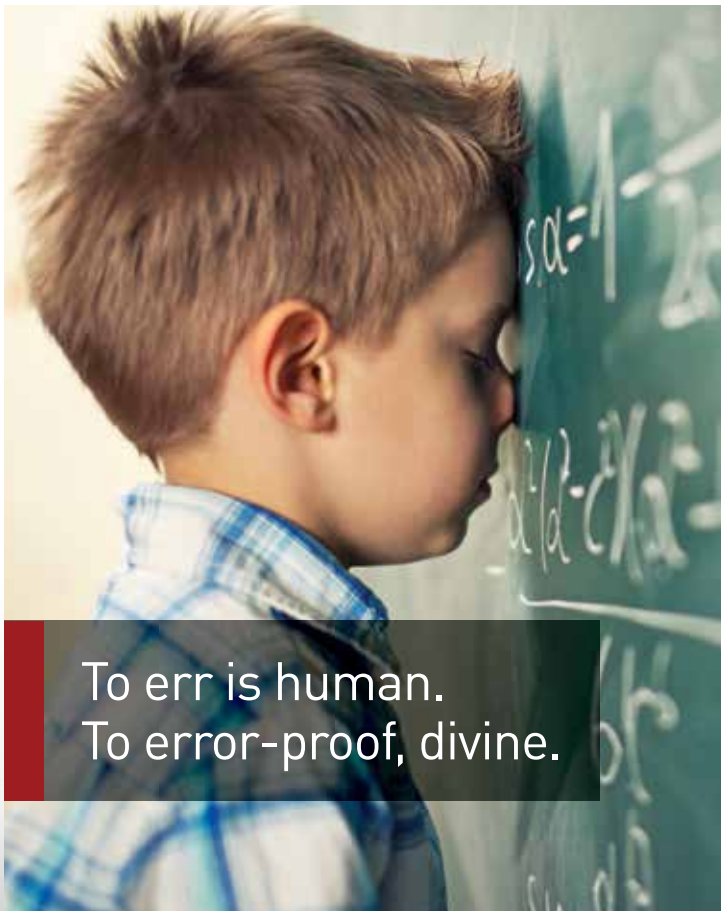
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Glide-Line offers the most versatile multi-strand panel or pallet conveyor handling solutions available for the assembly automation industry. Our Solidworks-based advanced configuration tool, called Impact, will enhance your design experience allowing you to configure the Glide-Line product exactly as you need. Our digital manufacturing process allows for your specific configuration to be built quickly and efficiently, allowing you to meet your project's tight deadlines. We will ship configured conveyor systems assembled to your facility in as little as two weeks.

Graphic Products Booth 1441

9825 S.W. Sunshine Ct.
Beaverton, OR 97005
503-469-3078
www.graphicproducts.com

Established in 1970, Graphic Products, home of DuraLabel brand of printer systems and supplies, is a global leader in solutions for safety and visual communications in the workplace.

GuangDong LiYuanHeng Intelligent Automation Booth 1605

Ma An Town, HuiCheng District
Hui Zhou, 516057
China
973-960-1738
www.lyric-robot.com

Guangdong Lyric Robot Intelligent Equipment Co. Ltd. is a national high-tech enterprise. It governs Huizhou Lyric Robot Precision Automation Co. Ltd., Bo Luo Lyric Technology Co. Ltd.



Kyle Huebner
Manager of Manufacturing Automation
Plexus

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and Suo Wo Technology Co. Ltd., and established an overseas R&D center in Switzerland. The company specializes in customization, research and development of high-end automation equipment, the overall integration of factory automation, and industrial robot system applications.

Hamilton Caster Booth 545

1637 Dixie Highway
Hamilton, OH 45011
513-863-3300
www.HamiltonCaster.com

Founded in 1907, Hamilton Caster is an industry leader in designing and manufacturing heavy duty industrial casters, wheels, carts and trailers for the automotive industry. Hamilton specializes in the custom design and manufacturing of large-capacity casters ranging from 1,000 to 43,000 pounds and industrial trailers ranging from 2000 to 100,000 pounds. Hamilton will be featuring their HPI

swivel technology that outperforms conventional CNC-machined ball raceways and more than doubles the number of bearing contact points. The raceways are also 45 percent harder than conventional hardened raceways and the surface finish is an incredibly smooth 16 micro inches.

HBM Test and Measurement Booth 1415

19 Bartlett St.
Marlborough, MA 01752
508-624-4500
www.hbm.com

HBM Test and Measurement offers high-accuracy standard and custom sensors and transducers, data acquisition systems, digital and analog load cells, load pins, strain gauges, torque sensors, amplifiers, indicators, controls and software for use in automated process control, high-speed dynamic weighing such as conveyor weighing, check weighing, batching, filling, packaging and scale

applications. Software enables setup, calibration, fast Fourier transform, run, optimize and control. HBM offers custom-designed solutions with manufacturing in the United States, Germany and China.

Heigl Technologies Booth 1720

7667 Cahill Rd., Suite 100
Edina, MN 55439
952-943-1441
www.heigltech.com

Heigl Technologies is a full-line distributor and packager of adhesives, sealants, coatings and dispensing equipment. Primary products include hot-melt adhesives and equipment, instant adhesives, epoxies, urethanes, silicones and UV adhesives and lights.

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1261 Hardt Circle
Bartlett, IL 60103
630-626-1626
www.herrmannultrasonics.com

Herrmann Ultrasonics is a world-leading company in the field of ultrasonic welding. For our customers, we assume both the role of consultant and application solution provider with regard to ultrasonic plastics joining technology. The company works closely with machine integrators providing local technical support and development lab capabilities. During the show, Herrmann Ultrasonics will demonstrate the Ultraplast AMG product line. This innovation is targeted toward custom machine builders and, in particular, large multi-head ultrasonic welding systems. The Ultraplast AMG meets the advanced requirements for Industry 4.0 connectivity with a variety of interfaces for secure communication and is network-ready.

Hisco **Booth 1941**

6650 Concord Park Dr.
Houston, TX 77040
713-934-1700
www.hisco.com

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HIWIN Corp. **Booth 1831**

12455 Jim Dhamer Dr.
Huntley, IL 60142
847-827-2270
www.hiwin.com

HIWIN Corp. manufactures an extensive line of both linear motion components and complete solutions. With a goal of supplying superior quality at the most competitive prices, the company offers a variety of precision ground and rolled ballscrews, linear guideways, electric actuators, ballscrew-driven stages, and linear motors, with many fully integrated value-added features.

H-Locker Components Inc. **Booth 1846**

No.112, Lane 2, Sec.2,
An Chung Rd.
Tainan City, 70953
Taiwan
886-6-2450906
www.hlocker.com.tw

H-Locker specializes in CNC screw machined parts and assembly parts. From CNC screw machining, plastic to rubber, we offer parts that can be made with cold forging, hot forging, stamping, die casting and other procedures for industrial and automobile markets. Qualified with the ISO 9001: 2015, ISO/IEC 17025: 2005. We have factories in Taiwan equipped with CNC machining centers and multi-spindle equipment for achieving strict and high-quality parts.

Homer City Automation **Booth 1437**

57 Cooper Ave.
Homer City, PA 15748
724-479-4673

www.homercityautomation.com

Homer City Automation is the exclusive manufacturer of Synttron parts handling equipment and Champion Drive's bulk material handling equipment. Our products include vibratory bowl feeders, rotary and centrifugal feeders, linear feeders, supply hoppers, and much more. HCA also has full job shop capabilities, specializing in fabricated metal products for food processing applications.

Hoosier Feeder Co. Inc. **Booth 1638**

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765-445-3333
www.hoosierfeedercompany.com

We are a family-oriented business with years of experience providing trusted and reliable solutions. We specialize in producing reliable and highly efficient equipment that orients parts, including vibratory feeders and centrifugal feeder systems.

Hyla Soft **Booth 1641**

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Chicago, IL 60603
312-402-4673
www.hylasoft.com

Hyla Soft is a global company that provides technology solutions to improve productivity and efficiency within manufacturing engineering, manufacturing operations, and sales and operations planning processes.



Hy-Tech Engineered Solutions

Booth 1438
25 Leonberg Rd.
Cranberry Township, PA 16066
724-776-6800
www.hy-techinc.com

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www.intelligentactuator.com

IAI manufactures the electric Elecylinder and ROBO Cylinder—smart, efficient alternatives to pneumatic cylinders. The company also offers wrist units, tabletop robots, high-speed SCARA robots, and Cartesian robotic positioning systems that can be used in a wide variety of applications requiring linear or rotational positioning.

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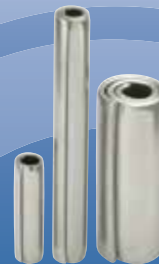
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www.ipgbiz.com

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of combined experience in this industry allows us to continue to grow and manufacture solutions for your needs. We manufacture a large variety of high-quality timing pulleys. We stock and engineer, design and manufacture custom timing pulleys for OEM manufacturers. Additionally, IPG manufactures made-to-order commercial grade spur gears for OEM manufacturers. As of April 2016, we became ISO 9001:2008 certified.

Imada Inc. **Booth 1547**

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847-562-0834
www.imada.com

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www.inficon.com

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InterTech Development Co. Booth 642

7401 N. Linder Ave.
Skokie, IL 60077
847-679-3377
www.intertechdevelopment.com
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leader in test-centric assembly and test technology, specializing in automated leak and functional testing with seven patented mass flow and hydraulic technologies as well as proven expertise in helium mass spectrometry.

Invaware Corporation Booth 2047

55 Samnah Crescent
Ingersoll, ON N5C 3J7
Canada
519-485-8524
www.invaware.com

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Invotec Engineering Inc. Booth 1111

10909 Industry Ln.
Miamisburg, OH 45342
937-886-3232
www.invotec.com

Invotec Engineering was started by two engineers with a common goal: solving manufacturing challenges with innovative solutions. Today, Invotec has over 80 employees dedicated to that mission. We build complex assembly, test and inspection equipment for customers in highly regulated industries. We specialize in applications with small- to medium-sized products or components, and our flexible approach allows customers to refine their product design while we engineer the equipment. Our technical solutions include complex assembly equipment, controls engineering, error proofing, machine vision systems, mechanical assembly systems, micro laser processing, precision joining, and test systems.



IPR Robotics LLC Booth 541

2673 American Dr.
Troy, MI 48083
248-591-3881
www.iprrobotics.com

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IPTe Booth 2031

5935 Shiloh Rd. E., Suite 100
Alpharetta, GA 30005
678-807-0067
www.ipte.com

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IST America Booth 1601

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815-733-5345
www.ist-uv.com

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Booth 1115

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Madison, WI 53718
608-222-9000
www.isthmuseng.com

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703-269-7285
www.kama.com.tr

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Kilews West USA Inc. Booth 1623

6945 LTC Parkway
Port Saint Lucie, FL 34986
772-293-0071
www.kilewest.com

Kilews West USA was established in cooperation with Kilews Industrial Co. Ltd. of Taiwan, the global head office and main manufacturing location for Kilews electric screwdrivers and accessories. In January 2015, Kilews West USA opened its doors and commenced assembly and sales of Kilews brushless electric screwdrivers

to the North and South American markets. Kilews Industrial is one of the largest manufacturers of low-torque, shut-off clutch electric screwdrivers in the world. Kilews Industrial markets product globally under the Kilews brand, as well as manufacturing private-labeled electric screwdrivers and accessories for several other prominent brands in the power tool business.

King's Solution Corp. Booth 1649

No.457, Nanshang Rd.,
Guishan District
Taoyuan City, 33392
Taiwan
886-3-3218768
www.injection.com.tw/en/index.html

King's Solution Corp. was founded in spring 2016 by King's Machinery & Engineering Corp., which has been dedicated to providing injection molding solutions for over 30 years. We have made thousands of custom injection-molding machines, including automation and turnkey solutions. Our team specializes in self-developed automation construction, pneumatic and hydraulic equipment, servo control, AOI, and industrial PC programming. We are committed to manufacturing smart machines as the front line of Industry 4.0. With reliable, sustainable innovative system applications, King's Solution is the best partner to help customers stand out as the leader in the market.



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978-390-2468
www.kokenusa.com

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KolverUSA Booth 938

8D Industrial Way, Unit 1
Salem, NH 03079
603-912-5886
www.kolverusa.com

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Holland, MI 49423
616-395-0230
www.koops.com

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www.lanco.net

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Lean Factory America

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Germany
49-81315161-0
www.marco.de

Marco has grown since 1982 from a small business to a medium-sized, internationally active group employing over 300 people. From its headquarters in Dachau, Germany, Marco operates service centres in China, Korea, Australia, Russia and Ukraine. In 1992, Marco invested in piezo technology in Hermsdorf. The manufacturing site there produces key components for durable, fast dispensing systems and ultrasound applications designed for OEM customers and the automotive industry. Marco is also a global market leader for robotic automation systems for mining machinery, based on a proprietary electrohydraulic control system suitable for harsh environments and difficult operating conditions.

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Booth 1301

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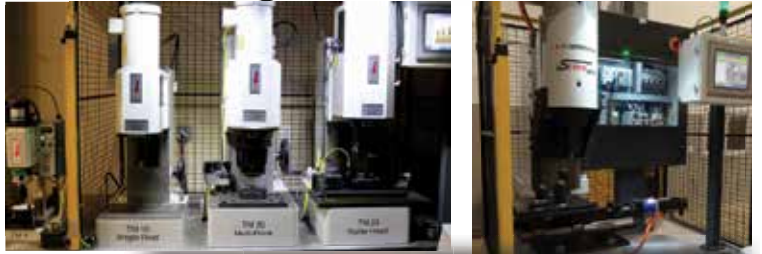
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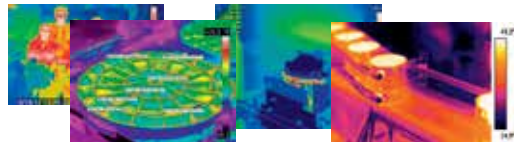
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Booth 1320

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425-844-0152
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www.rivetking.com

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603-668-8117
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Booth 840

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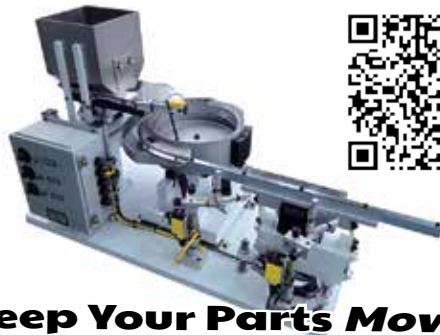
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253-329-2460
www.scout.systems

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267-436-6000
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Booth 1338

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864-433-1980
www.staubli.com

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Swanson Agile Assembly Booth 1718

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www.agileassembly.com

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Taica North America Corp. Booth 1949

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www.taica.co.jp/gel-english

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Booth 1142

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Tecnova Electronics

Booth 1343

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Booth 1512

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Livermore, CA 94551
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www.thermalpress.com

Thermal Press International (TPI) manufactures a broad product line of precision machines and automation systems for thermal assembly: heat staking, heat sealing, medical film and port welding, threaded inserts, filter membranes, and adhesive patches for wearable medical technology devices. TPI provides innovative solutions for its global partners in the medical, automotive, telecom, consumer electronics and aerospace industries. TPI delivers a full complement of engineering services to support our clients: R&D, process development, product design engineering, process optimization, initial qualifications and

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TiMOTION

Booth 1917

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Charlotte, NC 28217
704-708-6924
www.timotion.com

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TM Electronics Inc.

Booth 1746

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www.tmelectronics.com

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TM Robotics (Americas)

Booth 2045

755 Greenleaf Ave.
Elk Grove Village, IL 60007
847-709-7308
www.tmrobotics.com

TM Robotics is responsible for sales, service and support for Toshiba Machine's line of Cartesian, SCARA and six-axis industrial robots worldwide, excluding Asia. The extensive lineup includes single-axis belt and ballscrew actuators; two-, three- and four-axis Cartesian robots, 180-millimeter to 1,200-millimeter SCARA arms; and a wide variety of six-axis models. Vision offerings include 3D bin picking solutions, as well as no-cost vision-guided conveyor tracking software. Our home office includes warehousing, training, demonstration and showroom facilities near O'Hare airport.



Tolomatic Inc.
Booth 2049

3800 County Road 116
Hamel, MN 55340
763-478-8000
www.tolomatic.com

Tolomatic manufactures electric linear motion products: rodless electromechanical and electric rod actuators; servo actuators; integrated SmartActuator; ServoWeld resistance spot welding actuators; drives; motors; and configured linear motion systems. Pneumatic actuators include band, cable, and magnetically coupled cylinders and slides. Power transmission products include right-angle gearboxes, caliper brakes and clutches.

Tooling Tech Group
Booth 1243

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Fort Loramie, OH 45845
937-295-3672
www.toolingtechgroup.com

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Booth 1737

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Youngsville, NC 27596
919-561-7980
www.torqtec.net

We market products and services for addressing the productivity, quality and ergonomic concerns of the industrial manufacturing base. We offer complete lines of torque-controlled tools, power assembly

tools, pneumatic pulse tools and cordless pulse tools. Our focus is to offer high-quality, innovative solutions supported by more than 100 years of combined industry experience and customer service.

TOX® PRESSOTECHNIK

TOX-Pressotechnik LLC
Booth 239

4250 Weaver Parkway
Warrenville, IL 60555
630-447-4600
www.tox-us.com

TOX-Pressotechnik is an innovative company that builds machinery for product assembly. Our presses are powered by various methods and are used to produce anything from small electronic components to automotive and aircraft bodies. We employ many assembly technologies inside of our presses, including our own TOX joining technology, which can replace screws, rivets and spot welding for



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734-464-7430
www.trilogiqusa.com

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TSC Auto ID and Printronix Auto ID **Booth 1514**

3040 Saturn St., Suite 200
Brea, CA 92821
657-258-0808
www.tscprinters.com and
www.primtronixautoid.com

TSC and Printronix Auto ID offer an extensive line of feature-rich bar code printers, including our new ODV-2D printer and bar code validator, which is being introduced at show. The ODV-2D is the industry's first affordable, fully integrated solution with the ability to print and validate 1D and 2D bar codes. Whether it's our desktop, industrial and mobile bar code printers, or our RFID solutions, our products stand out for their user-friendly design, reliable performance and unmatched durability. We have a complete range of solutions for every application. Our excellent customer service and technical team are dedicated to helping our customers find the right printing solution.

TSS Technologies **Booth 446**

8800 Global Way
West Chester, OH 45069
513-772-7000, ext. 1139
www.tss.com

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Tulip **Booth 1937**

561 Windsor St., B402
Somerville, MA 02143
617-702-2986
www.tulip.co

Tulip, a spinout from MIT, brings the power of Industrial IoT and advanced analytics to the manufacturing workforce through its app platform. This revolutionary self-service technology fills the gap between rigid back-end manufacturing IT systems and the dynamic operations taking place on the shop floor. Tulip's Manufacturing App Platform combines research in intelligent hardware, sensors, computer vision, assistive user interfaces and applied machine learning.



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91 King St. E., Suite 123
Bowmanville, ON L1C 5E2
Canada
905-331-6808
www.watchover.us

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U.S. Tech **Booth 2337**

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610-783-6100
www.us-tech.com

U.S. Tech, an international high-tech electronics publication, reaches over 250,000 engineers, buyers, product specifiers and manufacturing and corporate managers each month online, in print and in digital formats. The newspaper focuses on new innovations in components, distribution and PCB design, manufacturing, assembly and test, as well as the business, supply chain and regulatory issues facing the electronics manufacturing and distribution sector.

Ubisense **Booth 1948**

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Denver, CO 80202
303-539-6922
www.ubisense.net

Ubisense is the world leader in location and identification enabling high-value manufacturing. Ubisense uses location data to discover relationships between products, processes and people, giving you unrivaled visibility and control of your business. Unlike traditional, fragmented data capture approaches, Ubisense consolidates information

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Methuen, MA 01844
978-686-7550
www.ulvac.com

ULVAC makes a complete line of vacuum equipment including small and large vacuum pumps of all types, HELIOT helium leak detectors, automatic leak check systems, helium recovery units, refrigerant charging systems, vacuum instruments, gauges, residual gas analyzers and thermal analysis instrumentation. ULVAC is the ULtimate in VACuum



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www.unex.com

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800-521-4757
www.unitedresin.com

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See us at The ASSEMBLY Show, Booth #1905

EXHIBITOR LISTINGS

Universal Robots

Booth 2223

5430 Data Ct., Suite 300
Ann Arbor, MI 48108
517-243-7208
www.universal-robots.com

Universal Robots has reinvented industrial robotics with lightweight and collaborative robot arms. We believe that collaborative robotic technology can be used to benefit all aspects of task-based businesses—no matter what their size. Our robot arms are advanced tools that can be used by all levels of production staff to help increase productivity, reduce injury and boost morale. With a Universal Robots robot arm, you can automate and streamline repetitive or potentially unsafe processes, so staff can be assigned to jobs that provide them with new challenges.



Uson LP

Booth 1613

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Houston, TX 77041
281-671-2000
www.uson.com

Uson is the premier provider and the industry pioneer of leak testing equipment, systems and solutions with over 50 years of experience. The automotive, industrial, medical device and packaging industries all count on Uson for creative, innovative testing to ensure they are bringing the highest quality products to market. You can too.

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Booth 1337

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800-228-2969
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Vega Tool is the exclusive importer and distributor for the Lobster brand of assembly tools. Offering a full line-up of pneumatic and battery powered rivet tools along with pneumatic rivet-nut tools, rivets and hand tools. At The ASSEMBLY Show, Lobster will introduce its first robotic riveting system and rivet feeder.

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Booth 1215

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Kennesaw, GA 30144
770-422-4281
www.viscotec-america.com

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Booth 1606

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www.visualworkplaceinc.com

Visual Workplace has been providing 5S, lean and safety products to manufacturing companies for 20 years. Our products include custom and do-it-yourself signage, dry erase boards and accessories, tool shadow boards, label printers and many other continuous improvement products. Our products focus on visual communication and visual management methods. Our goal is take the questions out of the workplace and provide critical information at the point of use. The team at Visual Workplace is committed to providing an extraordinary customer experience while delivering solutions to the communication challenges in the workplace.

VKS

Booth 1731

1241 Cascades
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Canada
855-201-4656, ext. 2712
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WEH Technologies Inc.

Booth 1241

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Katy, TX 77494
832-331-0021
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WEISS North America Inc.

Booth 217

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Willoughby, OH 44094
440-269-8031
www.weissna.com

Weiss North America is a high-quality manufacturer of cam-, servo-, and linear motor-driven automation components. The company supplies rotary index tables, palletized conveyors, linear motor-driven pick-and-place units, cam- and servo-driven assembly chassis, ring index tables, and machine bases and tool plates.

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Booth 648

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800-267-5541
www.weratools.com

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Booth 1902

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Zaxis Inc.

Booth 843

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Salt Lake City, UT 84119
801-264-1000
www.zaxisinc.com

Zaxis has applied over 25 years of leak test experience to design leak test instrumentation that is applicable to a variety of industries. Founded with the goal to provide the best value for the medical device market, our products have quickly become the industry standard for high accuracy and repeatability while maintaining value. Customer's consistently turn to Zaxis to solve their most complex seal integrity tests in high speed automated and benchtop applications.



Zeltwanger Leak Testing and Automation

Booth 1616

4947 Fargo St.
North Charleston, SC 29418
843-225-0571
www.zeltwanger.com/zeltwanger-leak-testing-automation.html

Zeltwanger Leak Testing and Automation sells innovative assembly and leak testing systems using air as the test medium. We determine the particular testing needs of our U.S. customers, develop custom plans, and provide quality solutions that use superior technology.



Zimmer Group US Inc.

Booth 1423

1095 6th St. Court S.E.
Hickory, NC 28602
828-855-9722
www.zimmer-group.com

Zimmer Group is based in Rheinau-Freistett, Germany, and is a family-owned and operated company. Today, the company is among the leading manufacturers in the automation industry, providing grippers, tool changers, crash protection, axis compensation, robot accessories and complete end-of-arm turnkey gripper systems. Our latest offerings include collaborative grippers, long-stroke grippers, three-jaw grippers, and parallel electric grippers with IO-Link capability to meet the demands of Industry 4.0 and IoT. As part of our motion control lineup, we manufacture shock absorbers, clamps and brakes for linear rail, and profile dampers.

AGCO Leads the Field With Lean Technology *Wearable devices help build better tractors in Jackson, MN*

Austin Weber

Senior Editor

webera@bnpmedia.com

Whether it's a muddy soybean field in central Illinois, a frosty vineyard in France, a steamy sugar cane plantation in Brazil or a dusty wheat field in western Canada, tractors produced by AGCO Corp. are hard at work on farms, orchards and ranches around the world.

AGCO is one of the world's largest manufacturers of agricultural equipment. The company produces several brands of high-horsepower tractors, including Challenger, Fendt, Massey Ferguson and Valtra. Two of those brands are produced at the company's state-of-the-art assembly plant in Jackson, MN.

The factory is the recipient of the 2017 Assembly Plant of the Year award sponsored by ASSEMBLY magazine. This world-class plant was chosen for the 14th annual award because of the way it has applied cutting-edge technology to build complex products better, faster and more efficiently.

During the past five years, AGCO has invested more than \$50 million in the Jackson factory to increase production capacity and efficiency. The 52-year-old plant embraces plant floor innovations ranging from automated guided carts to cordless screwdrivers.

AGCO Jackson also recently launched a wearable technology initiative that uses augmented reality tools to enable assemblers to work more productively. More than 100 pairs of Google Glass are being worn by employees for quality inspections and assembly work. And, the plant has applied cutting-edge lean manufacturing principles to boost quality and drive continuous improvement efforts.

A wide variety of machines are assembled at AGCO's 1-million-square-foot factory. The facility is home to Challenger and Massey Ferguson high-horsepower wheeled row-crop tractors, as well as articulated and tracked Challengers.

In addition to building tractors, the flexible facility assembles three- and four-wheeled applicators. The self-propelled RoGator and TerraGator vehicles are used by farmers to spread many types of dry fertilizer and liquid chemicals.



"As an industry built on technology, the Jackson plant has embraced innovation on the plant floor," says Eric Fisher, director of operations. "We have led the world in Industry 4.0 and Internet of Things solutions.

"Farmers expect the best when they purchase AGCO equipment, and we intend to beat those expectations," adds Fisher. "With the continuous improvements we're making here, we provide our dealers and farmers the highest-quality agricultural equipment available."

The Jackson facility is one of AGCO's largest plants. It also produces the product with the highest margin contribution to the North American region.

"Jackson is much more of a low-volume, high-complexity operation, having the longest and most complex supply chain within AGCO," explains Fisher. "But, what really makes it different is the culture.

"AGCO is a corporation that has grown through acquisition, so the cultures are a little different plant to plant," Fisher points out. "Workforce engagement and empowerment are strengths in Jackson."

The 2017 Assembly Plant of the Year award will be presented on Wednesday, Oct. 25, at 9 a.m., prior to the keynote address. You can see some of the products assembled at AGCO's award-winning factory in booth 1754. Also be sure to visit our Assembly Plant of the Year Wall of fame to check out the previous 13 winners. To read more about previous winners—and to apply for next year's award—visit www.assemblymag.com.

Congratulations to the **2017 PLANT OF THE YEAR** Award Winner:



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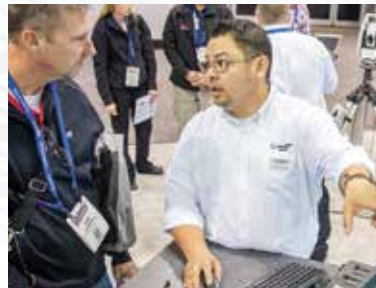
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 Wednesday, October 25 | 5:00pm – 7:00pm



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Tuesday, October 24	Wednesday, October 25
1:00pm – 7:00pm	10:00am – 5:00pm
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THE
ASSEMBLY
SHOW

SAVE **OCTOBER 23 – 25**
THE **2018** **DONALD E. STEPHENS**
DATE **CONVENTION CENTER**
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Nearly 300 exhibitors are here at the Donald A. Stephens Convention Center to display the latest in assembly machines and systems during the fifth annual ASSEMBLY Show. In the following pages, you'll find information about some of the state-of-the-art equipment and technology that will be on the show floor. Read through this showcase and challenge these suppliers to show you how their products can make your assembly operations even more competitive.

Process Monitoring System

The maXYmos TL captures, plots and analyzes the XY curves of two variables in an assembly process, such as force and distance in a press-fitting operation. XY measurements of this kind can be used to monitor the quality of an individual manufacturing step, a series of steps, or an entire product. Combined with Kistler's piezoelectric sensors, the system ensures robust and accurate measurements of process and quality data, even when ambient conditions are difficult, where installation space is limited, or if the forces are very small. An Ethernet TCP/IP network is used for transmitting measurement data, remote maintenance and channel cascading. Data can be exported in multiple formats, such as Q-DAS, XML, CSV and PDF. Optional equipment includes a display module with 10.4-inch color touch screen and front-facing USB port.



Kistler Instrument Corp. • Booth 621
www.kistler.com • 248-668-6900

Orbital Riveting

Orbital riveting and forming is a cold forming process using a peen tool held at a fixed angle to create a sweeping line of pressure around the part, progressively forming the material with each rotation. Rivets are formed using approximately 80 percent less force than when using a standard press. Orbital forming allows for the creation of articulating hinge joints. With less downforce on the rivet, there is minimal swelling of the rivet shank, allowing finished parts to articulate smoothly.



Orbitform • Booth 505
www.orbitform.com • 517-787-9447

Assembly Presses

Schmidt Technology provides a full line of press systems, including manual rack-and-pinion presses, toggle presses, pneumatic presses, hydropneumatic presses, electric presses, and fully automated servo presses. A variety of options are available to enhance control of the pressing process, including micron-level end-of-stroke adjustment; rate control; end-of-stroke sensing; interchangeable tooling; slide table, and multiple frame sizes. In addition, several options are available for press force monitoring and control. For example, the PressControl 600 dynamically monitors press force and displacement while giving the flexibility to stop the press stroke if parameters are not correct.



SCHMIDT Technology • Booth 1123
800-959-1218 • www.schmidtpresses.com

Tool Changer

The QC-160 tool changer provides flexibility to robot applications by allowing the robot to automatically change end-effectors, such as grippers, vacuum cup tooling, pneumatic and electric motors and weld guns. Like all ATI tool changers, the QC-160 features the company's patented fail-safe locking mechanism, which prevents inadvertent unlocking due to gravity, vibration, or acceleration. No-touch locking technology allows up to 0.1 inch plate separation when locking. All locking parts are made of Rc58 stainless steel. Locking force at 80 psi is 7,000 pounds. The tool changer has a static moment capacity of 24,000 inch-pounds in the XY axes and 20,000 inch-pounds in the Z axis. Long-life bushings are used for pneumatic pass-throughs. The device mounts directly to most 200-kilogram payload robots and supports the 125-millimeter ISO mounting pattern.



ATI Industrial Automation • Booth 513
919-772-0115 • www.ati-ia.com ATI Industrial

Automatic Screwdriving System

The DTI 5000 automatic inline screwdriver system is available in several different configurations, including standard, rigid, retracting barrel and counterbore tip designs. These machines are custom-designed for vertical applications with the nosepiece jaws fitting the customer's part. Inline screwdriver assemblies can be designed for a wide range of applications and fastener types, including screws, bolts, nuts, pins or nails. The standard screw feeder system cycles quickly, delivering screws in less than one second in many applications. The rigid units maintain contact between the bit and the fastener to locate the screw in predrilled or misaligned holes. The retracting barrel feature is offered in both rigid and non-rigid designs. This system retracts the barrel fully when the driver starts, so that the driver components do not contact the work surface when the screw is driven. The counterbore tip design is ideal for screws located in counterbored or recessed holes. The system is offered with an auto shut-off clutch to maintain the correct fastener torque while reducing operator fatigue due to torque reaction. These systems are also available in a drive-to-depth configuration, where the fastener is driven to a specific depth rather than a set torque value.



Design Tool Inc. • Booth 1417
www.designtoolinc.com • 800-627-3674

PRODUCT SHOWCASE

Pick-and-Place Module

The HP70 pick-and-place module achieves more than 100 cycles per minute with repeat accuracy of 0.01 millimeter. Key to the system's design is a new drive concept that works with two linear motor axes that feature a "knuckle" design on the Y-Z axes. This virtually eliminates the need for another linear motor for the Z axis. Essentially, two horizontal axes with 125-, 225-, or 325-millimeter stroke lengths are arranged in parallel above one another and then connected via a kinematic unit. This guarantees a vertical stroke of 70 millimeters. The device's two axes do not run vertically towards one another. If a unit has one horizontal axis and one vertical axis fitted next to one another, it becomes wider. However, by arranging the horizontal axes in parallel above one another a more compact unit is achieved. The device only brakes on one axis when transitioning from full-speed horizontal movement to vertical movement. The time-consuming start of a second axis is eliminated.



Weiss North America Inc. • Booth 217
www.weissna.com • 440-269-8031

Electromechanical Press

The EMAP (electromechanical assembly press) brings the same kind of closed-loop precision and repeatability to press and assembly work that CNC machine tools bring to metal-cutting operations. This capability is the result of an advanced computer system, on-board force and distance sensors, and an encoder-equipped servomotor that drives a ballscrew ram. The ram's force level and position are continuously monitored to prevent bounce and drift, while improving product quality and output. More than 30 different presses are available, with capacities ranging from less than an ounce to more than 200,000 pounds. All models are quiet, energy efficient and require little maintenance.



Promess Inc. • Booth305
www.promessinc.com • 810- 229-9334

Module Monitors Air Consumption

Manufacturers can use the upgraded MSE6-E2M module to optimize compressed air consumption of production equipment and alert plant personnel to system leaks. Consisting of a solenoid valve integrated with pressure and flow sensors, the compact module flows up to 5,000 liters of air per minute. It provides real-time values for flow rate and air consumption so operators are aware when an air leak has occurred. This data includes the amount of air consumed per product batch, and



pressure and flow at the time of a malfunction or bad product batch. The module also automatically shuts off the air supply in standby mode to reduce energy consumption. Operators can easily program the module and connect it to an MS air preparation unit.

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Direct-Acting Pneumatic Presses

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