

EVENT DIRECTORY

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A Manufacturing Technology Series Event

MAY 14–16, 2019

EASTERN STATES EXPOSITION | WEST SPRINGFIELD, MA



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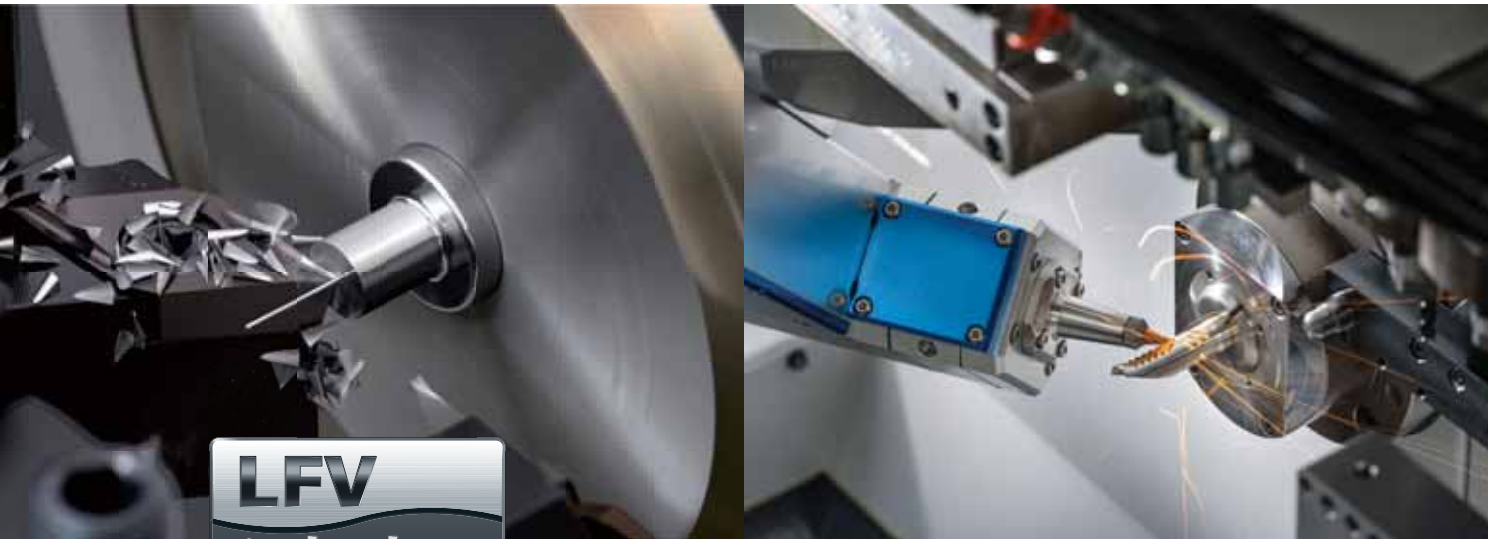
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WELCOME TO EASTEC 2019!

Now in its 36th year, EASTEC is a vital event for Northeastern manufacturers and we strive to provide an excellent ROI for exhibitors and attendees.

Spend time with us in the new **SME ZONE** in Building 1, where our speakers and presenters will break down the barriers you're facing and help you learn faster and more efficiently. They will address critical topics from the Industrial Internet of Things to cyber-security, automation and intelligent robotics, workforce development and training, and sustainability.

Take advantage of all the opportunities to see, learn and experience:

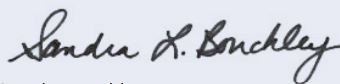
- **Opening Day Keynote: Inspiring Innovation and Sustainability with Stanley Black & Decker**—Marty Guay, vice president, Business Development, Stanley Black & Decker, will focus on Stanley Black & Decker's collaboration with startups to grow the manufacturing community.
- **Keynote Panel: Engage a Multi-General Workforce for Sustainable Manufacturing**—Manufacturers need to implement strong on-boarding and mentoring programs, along with new learning and development programs that align to each generation. This panel will explore various examples from industry and how they are meeting the challenge.
- **Smart Manufacturing Hub**—This area showcases the industry's most advanced smart technologies, including 3D printing, automation, 3D scanning, and more. Insightful technical presentations combined with resources from leading providers will bring you up to speed quickly.

Download the EASTEC mobile app, where you can access event details, receive important updates and participate in giveaways. To download the app, search for EASTEC in your mobile phone's app store.

Along with smart manufacturers like you, we will continue to advance manufacturing technology and attract future generations to our industry. We encourage you to visit sme.org and amtonline.org to learn more about how SME and AMT can be your resource.

Again, on behalf of SME and AMT, welcome to EASTEC 2019, and thank you for attending.

Sincerely,



Sandi Bouckley
Executive Director & CEO
SME



Doug Woods
President
AMT- The Association For
Manufacturing Technology

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Exposition Hours

ALL BUILDINGS

Tuesday, May 14	9:00 am – 5:00 pm
Wednesday, May 15	9:00 am – 5:00 pm
Thursday, May 16	9:00 am – 3:00 pm

Registration Hours

THE REGISTRATION BARN

Tuesday, May 14	8:00 am – 4:00 pm
Wednesday, May 15	8:00 am – 4:00 pm
Thursday, May 16	8:00 am – 2:00 pm

Registration Fees

The registration fee (*for persons not already registered*) for the EASTEC exposition is \$50 (free to SME members with a valid member card or to persons with an exhibitor guest pass). Fee is payable by cash, check or credit card in US funds. Registration begins daily at 8:00 am in the Registration Barn.

Your EASTEC show badge admits you to all four exhibit buildings, keynote presentations and the educational presentations in the Theater (located in the SME ZONE).

EASTEC is a business event. No one under 18 years of age admitted.

Information Desk Locations—“Ask Me” Stations

Get answers to your questions in the crossover between Building #1 and #2, the Registration Barn or the Show Office in Building #5.

Media Center

Located in the SME ZONE, Building 1 #1164.

SME ZONE

Located in Building #1 in Booth #1164

The SME ZONE is the nerve center of everything happening at EASTEC. Major attractions will be hosted in the SME ZONE – and while you’re there, learn how SME can help you grow your business and advance your career. SME can help you keep up with advancing technology, maintain your innovative edge, develop your workforce, help you close the skills gap, connect you with the manufacturing industry and expand your network, and much more. Manufacturing comes with challenges; SME offers solutions. When you visit the SME ZONE, you can:

- Catch all the EASTEC keynotes, panel discussions and industry experts, hosted in our theater;
- Get a sneak peak of manufacturing’s leaders and top thinkers from across every segment recording podcasts with SME Media;
- Sign up to potentially get 10 free online learning and development classes from Tooling U-SME;
- Nominate a deserving student, colleague, friend or employee for Manufacturing Engineering’s “30 Under 30” Award, which recognizes the brightest and most promising stars of our industry who are making a difference in manufacturing even from the beginning of their careers; and
- Engage with SME representatives to learn more about our organization, its mission, our education foundation, member resources, and how SME can provide you the resources you need to grow your career and grow your business.

EASTEC Mobile App

Download the EASTEC mobile app to your phone or tablet. The EASTEC app is your go-to guide for everything that’s happening at EASTEC. View the schedule, make your own personalized agenda, engage with other attendees and exhibitors, access social media, see the show floor and more.*



Free WiFi Network: BigE-Hotspot
Access Code: eastec

*SME does not guarantee continuous WiFi or cell phone service.

EASTECC Social Media

Find EASTECC on Facebook, Twitter and LinkedIn. Use #EASTECC19 to join the discussion and see what's happening throughout the event.

New Products

A number of new products are being introduced at EASTECC – technologies to help you better serve your customers and run a more competitive operation. EASTECC features nearly 50 product categories. You can find these new products listed on the website and in the EASTECC mobile app.

Important Telephone Numbers

SHOW OFFICES

Building #1 (NAC)

Phone: 413.205.5544

Building #1 (SME ZONE)

Phone: 413.205.5554

Building #5 (BLC - Better Living Center)

Phone: 413.205.5549

Concession Areas

Please note: All food vendors now accept cash or credit cards.

BUILDINGS #1 & #2 (INSIDE)

Eddie Shore Enterprises Concession & Zena's Café

Tuesday, May 14 7:00 am – 5:00 pm

Wednesday, May 15 7:00 am – 5:00 pm

Thursday, May 16 7:00 am – 3:00 pm

BUILDING #3 (INSIDE)

West Side Grille

Tuesday, May 14 7:00 am – 5:00 pm

Wednesday, May 15 7:00 am – 5:00 pm

Thursday, May 16 7:00 am – 3:00 pm

BUILDING #5 (INSIDE)

Glass House 1, 2 and Dunkin' Donuts

Tuesday, May 14 7:00 am – 5:00 pm

Wednesday, May 15 7:00 am – 5:00 pm

Thursday, May 16 7:00 am – 3:00 pm

OUTSIDE (BETWEEN BUILDINGS #3 AND #5)

Butcher Boys, NY Pizza, Crow's Nest Mexican, Soup-R-Bowl, Pig Park BBQ

Tuesday, May 14 - Thursday, May 16 11:00 am – 3:00 pm

ATMs

Building #2 Located near the restrooms between Buildings #1 and #2

Building #3 Located just inside Door 1

Building #5 Located just inside Door 6

Coat Check / Bag Drop

The Coat Check / Bag Drop is located in the Stroh Building (Building 4) in the same door as Exhibitor Services. It will be open on show days at the following times:

Tuesday, May 14 9:00 am – 5:00 pm

Wednesday, May 15 9:00 am – 5:00 pm

Thursday, May 16 9:00 am – 3:00 pm

Lost Badges

Lost show badges may be claimed or reprinted in the Registration area in the Already Registered Barn.

Lost & Found

Items turned in to Show Management can be claimed at the Security Office located in the crossover between Buildings #1 and #2 on the 2nd floor.

First Aid

Emergency care and assistance is available during show hours in Building #5 in the 500 aisle.

While You're In West Springfield ...

The Greater Springfield Convention and Visitors Bureau will be on-site at EASTEC to assist you with restaurant reservations and provide details on places to visit. Stop by the bureau's table in the Registration area (located in Registration Barn and the Already Registered Barn) to receive coupons for area restaurants and businesses, a walking map and more.

Visit explorewesternmass.com.

Complimentary Hotel Shuttle

PICKUP LOCATIONS

- Courtyard by Marriott West Springfield
- Hampton Inn West Springfield
- Hilton Garden Inn Springfield
- Holiday Inn Express Springfield Downtown
- MGM Springfield,
- Residence Inn West Springfield
- Sheraton Springfield at Monarch Place
- Tower Square Hotel Springfield

INBOUND TO EASTERN STATES EXPOSITION

Tuesday, May 14 - 7:45 am - 10:00 am (last hotel departure at 10:00 am)

Wednesday, May 15 - 7:45 am - 10:00 am (last hotel departure at 10:00 am)

Thursday, May 16 - 7:45 am - 10:00 am (last hotel departure at 10:00 am)

RETURN TO HOTELS

Tuesday, May 14 1:15 pm - 6:45 pm

Wednesday, May 15 1:15 pm - 7:30 pm

Thursday, May 16 1:15 pm - 4:00 pm

On-Site Parking Shuttle

The on-site parking shuttle will pick you up from the attendee parking area coming in gate A and take you to the entrance of the event.

Tuesday, May 14 10:00 am - 6:45 pm

Wednesday, May 15 10:00 am - 7:45 pm

Thursday, May 16 10:00 am - 4:00 pm

Program Changes Disclaimer

SME reserves the right to make last-minute speaker changes. SME is not responsible for incidental expenses incurred by registered participants.

Photography Policy

No photos without permission of the exhibitor.

Solicitation/Suitcasing Policy

Solicitation by non-exhibitors is not permitted.

Tax Deduction

An income tax deduction may be allowed for education expenses (including registration fees, travel, lodging and meals) undertaken to improve professional skills (see Treas. Reg. Sec 1.162-5).

Special Requirements



SME is committed to providing reasonable accommodation to persons with disabilities who require such accommodation in order to fully participate in SME-sponsored events. For details, contact the EASTEC Show Offices in Building #1 (413.205.5544) or Building #5 (413.205.5549).

ABOUT SME



SME connects manufacturing professionals, academia and communities, sharing knowledge and resources to build

inspired, educated and prosperous manufacturers and enterprises. With more than 85 years of experience and expertise in events, media, membership, training and development, and through an education foundation, SME is committed to promoting manufacturing technology, developing a skilled workforce and attracting future generations to advance manufacturing. Learn more at sme.org.

ABOUT AMT – THE ASSOCIATION FOR MANUFACTURING TECHNOLOGY



The Association For Manufacturing Technology (AMT) represents and promotes US-based manufacturing

technology and its members – those who design, build, sell and service the continuously evolving technology that lies at the heart of manufacturing. Founded in 1902 and based in Virginia, the association specializes in providing targeted business assistance, extensive global support, and business intelligence systems and analysis. AMT is the voice that communicates the importance of policies and programs that encourage research and innovation, and the development of educational initiatives to create tomorrow's Smartforce. AMT owns and manages IMTS, the International Manufacturing Technology Show, which is the premier manufacturing technology event in North America. For more information, visit AMTonline.org.

MANUFACTURING TECHNOLOGY SERIES



Bringing together four strategic manufacturing events – HOUSTEX, EASTEC, SOUTH-TEC and WESTEC – under one umbrella.

A NEW APPROACH. ENDLESS OPPORTUNITIES.

The Manufacturing Technology Series creates a consistent platform to ensure an unparalleled experience. The Manufacturing Technology Series brings decision makers from diverse industries together with leading suppliers of advanced manufacturing technology, equipment and tooling.

Located in key manufacturing hubs, the Manufacturing Technology Series events showcase the latest equipment and processes along with breakthrough technologies associated with artificial intelligence, 3D printing/additive manufacturing, robotics, automation, and Big Data. For more information, visit sme.org/manufacturing-technology-series.

ABOUT SME MEDIA



SME Media is a leading source for news and in-depth technical information about advanced

manufacturing in North America. It serves an audience of more than 100,000 manufacturing professionals who subscribe to its magazines, iTunes app, industry yearbooks, e-newsletters and other media products. Coverage is focused on some of the world's most critical industries: aerospace and defense, motorized vehicles, medical manufacturing and energy, including oil and gas, nuclear, electric, solar and wind.

ABOUT TOOLING U-SME



Tooling U-SME delivers versatile, competency-based learning and development solutions to the manu-

facturing community, working with thousands of companies including more than half of all Fortune 500® manufacturing companies, as well as 600 educational institutions across the country. Tooling U-SME partners with customers to build high performers who help their companies drive quality, productivity, innovation, and employee satisfaction. Working directly with hundreds of high schools, community colleges, and universities, Tooling U-SME is also able to help prepare the next generation workforce by providing industry-driven curriculum. A division of SME, an organization that connects people to manufacturing solutions, Tooling U-SME can be found at toolingu.com.

ABOUT THE SME EDUCATION FOUNDATION



The SME Education Foundation inspires, prepares and supports students in their quest for roles as engineers and

technologists in advanced manufacturing. Our unique Partnership Response In Manufacturing Education (PRIME®) initiative makes high school students across the country aware of STEM opportunities and teaches, prepares and advances their pursuit of those opportunities. That career readiness is an important step in addressing a national skills gap: 2 million jobs will go unfilled in the next decade due to an alarming lack of skilled, qualified talent. We also administer and award numerous annual scholarships to deserving students as they pursue associate and bachelor's degree studies. Our scholarships create opportunity for the next generation of advanced manufacturing technicians, technologists and engineers. Visit www.smeef.org to learn more about our mission and how you can get involved.

Thank you to the following sponsors and partners that have made EASTEC 2019 possible.

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See us at Booth #5146

EASTEC 2019 At-A-Glance

TUESDAY, MAY 14 | SHOW HOURS: 9:00 AM – 5:00 PM

Time	Event	Location
9:00 AM – 5:00 PM	SME ZONE	Bldg 1 #1164
9:00 AM – 5:00 PM	Augmented Reality Experience (Sponsored by Makino)	Bldg 5 #5258
9:15 – 10:15 AM	Keynote: Inspiring Innovation and Sustainability <i>Marty Guay, Stanley Black & Decker</i>	SME ZONE Bldg 1 #1164
10:00 – 10:15 AM	Knowledge Bar: Automating Part Gauging for High-Mix, Small-Batch Manufacturing <i>David Henderson, New Scale Robotics</i>	SME ZONE Bldg 1 #1164
10:20 – 11:00 AM	Adapt Your Manufacturing Process: Do More with Less <i>Mark Sumner, Acieta</i>	Smart Manufacturing Hub Bldg 5 #5375
10:30 – 11:05 AM	Simulation Advancements in “Industry 4.0” <i>Serge Viau, CGTech</i>	SME ZONE Bldg 1 #1164
10:45 AM – 12:45 PM	Workshop: Getting Started with Metal & Hybrid Additive Manufacturing: An Overview & Outlook <i>Jeffrey Crandall and Henry Babiec, CCAT - Connecticut Center for Advanced Technology, Inc.</i>	Bldg 3, Room 1
10:45 AM – 12:45 PM	Workshop: The KISS Method to Automation <i>Corey Carolla, Red Rabbit Automation</i>	Bldg 3, Room 2
11:00 – 11:15 AM	Knowledge Bar: Deburring Holes Efficiently with ECM <i>Mike Hively, EMAG, LLC</i>	SME ZONE Bldg 1 #1164
11:15 – 11:50 AM	How to Reduce Sheet Metal Design Risks and Production Costs <i>Jamie White, Protolabs</i>	SME ZONE Bldg 1 #1164
11:20 AM – 12:00 PM	A Deep Dive into Metal 3D Printing <i>George Morar, Protolabs</i>	Smart Manufacturing Hub Bldg 5 #5375
12:00 – 1:15 PM	Lunch and Learn: Unique Tooling Solutions for Maximizing Productivity <i>Jack Kohler, Greenleaf Corporation</i> (Sponsored by Greenleaf Corporation)	SME ZONE Bldg 1 #1164
12:20 – 1:00 PM	The Future of Manufacturing: Growing Your Job Shop in Industry 4.0 <i>Jason T. Ray, Paperless Parts</i>	Smart Manufacturing Hub Bldg 5 #5375
1:20 – 2:00 PM	Not Your Father's CMM – New Generation CMMs Solve Two Problems <i>Milan Kocic, Hexagon Manufacturing Intelligence</i>	Smart Manufacturing Hub Bldg 5 #5375
1:25 – 2:00 PM	Holistic Plastic Part Design <i>Dr. Keith Hechtel, DBA, Curbell Plastics, Inc.</i>	SME ZONE Bldg 1 #1164
2:00 – 2:15 PM	Knowledge Bar: Benefits of Engineered Surface Finishes <i>Sanjai Keshavan, Nagel Precision, Inc.</i>	SME ZONE Bldg 1 #1164
2:00 – 4:00 PM	Workshop: The Keys To Industry 4.0 Success: Why Most Projects Fail and How You Can Learn From Their Mistakes <i>Eric Fogg, MachineMetrics</i>	Bldg 3, Room 1
2:00 – 4:00 PM	Workshop: Impactful Marketing Tactics for Manufacturers <i>Chris Ciunci, TribalVision</i> (Sponsored by TribalVision)	Bldg 3, Room 2

TUESDAY, MAY 14 SHOW HOURS: 9:00 AM – 5:00 PM (CONTINUED)		
Time	Event	Location
2:10 – 2:45 PM	Workpiece Stabilization and Non-Traditional Fixturing for Machining, Welding and Other Processes <i>John Zaya, BIGKAISER Precision Tooling, Inc.</i>	SME ZONE Bldg 1 #1164
2:20 – 3:00 PM	The Industrialization of Metal Additive Manufacturing; Some Days are Diamonds; Some Days are Rocks <i>Graham F. Boyd, SLM Solutions</i>	Smart Manufacturing Hub Bldg 5 #5375
2:55 – 3:30 PM	Machine Learning Classification for Tool Life Modeling Using Production Shop-Floor Tool Wear Data <i>Peng Li, GE Global Research Center</i>	SME ZONE Bldg 1 #1164
3:00 – 3:15 PM	Knowledge Bar: Milling Strategies for Challenging Aerospace Parts <i>Evan Duncanson, Emuge Corp.</i>	SME ZONE Bldg 1 #1164
3:20 – 4:00 PM	Making Shop Workflow Accessible and Easy to Digest <i>Vahid Kalhori, Sandvik Applied Manufacturing Technologies</i>	Smart Manufacturing Hub Bldg 5 #5375
4:20 – 5:00 PM	5 Steps to Success: Cashing in on the Promise of Data-Driven Manufacturing <i>David McPhail, MEMEX Inc.</i>	Smart Manufacturing Hub Bldg 5 #5375
5:00 – 6:30 PM	New England Manufacturing Networking Reception (Sponsored by Eastern States Exposition and Mastercam)	Outside/Tented Area
WEDNESDAY, MAY 15 SHOW HOURS: 9:00 AM – 5:00 PM		
Time	Event	Location
8:00 AM – 5:00 PM	Additive Manufacturing Series Seminar: Additive Manufacturing Materials	Carriage House at Eastern States Exposition
9:00 AM – 5:00 PM	Augmented Reality Experience (Sponsored by Makino)	Bldg 5 #5258
9:15 – 10:15 AM	Keynote: Riding the Crest: Economic Outlook <i>Alan Beaulieu, ITR Economics</i> (Sponsored by Chubb Insurance)	SME ZONE Bldg 1 #1164
10:00 – 10:15 AM	Knowledge Bar: Understanding Welding Procedure Qualifications <i>Burt Riendeau, Airgas USA, LLC</i>	SME ZONE Bldg 1 #1164
10:20 – 11:00 AM	Preparing for the Loss of Your Go-To Guy: Make Your Know-How Digital to Stay Competitive and Always be Prepared for Change <i>Jenny Hörnlund, Sandvik Applied Manufacturing Technologies</i>	Smart Manufacturing Hub Bldg 5 #5375
10:30 – 11:05 AM	Tooling Life in the Age of Regulation: Life After Chlorinated Paraffins <i>Hoon Kim, BASF/Chemetall</i>	SME ZONE Bldg 1 #1164
10:45 AM – 12:45 PM	Workshop: AR, VR, MR, or xR? Making Sense of the Extended Realities That Fit Your Engineering and Manufacturing Enterprise <i>Eric Kam, ESI Group</i>	Bldg 3, Room 2
11:00 – 11:15 AM	Knowledge Bar: Traditional vs. Modern ERP Platforms <i>Christopher Shadbolt, Genius ERP</i>	SME ZONE Bldg 1 #1164

EASTEC 2019 At-A-Glance

WEDNESDAY, MAY 15 SHOW HOURS: 9:00 AM – 5:00 PM (CONTINUED)		
Time	Event	Location
11:15 – 11:50 AM	Fiber-Reinforced 3D Printed DLP Parts for Use in Injection Mold Tooling <i>Karlo Delos Reyes, Fortify</i>	SME ZONE Bldg 1 #1164
11:20 AM – 12:00 PM	The Industrialization of Metal Additive Manufacturing; Some Days are Rocks; Some Days are Diamonds <i>Graham F. Boyd, SLM Solutions</i>	Smart Manufacturing Hub Bldg 5 #5375
11:30 AM – 2:30 PM	SME Chapter Roundtable	TBD
12:00 – 1:15 PM	Lunch and Learn: Optimizing CNC Machine Tooling and Increasing Productivity by 10–40% <i>Robbie McKee, JM Performance Products, Inc.</i> (Sponsored by JM Performance Products, Inc.)	SME ZONE Bldg 1 #1164
12:20 – 1:00 PM	Unlock the Power of Data Hidden in Your Job Shop <i>Jason T. Ray, Paperless Parts</i>	Smart Manufacturing Hub Bldg 5 #5375
1:20 – 2:00 PM	AI in Manufacturing: The Rise of the Augmented Human and the Thinking Machine <i>John Canosa, Augmentir</i>	Smart Manufacturing Hub Bldg 5 #5375
1:25 – 2:00 PM	The Future of Robotic Welding <i>Pete Rogers, Acieta</i>	SME ZONE Bldg 1 #1164
2:00 – 2:15 PM	Knowledge Bar: Alloy Development for Additive Manufacturing <i>Aaron LaLonde, PhD, SLM Solutions</i>	SME ZONE Bldg 1 #1164
2:00 – 4:00 PM	Workshop: Business Bootcamp: How Successful Organizations are Increasing Engagement, Execution, and Earnings <i>Shane Yount, Competitive Solutions, Inc.</i>	Bldg 3, Room 1
2:00 – 4:00 PM	Workshop: Advanced Functionality for Modern Controls <i>Rick Schultz and Frank Nuqui, FANUC America</i>	Bldg 3, Room 2
2:10 – 2:45 PM	Advantages of Waterjet Technology: Versatility, Efficiency, and Productivity <i>Brian Sherick, Flow International</i>	SME ZONE Bldg 1 #1164
2:20 – 3:00 PM	How to Reduce Sheet Metal Design Risks and Production Costs <i>LaShawn LeBaron, Protolabs</i>	Smart Manufacturing Hub Bldg 5 #5375
2:55 – 3:30 PM	Techniques to Effectively EDM Bi-Metal Cavities <i>Robert Fothergill, POCO Graphite, an Entegris Company</i>	SME ZONE Bldg 1 #1164
3:00 – 3:15 PM	Knowledge Bar: Reducing Electrode Wear in Aerospace & Molding Industries <i>Jim Weirido, MC Machinery Systems/Mitsubishi EDM</i>	SME ZONE Bldg 1 #1164
3:20 – 4:00 PM	Adapt Your Manufacturing Process: Do More with Less <i>Mark Sumner, Acieta</i>	Smart Manufacturing Hub Bldg 5 #5375
4:20 – 5:00 PM	Fueling Continuous Improvement with Real-Time Data: The Underlying ROI/Business Case <i>David McPhail, MEMEX, Inc.</i>	Smart Manufacturing Hub Bldg 5 #5375
5:00 – 7:00 PM	SME President's Reception Celebrating our Customers	SME ZONE Bldg 1 #1164

THURSDAY, MAY 16 | SHOW HOURS: 9:00 AM – 3:00 PM

Time	Event	Location
8:00 AM – 2:00 PM	Student Summit	Bldg 4
9:00 – 9:15 AM	Department of Defense Manufacturing Challenge	SME ZONE Bldg 1 #1164
9:00 AM – 3:00 PM	Augmented Reality Experience <i>(Sponsored by Makino)</i>	Bldg 5 #5258
9:15 – 10:15 AM	Keynote Panel: Engage a Multi-Generational Workforce for Sustainable Manufacturing	SME ZONE Bldg 1 #1164
9:20 – 10:00 AM	The Industrialization of Metal Additive Manufacturing; Some Days are Diamonds; Some Days are Rocks <i>Graham F. Boyd, SLM Solutions</i>	Smart Manufacturing Hub Bldg 5 #5375
10:00 – 10:15 AM	Knowledge Bar: Solving QC Bottlenecks via Walk-Up Metrology <i>Rick Lasure, The L.S. Starrett Company</i>	SME ZONE Bldg 1 #1164
10:20 – 11:00 AM	Automated and Robotic Near-Line and In-Line 3D Inspection Solutions <i>Treb Quesinberry, Metrologic Group</i>	Smart Manufacturing Hub Bldg 5 #5375
10:30 – 11:05 AM	Automation for Coating Operations: Specialty Movements <i>Martin Powell, Carlisle Fluid Technologies</i>	SME ZONE Bldg 1 #1164
10:45 – 11:45 AM	Apprenticeships in Massachusetts: Resource Support for Manufacturers <i>Leslie Parady, MassMEP</i>	Storrowton Tavern at Eastern States Exposition
10:45 AM – 12:45 PM	Workshop: Creating a Successful Lean Transformation <i>Pete Winiarski, Win Enterprises, LLC</i>	Bldg 3, Room 1
11:00 – 11:15 AM	Knowledge Bar: Why Vacuum Heat Treating? <i>Tim Steber, Solar Atmospheres</i>	SME ZONE Bldg 1 #1164
11:15 – 11:50 AM	Quality Measurement and Inspection with X-ray CT Scanning <i>Hermisno Villarraga-Gomez, PhD, Nikon Metrology, Inc.</i>	SME ZONE Bldg 1 #1164
11:20 AM – 12:00 PM	A Deep Dive into Metal 3D Printing <i>George Morar, Protolabs</i>	Smart Manufacturing Hub Bldg 5 #5375
12:00 – 1:15 PM	Lunch and Learn: Adaptive ERP for Life Sciences & Automotive Manufacturers <i>Michael Koliias and Tom Roberts, QAD Inc. (Sponsored by QAD, Inc.)</i>	SME ZONE Bldg 1 #1164
12:20 – 1:00 PM	Industry 4.0 Simplified for All: Job Shop to OEM, Quoting to Quality <i>Gregg Biglieman, PhD, Sandvik Applied Manufacturing Technologies</i>	Smart Manufacturing Hub Bldg 5 #5375
1:20 - 2:00 PM	Bridging the Customer Experience Gap to Win More Work <i>Jason T. Ray, Paperless Parts</i>	Smart Manufacturing Hub Bldg 5 #5375
1:25 – 2:00 PM	How to Reduce Operating Costs in Your Manufacturing Facility with Energy Efficiency <i>Lauren Mattison MS, CEM, and Beka Kosanovic, PhD, UMass Center for Energy Efficiency and Renewable Energy</i>	SME ZONE Bldg 1 #1164
2:00 – 2:15 PM	Knowledge Bar: Error Proofing the Tool Load Process with RFID Tool Identification <i>Mike Laurendeau, Caron Engineering, Inc.</i>	SME ZONE Bldg 1 #1164

SME ZONE is located in Bldg 1 #1164

Smart Manufacturing Hub located in Bldg 5 #5375

Workshops and the Additive Manufacturing Seminar, highlighted in blue, require a registration fee. All others are free to EASTEC attendees.

SME reserves the right to amend this program. In the event of a cancellation, SME is not responsible for incidental costs incurred by registrants. It is recommended that refundable airline tickets be purchased.

**COMPLIMENTARY
KEYNOTE PRESENTATIONS**

Located in the Theater in the SME Zone - Building 1 #1164

**Tuesday, May 14 | 9:15 - 10:15 AM
INSPIRING INNOVATION AND SUSTAINABILITY**



*Marty Guay,
Vice President, Business Development,
Stanley Black & Decker*

The Northeast was at the heart of the early Industrial Revolutions and Stanley Black & Decker is focused on reigniting that innovative ecosystem to be a leader in the Fourth Industrial Revolution. The STANLEY+Techstars Additive Manufacturing Accelerator brings early-stage, growth-driven companies to the Advanced Manufacturing Center of Excellence to collaborate through education, mentorship and financing. The innovations center on 3D printing, rapid prototyping, direct digital manufacturing, additive fabrication and eco-friendly solutions. This keynote presentation will focus on Stanley Black & Decker's collaboration with startups to grow the manufacturing community and foster innovative technology and sustainability.

**Wednesday, May 15 | 9:15 - 10:15 AM
RIDING THE CREST - ECONOMIC OUTLOOK**

Sponsored by: **CHUBB®**



*Alan Beaulieu,
President and Principal,
ITR Economics*

The economic trends are shifting. Seeing those shifts, understanding them, and setting realistic expectations for the remainder of 2019 and for 2020 will require managers to be keenly aware of the changes taking place. Thinking and planning for the changes before they are on your door step is key to being successful as we go through the business cycle. Attend and learn what the leading indicators are telling us and what it all means for manufacturing going forward.

**Thursday, May 16 | 9:15 - 10:15 AM
KEYNOTE PANEL: ENGAGE A MULTI-GENERATIONAL
WORKFORCE FOR SUSTAINABLE MANUFACTURING**



*Moderator:
Denise Ball,
Workforce Development Specialist,
Tooling U-SME*



*Panelists:
Mary Ann Pacelli,
National Program Manager,
Manufacturing Extension Partnership (MEP)*



*Michael Munday,
CEO and Owner,
Arwood Machine Corporation,*



*David Dussault,
CEO,
P1 Holdings, Inc.*

With millions of manufacturing workers expected to retire in the next few years, building your workforce is critical to the success and sustainability of manufacturing. As new employees enter the hiring pool, employers are discovering that engaging the needs of multiple generations takes thoughtful planning and new conversations. Manufacturers need to implement strong on-boarding, mentoring, along with new learning and development programs. These strategies need to align with the way these generations learn and re-think policies to attract and retain the future workforce while also capturing the knowledge from their most senior employees. This panel will explore various examples from industry and discuss how these companies are stepping up to meet the challenge.

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ADDITIVE MANUFACTURING SERIES SEMINAR

Wednesday, May 15 | 8:00 AM - 5:00 PM

Located in the Carriage House at Eastern States Exposition

ADDITIVE MANUFACTURING MATERIALS

The Additive Manufacturing Seminar Series, co-located with the EASTEC Event, focuses on advanced manufacturing technologies, tools and practices that optimize development and production. By attending the Seminar, you will join manufacturers throughout the country as they explore innovative manufacturing solutions using AM technologies, network with peers and find out what's new to help plan and execute your additive manufacturing strategy.

Learn how:

- Major manufacturers and suppliers have transformed their operations by embracing Additive Manufacturing with a focus on the materials used to produce production-ready parts
- Industry experts are implementing the technology by hearing various case studies with the real life examples of how AM is transforming traditional manufacturing
- Materials used are ever-changing and how metals, polymers and advanced composites are utilized to create final parts

Seminar registration includes:

- New England Manufacturing Networking Reception on May 14, 5:00 - 6:30 PM
- SME President's Reception on May 15, 5:00 - 7:00 PM

The following companies are scheduled to speak at the seminar.



COMPLIMENTARY EDUCATIONAL PRESENTATIONS

Located in the Theater in the SME Zone - Building 1 #1164

Tuesday, May 14 | 10:30 - 11:05 AM
SIMULATION ADVANCEMENTS IN "INDUSTRY 4.0"

Serge Viau, Sales Engineer, CGTech

Manufacturers are attempting to understand and implement the "digital twin." With more NC manufacturing data available, choosing the best data, using it efficiently, and optimizing processes are key to reducing costs and improving efficiency. Software interoperability connects CAD/CAM systems, PLM systems, tooling databases, Cloud-based downloadable resources, and CNC machines, providing realistic and accurate data. Learn how companies can make better business decisions by simulating CNC machines in a robust virtual environment (versus in reality).

11:15 - 11:50 AM
HOW TO REDUCE SHEET METAL DESIGN RISKS AND PRODUCTION COSTS

Jamie White, Product Manager, Sheet Metal, Protolabs

You're bound to encounter a few twists and turns when designing parts for sheet metal fabrication. In this presentation, we'll briefly look at the multi-step manufacturing process involved in creating sheet metal parts and the various equipment used along the way. You'll learn which part features increase production risks, the resulting design implications, and most importantly, how to reduce that risk through design iterations. We'll also discuss tactics to reduce overall production costs.

1:25 - 2:00 PM
HOLISTIC PLASTIC PART DESIGN

Dr. Keith Hechtel, DBA, Senior Director of Business Development, Curbell Plastics, Inc.

Engineering plastics have seen widespread use in demanding aerospace, military, and industrial applications. These materials have unique mechanical, electrical, and thermal properties that allow them to perform in conditions where other materials will rapidly fail. This presentation will include an overview of

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plastic material selection and plastic part design. A number of new plastics that offer quality improvements and cost savings compared with traditional plastics will be introduced.

2:10 – 2:45 PM

WORKPIECE STABILIZATION AND NON-TRADITIONAL FIXTURING FOR MACHINING, WELDING, AND OTHER PROCESSES

John Zaya, Product Manager - Workholding, BIGKAISER Precision Tooling Inc.

In today's marketplace where part mix is high and volumes are low, the ability for a shop to thrive requires flexibility with the ability to change at a moment's notice, all while maintaining high part quality. Fixturing requirements are becoming more complex as workpiece complexity is increasing. We will look at how parts that have traditionally posed workholding challenges are being held rigidly and securely with modern-day solutions.

2:55 – 3:30 PM

MACHINE LEARNING CLASSIFICATION FOR TOOL LIFE MODELING USING PRODUCTION SHOP-FLOOR TOOL WEAR DATA

Peng Li, Senior Principal Scientist, GE Global Research Center

Tool wear in machining is difficult to predict due to a large number of influencing variables and tool-to-tool performance variation. In this presentation, machine learning classification methods, Support Vector Machines, and Logistic, for modeling tool life using production shop-floor tool wear data will be presented. Results show good agreement with the 'true' tool life curve. A simplified method to generate synthetic data to augment sparse and unbalanced datasets is also presented.

Wednesday, May 15 | 10:30 – 11:05 AM

TOOLING LIFE IN THE AGE OF REGULATION: LIFE AFTER CHLORINATED PARAFFINS

Hoon Kim, Senior Principal R&D Scientist, BASF/Chemetall

Among various extreme pressure (EP) agents, chlorinated paraffins (CPs) have been the most popular EP additive in metalworking fluids (MWFs) due to the numerous advantages including cost effectiveness, wide activation temperature, versatility in applications, easy formulation and stability in water. But CPs have health and hazard issues. Thus, MWF manufacturers

are seeking CP alternatives. Along this line, the present report describes new organic-inorganic hybrid systems as new EP and corrosion inhibitor technology for MWF application.

11:15 – 11:50 AM

FIBER-REINFORCED 3D PRINTED DLP PARTS FOR USE IN INJECTION MOLD TOOLING

Karlo Delos Reyes, Vice President Business Development, Fortify

In order to realize inefficiencies and to iterate more frequently in the plastic prototyping process, engineers are turning to 3D printed tooling as a fast and cost-effective replacement for aluminum tools. However, typical 3D printed plastics are unable to handle the pressures or temperatures of longer injection mold runs. In our study, we investigate how incorporating reinforcing-additives, such as engineering grade ceramics, to the 3D printing resin can extend tool life.

1:25 – 2:00 PM

THE FUTURE OF ROBOTIC WELDING

Pete Rogers, Vice President of Operations, Acieta

Robotic welding systems have evolved over the years and now have the ability to take on more jobs than ever before. With added pressures of labor shortages and global competition, robotic welding technologies are giving manufacturers the ability to maintain consistent throughput and quality without increasing costs.

2:10 – 2:45 PM

ADVANTAGES OF WATERJET TECHNOLOGY: VERSATILITY, EFFICIENCY, AND PRODUCTIVITY

Brian Sherick, Vice President of North America Sales, Flow International

Regarded as the most versatile process in the world, waterjet systems allow fabricators to take on any manner of work. Waterjets complement other fabricating technologies and are becoming the process of choice for many fabricators and machine shops. You will hear how waterjet technology continues to benefit customers, using several smart approaches to maximize performance which includes productivity, cost, and accuracy driving significant gains in the manufacturing industry.

2:55 – 3:30 PM

TECHNIQUES TO EFFECTIVELY EDM BI-METAL CAVITIES

*Robert Fothergill, EDM Applications Specialist,
POCO Graphite, an Entegris Company*

To machine two metals in one detail, you must understand the physical properties and material characteristics that cause them to EDM differently. Through the study of these material characteristics and EDM testing, we have found that there are techniques that allow for efficient machining of different materials as one detail.

This session will discuss the effects of the EDM process with a bi-metal workpiece, and the detailed results of successfully machining across both materials simultaneously.

Thursday, May 16 | 10:30 – 11:05 AM

AUTOMATION FOR COATING OPERATIONS – SPECIALTY MOVEMENTS

Martin Powell, Technical Systems Specialist, Carlisle Fluid Technologies

Automation comes in many forms. We often think of robots when automation is mentioned. Many think we are taking jobs from workers when automation is used. In the search for skilled labor or any labor, companies are looking for innovative ways to automate processes.

This presentation will present other concepts of automation: reciprocators, X-Y Machines, indexing systems, automatic loading of ovens, and other specialized conveyor movements that add automation to a process.

11:15 – 11:50 AM

QUALITY MEASUREMENT AND INSPECTION WITH X-RAY CT SCANNING

*Herminso Villarraga-Gomez, X-ray CT Metrology Specialist,
Nikon Metrology, Inc*

The aim of this presentation is to illustrate the application of X-ray computed tomography (CT) not only for non-destructive inspection but also for the metrological assessment of diverse manufactured parts, particularly by using dimensional metrology (part-to-CAD comparison, wall thickness analysis, size measurements) and for material inspection (voids and defect detection). The benefits of CT for the quality assessment and inspection of new manufacturing technologies such as additive manufacturing (or 3D Printing) will be considered.

1:25 – 2:00 PM

REDUCE OPERATING COSTS IN YOUR MANUFACTURING FACILITY WITH ENERGY EFFICIENCY

Lauren Mattison, MS, CEM and

Beka Kosanovic, PhD, UMass Center for Energy and Renewable Energy

In most manufacturing facilities, there is substantial potential to reduce operating costs through improved energy efficiency. While some of these opportunities involve significant capital investments, many only require simple modifications to existing equipment or controls at little to no implementation cost. We will discuss how energy efficiency can benefit businesses, typical efficiency opportunities and best practices, how we can help eligible facilities get started with a free assessment through the U.S. Department of Energy's Industrial Assessment Center program, and a case study of a facility that saved more than \$100,000 a year based on our recommendations.

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WORKSHOPS

All workshops require a separate registration fee. Include a lunch voucher, beverage and EASTEC Exhibit Floor registration.
SME Member: \$125 and Non-member: \$145

Tuesday, May 14 | 10:45 AM - 12:45 PM GETTING STARTED WITH METAL & HYBRID ADDITIVE MANUFACTURING: AN OVERVIEW & OUTLOOK

This session is located in Building 3, Room 1



*Jeffrey Crandall,
Additive Manufacturing Research &
Applications Senior Engineer,
CCAT - Connecticut Center for
Advanced Technology*



*Henry Babiec, Manufacturing Applications
Engineer,
Connecticut Center for Advanced
Technology - CCAT*

Metal additive manufacturing is rapidly evolving into a set of tools available for manufacturers. At the leading edge of this evolution are hybrid machines that combine the power of metal additive manufacturing with traditional subtractive manufacturing resulting in the ability to create complex parts that neither technology can build by itself. This presentation will introduce you to hybrid manufacturing, then show you applications of the technology, and discuss how hybrid may apply to your business.

10:45 AM - 12:45 PM THE KISS METHOD TO AUTOMATION

This session is located in Building 3, Room 2



*Corey Carolla, Vice President Corporate
Development, Red Rabbit Automation*

What steps and information will help your company to see the value of robotic automation as the future for your company's manufacturing initiatives? In this workshop you will learn why automation needs to be in the corporate strategy moving forward, hear specific case studies on how to keep the process as simple and cost effective as possible, and learn the ROI potential for growth and stability moving your company into the future.

2:00 - 4:00 PM THE KEYS TO INDUSTRY 4.0 SUCCESS: WHY MOST PROJ- ECTS FAIL AND HOW YOU CAN LEARN FROM THEIR MISTAKES

This session is located in Building 3, Room 1



*Eric Fogg,
Co-Founder and COO,
MachineMetrics*

The IoT Revolution is picking up speed and as it does, it is changing the manufacturing world forever. Of the many manufacturers in pursuit of digitization, a large number are unlikely to succeed. According to a 2017 Cisco study, 74% of companies that begin an IoT initiative fail, leading to a greater hesitation for manufacturers to embark on their digital transformation journeys. So what's the secret sauce to Industry 4.0 success?

2:00 - 4:00 PM IMPACTFUL MARKETING TACTICS FOR MANUFACTURERS

This session is located in Building 3, Room 2



*Chris Ciunci,
Managing Partner,
TribalVision*

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HELPING BUSINESS MARKET SMARTER

With more and more manufacturers expanding their digital footprint, your company's marketing strategy needs to have an updated toolbox of digital marketing channels and tactics. These full-funnel digital marketing efforts are essential for a manufacturer's marketing strategy.

Wednesday, May 15 | 10:45 AM - 12:45 PM

AR, VR, MR, OR xR? MAKING SENSE OF THE EXTENDED REALITIES THAT FIT YOUR ENGINEERING AND MANUFACTURING ENTERPRISE

This session is located in Building 3, Room 2



Eric Kam, Solution Market Strategist Smart Factory, ESI Group

“Industry 4.0” and “Smart Factories” initiatives have created expectations for implementation of Augmented, Virtual, and Mixed Realities (AR, VR, MR) with little explanation of the desired effect of employing the technology. When should we use augmented reality? Will AR achieve the same benefits as VR?



What extended reality (xR) platform best addresses your engineering needs? In this session, we will define these disparate technologies and work together to identify where they apply to your enterprise.

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2:00 - 4:00 PM

BUSINESS BOOTCAMP: HOW SUCCESSFUL ORGANIZATIONS ARE INCREASING ENGAGEMENT, EXECUTION, AND EARNINGS

This session is located in Building 3, Room 1



*Shane Yount,
President,
Competitive Solutions, Inc.*

Organizations have become a slave to team models that are inefficient, unproductive, and bureaucratic. As well intentioned leaders attempt to add the latest Continuous Improvement tool as a sign of forward thinking strategic commitment, sustainment and ownership is compromised due to ineffective teams. This session will challenge attendees to examine their current operating system and team functionality, while providing proven and practical solutions for improvement.

2:00 - 4:00 PM

ADVANCED FUNCTIONALITY FOR MODERN CONTROLS

This session is located in Building 3, Room 2



*Rick Schultz, Aerospace Program Manager,
FANUC America and*



*Frank Nuqui,
Aerospace Program Manager,
FANUC America*

Part manufacturing is extremely competitive requiring suppliers to constantly work on reducing cycle times while improving part accuracy and finish. Significant amounts of money are spent on tooling and external systems to try to improve processes yet very few are taking advantage of the many advanced functions available in modern controls.

Thursday, May 16 | 10:45 AM - 12:45 PM
CREATING A SUCCESSFUL LEAN TRANSFORMATION

This session is located in Building 3, Room 1



*Pete Winiarski,
CEO and Founder,
Win Enterprises, LLC*

“Lean” has unfortunately received status as a buzzword, where everyone thinks they know what lean is – yet few have truly been through a full transformation. In this session you will learn to recognize the different mistakes companies make and also learn what systems to put in place to ensure your success.

LUNCH & LEARN PRESENTATIONS

All Lunch & Learn Presentations are located in the Theater in the SME ZONE – Building 1 #1164

Tuesday, May 14 | 12:00 - 1:15 PM
UNIQUE TOOLING SOLUTIONS FOR MAXIMIZING PRODUCTIVITY

Jack Kohler, Applications Engineer, Greenleaf Corporation

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This seminar will focus on eliminating waste within customer value streams utilizing Greenleaf’s engineered solutions. These solutions include standard and special tooling that provide customers with higher productivity and help them meet cost-saving initiatives.





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Wednesday, May 15 | 12:00 - 1:15 PM OPTIMIZING CNC MACHINE TOOLING AND INCREASING PRODUCTIVITY BY 10-40%

Robbie McKee, Sales, JM Performance Products, Inc.


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The Industry Leader in Milling Machine Optimization

An inherent design flaw in CAT or V-Flange tooling causes vibration and chatter, run-out, poor finishes, poor tolerances, non-repeatability, shortened tool life and excessive spindle wear and tear. We will describe how the problem can be identified in any shop and explain the causes. This presentation will illustrate how all these issues cost money and negatively affect production.

Thursday, May 16 | 12:00 - 1:15 PM ADAPTIVE ERP FOR LIFE SCIENCES & AUTOMOTIVE MANUFACTURERS

Michael Koliass, Director of Life Sciences, QAD Inc.

Tom Roberts, VP - Automotive Business Development, QAD, Inc.

Sponsored by: 

Join the exhilarating discussion on adaptive ERP for manufacturers and why you need to focus on a rapid, agile and effective solution for your company. In this session, Tom Roberts and Michael Koliass are going to take you on a journey of where companies go wrong and why having a flexible ERP in place is one of the single most important core business solutions in your company. Tom and Mike will walk through the importance of implementing technology to keep your business flourishing for years to come. Listen as they disrupt your thinking, provide you with guidance on a new way of thinking and help you push your companies potential through the ceiling during this information session. You will not want to miss it.



SMART MANUFACTURING HUB

Be sure to visit this dynamic area on the event floor that features advanced manufacturing technologies including 3D printing, inspection, measurement technologies and more. Insightful technical presentations combined with resources from leading technology providers will bring you up to speed quickly on developments in the quickly changing field.

All Smart Manufacturing Hub Presentations are located in Building 5, #5375.

**Adapt Your Manufacturing Process:
Do More with Less**

TUESDAY, MAY 14 | 10:20 - 11:00 AM
WEDNESDAY, MAY 15 | 3:20 - 4:00 PM

Mark Sumner, Vice President of Sales & Marketing, Acieta

Sponsored by: 

Fabricators today face a major paradox: high demand for faster lead time and a dwindling workforce. Integrating robotic automation into your fabrication process frees up floor space, increases productivity, all with fewer workers. Acieta will expand on the benefits of robotic automation and how to choose the right robotics integrator. Attendees will hear real examples of how automation helped one company increase their capacity by 50% by streamlining their operations.

**AI in Manufacturing - The Rise of the
Augmented Human and the Thinking
Machine**

WEDNESDAY, MAY 15 | 1:20 - 2:00 PM

John Canosa, CTO & Co-Founder, Augmentir

Sponsored by: 

The emergence of Artificial Intelligence (AI), Augmented Reality (AR), and wearable tech opens the door to connecting historically disconnected frontline workers into the digital fabric of the business. By providing frontline workers with interactive instructions and remote support we are not only guiding them to new levels of productivity and quality but are able to capture human-centric activities in real time. While this step naturally creates even more data points in an already noisy environment, AI offers the solution to converting the noise and clutter into

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insights that identify the largest areas of opportunity in productivity, quality, training, and operations.

In this session, John Canosa, Co-Founder and CTO of Augmentir, will share how to harvest the value from truly understanding your human-centric operations and illustrates how AI can provide rich insights into human and machine behavior that ultimately unlock the value of AR and wearable tech in industrial organizations.

Not Your Father's CMM - New Generation CMMs Solve Two Problems

TUESDAY, MAY 14 | 1:20 - 2:00 PM

Milan Kocic, Business Development Manager, UX and Innovation, Hexagon Manufacturing Intelligence

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MANUFACTURING INTELLIGENCE

The latest generation of Coordinate Measuring Machines (CMMs) is not reminiscent of your father's standard, go-to measurement solution. CMM technology has continued to evolve due to significant industry challenges - the widening metrology skills gap and the ever-increasing demand on manufacturers to get quality products out the door on time and in spec. Advanced CMM technologies have been introduced to render the modern day CMM more collaborative and autonomous to help operators execute measurement routines expeditiously.

5 Steps to Success: Cashing in on the Promise of Data-Driven Manufacturing

TUESDAY, MAY 14 | 4:20 - 5:00 PM

David McPhail - President & CEO, MEMEX Inc.

Sponsored by:  **MEMEX**
Measuring Manufacturing Excellence

Today's manufacturers are under pressure to shorten lead-times and reduce costs more than ever before and are increasingly adopting Data-Driven Manufacturing to achieve these goals. However, it is not enough for manufacturers to just monitor machines to achieve maximum efficiency and profitability. They must also ensure shop floor data is collected automatically, and in real-time, and then must analyze and act appropriately upon the data collected. In this presentation, MEMEX will use actual case studies to discuss a strategy for monetizing real-time shop floor data that is rooted in a pragmatic repeatable approach, focused on the business case and expected outcome.

Fueling Continuous Improvement with Real-time Data - The Underlying ROI / Business Case

WEDNESDAY, MAY 15 | 4:20 - 5:00 PM

David McPhail - President & CEO, MEMEX Inc.

Sponsored by:  **MEMEX**
Measuring Manufacturing Excellence

Manufacturers profiting from Data-Driven Manufacturing do so primarily because they have a well-defined strategy to incorporate real-time data into their Continuous Improvement methodologies. Data-Driven Manufacturing is transforming Kaizen, Lean, Six Sigma and other methods by shifting the emphasis from data collection and analysis to high value-added activities, rapidly evolving standard work practices. In this presentation, MEMEX will discuss a proven, cost effective strategy for achieving sustainable operational excellence through Impactful Continuous Improvement based on the collection of real-time objective data from all manufacturing assets.

Automated and Robotic Near-Line and In-Line 3D Inspection Solutions

THURSDAY, MAY 16 | 10:20 - 11:00 AM

Treb Quesinberry, Senior Application Engineer, Metrologic Group

Sponsored by:  **metrologic**
group

Metrologic Group will present its revolutionary and unique universal 3D inspection software solutions dedicated to 3D automated and robotic inspection cells that are incorporated with or near the manufacturing line: Metrolog X4 I-Robot, and its complementary offline simulation software: Silma X4 I-Robot with functionalities such as automatic path generation, tool change, collision detection and avoidance, etc.

The Future of Manufacturing: Growing Your Job Shop in Industry 4.0

TUESDAY, MAY 14TH - 12:20 - 1:00 PM

Jason T. Ray, Co-Founder and CEO, Paperless Parts

Sponsored by:  **paperlessPARTS** 

As technology evolves and manufacturing become increasingly more digital, job shops face pressure to produce faster than

ever—and shops that aren't equipped with the right tools may not be able to keep up. We'll take you through the essential digital tools your shop needs to be more productive, increase revenue and grow the business.

Unlock the Power of Data Hidden in Your Job Shop

WEDNESDAY, MAY 15 | 12:20 - 1:00 PM

Jason T. Ray, Co-Founder and CEO, Paperless Parts

Sponsored by: **paperlessPARTS** 

Estimates show that 33% of data generated by job shops can drive business insights, yet, manufacturers use only 0.5% on average. Learn how to leverage the data you already have as an advantage to drive revenue growth.

Bridging The Customer Experience Gap to Win More Work

THURSDAY, MAY 16 | 1:20 - 2:00 PM

Jason T. Ray, Co-Founder and CEO, Paperless Parts

Sponsored by: **paperlessPARTS** 

The customer is king: improving your customer experience is the most effective thing your business can do to gain more repeat business, more referral work, and competitor differentiation. Companies like Xometry, ProtoLabs and 3D Hubs have already figured out how to sell to the new generation of part buyers. We'll show you some simple steps you can take to improve your customer experience and win more work.

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A Deep Dive in to Metal 3D Printing

TUESDAY, MAY 14 | 11:20 AM - 12:00 PM

THURSDAY, MAY 16 | 11:20 AM - 12:00 PM

George Morar, Applications Engineer, Protolabs

Sponsored by:  **PROTOLABS**

Direct metal laser sintering (DMLS) is an emerging additive manufacturing technology that has great potential to change the way metal parts are manufactured. DMLS is ideal when trying to achieve complex geometries, lightweight metal parts, or reduced components. This presentation compares flawed versus optimized geometry, discusses part design considerations, and explores secondary operation options to keep in mind when designing for DMLS.

How to Reduce Sheet Metal Design Risks and Production Costs

WEDNESDAY, MAY 15 | 2:20 - 3:00 PM

Jamie White: Product Manager, Sheet Metal Fabrication, Protolabs


Sponsored by:  **PROTOLABS**

You're bound to encounter a few twists and turns when designing parts for sheet metal fabrication. In this presentation, we'll briefly look at the multi-step manufacturing process involved in creating sheet metal parts and the various equipment used along the way. You'll learn which part features increase production risks, the resulting design implications, and most importantly, how to reduce that risk through design iterations. We'll also discuss tactics to reduce overall production costs.

Making Shop Workflow Accessible and Easy to Digest

TUESDAY, MAY 14 | 3:20 - 4:00 PM

Vahid Kalhori, Director, Business Innovation, Sandvik Applied Manufacturing Technologies

Sponsored by:  **SANDVIK**

Smart Manufacturing, Industry 4.0, the Digital Thread, Big Data, they're all related—and all the buzz—but what's it all even mean? How does the jargon apply to a real shop? The truth is, there's plenty that can be done without putting RFID chips and sensors on every piece of equipment. By simply organizing basic data already onsite shops can learn from the past and help to predict


and improve the future without having to reinvent the business or hold a meeting every time there's a decision to be made.

By making shop workflow accessible and easy to digest, whether it's via mobile devices or even a whiteboard, it's not only making it easier for the teams to communicate with each other, but also help to recognize opportunities for efficiency and keep the operation churning along without much disruption. This presentation discusses how to significantly remove room for error and save time all at once by data transparency.

Preparing for the Loss of Your Go-To Guy - Make Your Know-How Digital to Stay Competitive and Always be Prepared for Change

WEDNESDAY, MAY 15 | 10:20 AM - 11:00 AM

Jenny Hörnlund, Director, Digital Sales and Marketing, Sandvik Applied Manufacturing Technologies

Sponsored by:  **SANDVIK**

Small to medium machining shops know all too well the importance of experienced machinists and programmers. Their unique knowledge of your tools, machinery and their controls—not to mention the floor as a whole—is invaluable. Add a high-mix, low-volume workflow to the equation and there's no substitute for his ability to adapt, set up tools and machines and program on the fly.

In addition, experts on business operations of any kind will tell you clear and repeatable processes are a foundation of success. They stabilize the day to day and build a barrier between efficiency and inefficiency. One way they do this is by making it easier for different people to step in and get different things done, something that will be crucial as you prepare new leaders for the shop floor.

You might call programming the center of the shop wheel: tooling and machinery, quoting and cutting, programming impacts the hardware, software and processes throughout the business. It's why we think improving and simplifying the process can have a huge impact on a shop's ability to be resilient in the face of key personnel departures and get more 3-axis work done. It's a big reason we developed Prism for CNC programming.

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CNC controllers can help you reach the
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Industry 4.0 Simplified for All - Job Shop to OEM - Quoting to Quality

THURSDAY, MAY 16 | 12:20 - 1:00 PM

Gregg Bigleman, PhD

Sponsored by: 

A conversation on how we got to where we are and to what we need to do to fix a broken trend in our industry. Past, present, and what to do now. Also, what to avoid on your path to implementing I4.0

What will be gained by attending?

- An understanding on how we got here
- A solution for a broken concept
- Warning of false profits

What will be discussed or shared?

- Industry 4.0 for Job Shops to OEMs.
- Introduction of a solution - Digital Manufacturing Loop
- Innovative products throughout the Digital Manufacturing Loop
- Quoting to Quality

The Industrialization of Metal Additive Manufacturing; Some Days Are Diamonds; Some Days Are Rocks

TUESDAY, MAY 14 | 2:20 - 3:00 PM

WEDNESDAY, MAY 15 | 11:20 AM - 12:00 PM

THURSDAY, MAY 16 | 9:20 - 10:00 AM

Graham F. Boyd, Regional Manager - Northeast, SLM Solutions

Sponsored by: 

Metal additive manufacturing production and design has ushered in a new era in design, engineering and manufacturing where complexity comes free and barriers to entry that were once unattainable are now available. In well regulated industries like aerospace, medical and automotive balancing this paradigm shift in thinking with the quality standards developed over years of experience brings challenge. In this session we'll identify key challenges to wide adoption and how the industry can better foster this new era of industrialization.

KNOWLEDGE BAR

The Knowledge Bar is located in the SME Zone, Building 1 #1164

Tuesday, May 14 | 10:00 - 10:15 AM

AUTOMATING PART GAUGING FOR HIGH-MIX, SMALL BATCH MANUFACTURING

David Henderson, CEO and Founder, New Scale Robotics

11:00 - 11:15 AM

DEBURRING CROSS HOLES EFFICIENTLY WITH ECM

Mike Hively, ECM Specialist, EMAG LLC

2:00 - 2:15 PM

BENEFITS OF ENGINEERED SURFACE FINISHES

Sanjai Keshavan, Manager, Eco Hone and Microfinish Systems Division, Nagel Precision, Inc.

3:00 - 3:15 PM

MILLING STRATEGIES FOR CHALLENGING AEROSPACE PARTS

Evan Duncanson, Milling Application Specialist, Emuge Corp.

Wednesday, May 15 | 10:00 - 10:15 AM

UNDERSTANDING WELDING PROCEDURE QUALIFICATIONS

Burt Riendeau, Advanced Fabrication Specialist, Airgas USA, LLC

11:00 - 11:15 AM

TRADITIONAL VERSUS MODERN ERP PLATFORMS

Christopher Shadbolt, Senior Sales Executive, Genius ERP

2:00 - 2:15 PM

ALLOY DEVELOPMENT FOR ADDITIVE MANUFACTURING

Aaron LaLonde, PhD, Director of Applications Engineering, SLM Solutions

3:00 - 3:15 PM

REDUCING ELECTRODE WEAR IN AEROSPACE & MOLDING INDUSTRIES

Jim Weirido, Sinker EDM - Applications, MC Machinery Systems/Mitsubishi EDM

SPECIAL PROGRAMS & ACTIVITIES

Thursday, May 16 | 10:00 - 10:15 AM

SOLVING QC BOTTLENECKS VIA WALK-UP METROLOGY

Rick Lasure, Metrology & Precision Sales Manager,
The L.S. Starrett Company

11:00 - 11:15 AM

WHY VACUUM HEAT TREATING?

Tim Steber, Regional Sales Manager, Solar Atmospheres

2:00 - 2:15 PM

ERROR-PROOFING THE TOOL LOAD PROCESS WITH RFID TOOL IDENTIFICATION

Mike Laurendeau, Eastern Regional Sales Manager,
Caron Engineering, Inc.

AUGMENTED REALITY EXPERIENCE

Tuesday, May 14 | 9:00 AM - 5:00 PM

Wednesday, May 15 | 9:00 AM - 5:00 PM

Thursday, May 16 | 9:00 AM - 3:00 PM

The Augmented Reality Experience is located in Building 5, #5258

Sponsored by:  **MAKINO**

Don't miss the Makino Augmented Reality Experience where you can experience the future of machine tool technology like never before. Makino will showcase digital technologies and next-generation innovations using high-tech reality tools that bring the future to life.

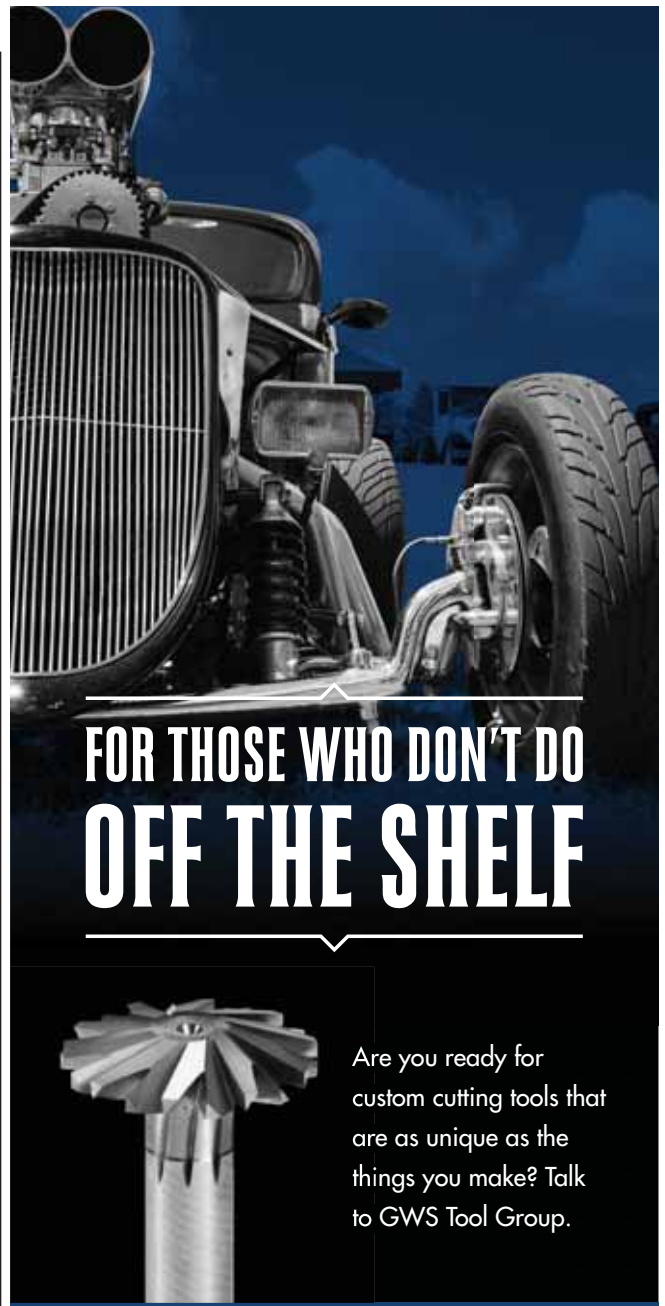
NEW ENGLAND MANUFACTURING RECEPTION

Tuesday, May 14 | 5:00 - 6:30 PM

Located in the tented area between Buildings 3 and 5

Sponsored by:  **Mastercam**

As a thank you for your EASTEC participation, please join us for an hors d'oeuvres and cocktail reception on Tuesday, May 14, sponsored by the Eastern States Exposition and Mastercam. This complimentary reception will take place in the tented area between Buildings 3 and 5. Relax and network with fellow attendees and exhibitors while celebrating manufacturing in New England. We hope to see you all there!



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BOOTH 5621

SME STUDENT SUMMIT

Thursday, May 16 | 8:30 AM - 2:00 PM

The Student Summit is located in Building 4

The Student Summit aims to create interest, excitement and an appreciation for manufacturing, as well as to build awareness with students and educators about manufacturing career pathways. The EASTEC Student Summit allows students to explore exhibits of advanced technologies, talk with industry experts, see the latest manufacturing innovations, and meet local college and university representatives. Students will also have a chance to design and fly Unmanned Aerial Vehicles (Drones) with the help of Ten80 Education.

OBJECTIVES

- Introduce students to the manufacturing industry as a prospective career pursuit
- Provide a high-level overview of advanced design and manufacturing technologies, materials, processes and applications
- Allow students to learn about how and why the technology is used, along with examples of interesting applications
- Provide students the opportunity to ask questions and interact with an industry mentor and see the technology firsthand on the EASTEC show floor

STUDENT BENEFITS

- Gain hands-on experience with product development models and the processes for making physical prototypes
- Obtain a basic understanding of the industry and career options
- Discover a different view of manufacturing
- Become excited to see additive manufacturing as an option
- Understand what engineers can do

BENEFITS TO EDUCATORS AND MENTORS

- Impact the future of the technology
- Influence future workforce
- Demonstrate industry knowledge and leadership

SME PRESIDENT'S RECEPTION

Wednesday, May 15 | 5:00 - 7:00 PM

The SME President's Reception will take place in the SME ZONE, Building 1 #1164

Please join us in the SME ZONE for the SME President's Reception. Meet SME's 2019 President, Mark Michalski, network and collaborate with exhibitors, speakers and other attendees. Enjoy drinks and hors d'oeuvres while connecting with colleagues, friends and business partners. All EASTEC attendees and exhibitors are welcome to attend.

SME CHAPTER ROUNDTABLE LUNCH AND LEARN

Wednesday, May 15 | 11:30 AM - 2:30 PM

Meet with SME's New England and Mid-Atlantic professional and student chapter leaders as well as other SME members interested in attending. This collaborative roundtable will include industry and chapter leader presentations. Be prepared to discuss chapter missions, engagement, recruitment, retention and student chapter relationships. A networking session will conclude the roundtable conference.

ROUNDTABLE SCHEDULE

- 12:00 PM** Special Member Luncheon
- 12:30 - 1:30 PM** Roundtable Conference

Meet at the SME Show office inside the entrance to Building 5

APPRENTICESHIPS IN MASSACHUSETTS: RESOURCE SUPPORT FOR MANUFACTURERS

Thursday, May 16 | 10:45 - 11:45 AM

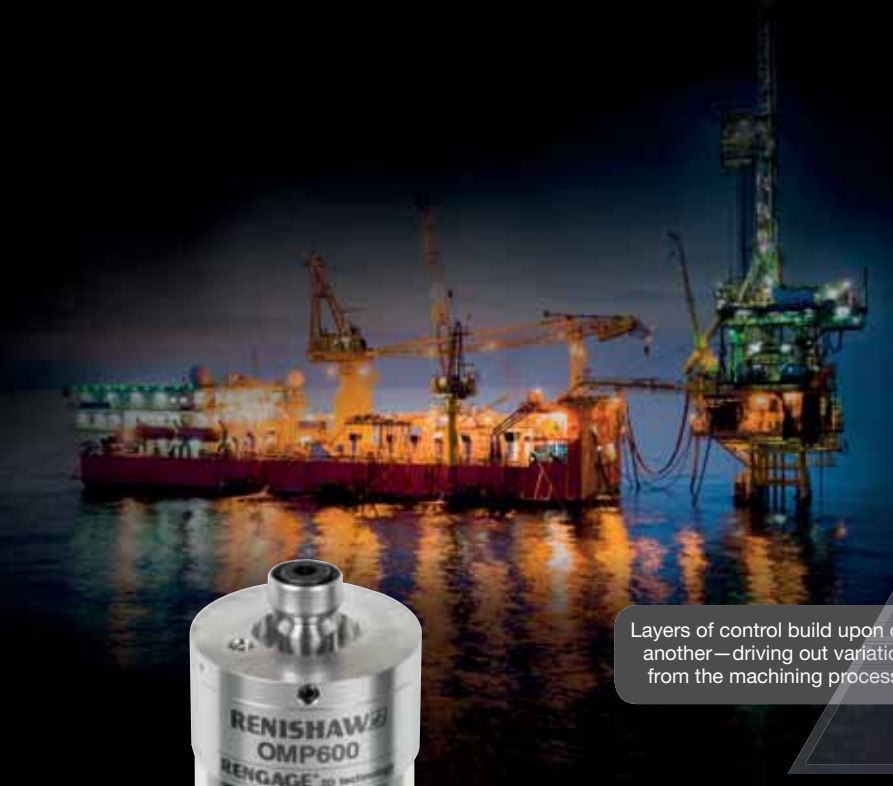
Takes place in Storrowton Tavern, Massachusetts Room

Leslie Parady, Workforce Development Manager, MassMEP

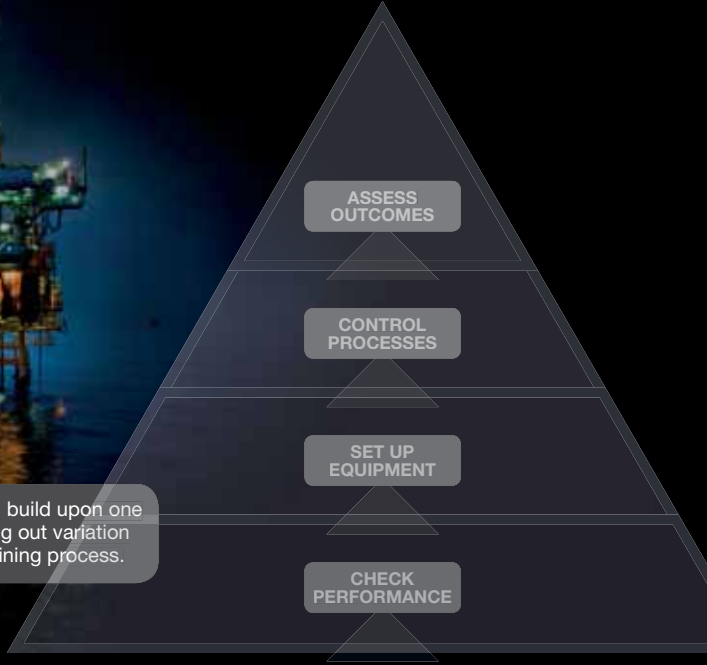


What do a CNC machine operator, a robotics technician, and a technical sales person all have in common? They are all jobs that can be learned through an apprenticeship. While 75 years ago the apprenticeship system started in construction and other skilled trades, today there are apprenticeships in over 1,000 occupations - including emerging careers in Advanced Manufacturing.

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BOOTH #3151





Henry Babiec

*Manufacturing Applications Engineer
Connecticut Center for Advanced
Technology (CCAT)*

Henry has over twenty years of extensive manufacturing engineering experience in a range of industries and has been leading CCAT's Hybrid Manufacturing Program for the past two years.



Denise Ball

*Workforce Development Specialist
Tooling U-SME*

Denise Ball is a Workforce Development Specialist for Tooling U-SME, an industry leader in manufacturing workforce education and development. She has served as a practitioner of best-in-class learning and development techniques for the manufacturing industry for over 25 years. Her extensive background includes workforce development for customized training at Lakeland Community College in Ohio. She also brings hands-on experience in manufacturing as she assisted her family in running a small machine shop for several years. For the past 7 years, she has guided the implementation of workforce education and skills training into corporations across the globe to help develop their workforce with success, as well as facilitated workshops on best practices and various webinars. She resides in Ohio with her husband and has 5 children.



Alan Beaulieu

*President and Principal
ITR Economics*

One of the country's most informed economists, Dr. Alan Beaulieu is President and a principal of ITR Economics. Since 1990, he has consulted across North America, Europe, and Asia, optimizing companies' forecasts and planning to increase profits through his mastery of business-cycle trend analysis. Alan also serves as Senior Economic Advisor to numerous US and international trade associations.

Alan has coauthored, with Brian Beaulieu, the books "Make Your Move," "Prosperity in the Age of Decline," and "But I Want It!" He has also penned numerous articles and makes up to 90 appearances a year. Alan's keynotes and seminars have helped thousands of business owners and executives capitalize on emerging trends.



Corey Carolla

*Vice President Corporate Development
Red Rabbit Automation*

Corey Carolla is VP, Corporate Development with Red Rabbit Automation. His role is to create Automation & Integration solutions to successfully take companies into the next Industry revolution. Corey has helped develop and implement business, economic development alliance collaborations to support and advance the economic vitality of the Midwest.

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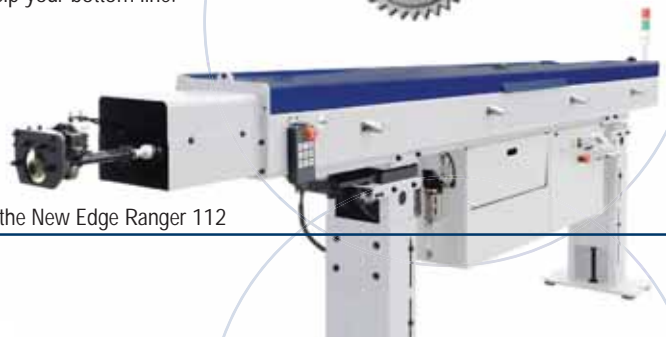
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Chris Ciunci

Managing Partner

TribalVision

Chris Ciunci is the Founder and Managing Partner of TribalVision, an outsourced marketing department for hire in Massachusetts and Rhode Island. Chris oversees TribalVision's strategy, marketing and thought leadership initiatives. In addition, Chris and his team develop comprehensive marketing strategies for manufacturers looking to achieve dramatic top-line growth.



Jeffrey Crandall

Additive Manufacturing Research & Applications Senior Engineer

Connecticut Center for Advanced Technology (CCAT)

Jeff is the Additive Manufacturing Research and Applications Senior Engineer for Connecticut Center for Advanced Technology (CCAT) in East Hartford, CT, and is directly responsible for leading projects involving metals additive applications and development, and technology demonstration and validation programs for wide range of customers.



David Dussault

CEO

P1 Holdings, Inc.

David Dussault - CEO, P1 Holdings, Inc. David is the founder and CEO of DHA Holdings, Inc. (DHA), a high-tech investment company that builds global businesses in the manufacturing and technology sectors with a focus on industrial markets. DHA is hands-on; building new businesses and expanding market share with an active role in daily operations. His responsibilities span all aspects of strategic planning, operations and brand; including organizational design and implementation, business development, value management, financial planning and investment strategies, team formation in addition to operational oversight and quality systems. As founder of DHA and its portfolio companies, David has successfully designed and managed multiple company lifecycles from start-up to growth and maturity for 4+ businesses over the last eight years. His strengths include active strategic initiatives, operational design and deployment in addition to team formation.



Eric Fogg

Co-Founder and COO

MachineMetrics

Eric Fogg is the Co-Founder and Chief Evangelist at MachineMetrics. Eric is a serial entrepreneur, and life-long manufacturing industry expert holding multiple manufacturing patents. Eric is responsible for product strategy, customer integration, and hardware development.



Marty Guay

*Vice President, Business Development
Stanley Black & Decker*

Marty Guay is the Vice President, Business Development, for Stanley Black & Decker. In this capacity, Marty looks to create value creation opportunities by working with startups, innovation eco-systems, and the entrepreneurial community.

Previously, Marty was the President of STANLEY Healthcare, a global business and operating division of Stanley Black & Decker, a Fortune 500 company with a track record of innovation and sustained profitable growth. STANLEY Healthcare is a recognized leader in solutions that transform safety, security and operational efficiency for senior living organizations, hospitals and health systems.

Prior to STANLEY Healthcare, Marty was a senior leader at STANLEY Security, the second largest global provider of electronic security. He served as the President, Integrated Systems as well as the Vice President of Sales and Operations for North America. Before joining STANLEY, Marty had twenty years of security experience notably as the President of Niscayah, USA and the Chief Operating Officer for Securitas Systems.

Marty is an executive member of The Center for Patient Safety Research and Practice based at the Brigham & Women's Hospital and Harvard Medical School. He is also a Board Member of Massachusetts Advocates for Children, a non-profit organization that removes barriers to educational and life opportunities for children and youth.

Marty earned a Bachelor's degree and M.B.A. from the George Washington University. He completed the Program on Negotiation at Harvard Law School.



Eric Kam

*Solution Market Strategist Smart Factory
ESI Group*

Eric Kam is the Smart Factory Solution Strategist with ESI Group. He supports Extended Reality solutions for Product Engineering/Integration, Virtual Build & Maintenance. A digital transformation advocate, he seeks to democratize simulation technologies in CAE, FEA, and CAD. Longtime member-leader of SME technical communities, with a BSME from Michigan Tech.



Michael Munday

*CEO and Owner
Arwood Machine Corporation*

Arwood Machine Corporation is a precision manufacturing company in Newburyport, MA. President since 2007, Munday previously held executive positions at Magellan Aerospace, Palmer Manufacturing and Textron. Prior to that he served in the US Army, 82nd Airborne division. A strong advocate of workforce development and training, he has served on Commonwealth Corporation's Board of Directors and the Planning Board for the Merrimack Valley Workforce Investment Board, the Whittier Regional Vocational Technical High School and Greater Lawrence Technical School. In 2013 he won Pioneer Institute's Better Government competition for a white paper titled "Manufacturing Revitalization."



Frank Nuqui

*Aerospace Program Manager
FANUC America*

Frank Nuqui has been involved in complex manufacturing for 10+ years with roles ranging from service to aerospace program manager. Frank's experience includes 5 axis machining processes and automation.

**Mary Ann Pacelli***National Program Manager**Manufacturing Extension Partnership (MEP)*

Mary Ann Pacelli is the National Program Manager, Workforce Development at the Manufacturing Extension Partnership (MEP), a division of NIST in the US Department of Commerce. Her work includes advocating for Manufacturing Workforce priorities with related federal agencies and providing technical support to the network of MEP centers across the country for workforce related activities. Mary Ann's roles at NIST and the NIST MEP also include supporting the Manufacturing USA Institute Network with the NIST Program Office and facilitating the coordination of the Education and Workforce Development Directors of the 14 Institutes. Previously she was Assistant Director, Workforce and Talent Development at MAGNET (Manufacturing Advocacy and Growth Network), an Ohio MEP affiliate center. Ms. Pacelli coordinated efforts for new business development and the delivery of training and consulting services to area manufacturers designed to improve performance of the organization. In addition, she directed activities to access federal, regional and local funding for projects related to developing a stronger manufacturing workforce pipeline in Ohio.

Ms. Pacelli's experience in Workforce Development began working for Cuyahoga Community College's Corporate Services Division, and the Council for Adult and Experiential Learning (CAEL), a Chicago based education and training firm. For over 28 years, Ms. Pacelli has served numerous manufacturing businesses by assessing their needs and designing and delivering customized programs to improve employee performance.

Ms. Pacelli has a BS/BA in marketing from John Carroll University and a Master's in Education in Adult Learning and Development from Cleveland State University.

**Rick Schultz***Aerospace Program Manager**FANUC America*

Rick Schultz has been involved in advanced manufacturing processes for more than 25 years in many different capacities. His current role is focused on advanced aerospace manufacturing conceptualizing flexible automation solutions and optimal part manufacturing processes.

**Pete Winiarski***CEO & Founder**Win Enterprises, LLC*

Pete Winiarski is the CEO of Win Enterprises, LLC, and the creator of the Win Holistic Transformation Model™ and of CompleteBusinessTransformation.com. Pete is a globally recognized transformational leader, an international best-selling author, and a frequent business expert in the media. Pete has held leadership positions at the Wiremold Company, Danaher, McKinsey and Company, and the George Group.

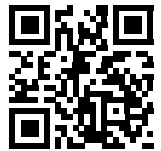
**Shane Yount***President**Competitive Solutions, Inc.*

Shane Yount is a nationally recognized author, speaker and President of Competitive Solutions, Inc., an international Business Transformation consulting firm which pioneered the acclaimed organizational development system known as Process Based Leadership®. He has worked with Michelin, Glaxo Smith Kline, Pfizer, Lockheed Martin, the Department of Defense and many others.

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Exhibitor

Booth

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4D Technology Corp	3211	Alpha Grainger Manufacturing	5683	Blue Photon Technology & Workholding Systems LLC	5734
A. TEC Diamond Co Ltd	5006	Alpha Laser - US	2105	Bodycote Thermal Processing	2031
ABTech Inc	3012	Alpine Bearing Co	5669	Bonal Technologies Inc	1136
Access Manufacturing Systems	5452	Amada Marvel Inc	2114	Boston Laser Tech	5722
Accurate Metal Finishing LLC	5829	Amada Miyachi America	2101	Boston Tooling & Machining Association Inc	5245
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ACM Technologies	3124	ANCA Inc	1244	Bristol Tape Corporation	5851
Acorn Industrial Products Co	5415	Anoplate Corp	5726	Brook Anco Corporation	2110
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Action Bearing Co	5514	Aquajet Cutting Technology	1654	Bruker Corporation	3026
Admiral Metals	5516	Aquest Corp	3347	Brush Research Manufacturing Co	5608
Advance Welding	5870	ARCH Cutting Tools & Beamer Laser Marking Systems	5666	Buffoli North America	2041
Advanced Coating Service	5624	Armology of Connecticut Inc	5246	Burr King Manufacturing Co	1713
Advanced Machine & Engineering	5843	Arnold Supply Inc	5548	Butler Bros	5637
AER Control Systems LLC	5762	American Society of Mechanical Engineers	5751	BUWW Coverings Inc	3335
Aerodynamics Inc	5482	ATAGO USA Inc	5745	C2G	3020
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Aimtek Inc	2108	Autodesk Inc	5326	Cambridge Vacuum Engineering	5857
Air Filtration Systems	3059	AutoForm Engineering USA Inc	5467	Capture 3D Inc	3044
Air Inc	3039	AUTOMATIC LUBE SYSTEMS INC	5869	Carbide Grinding Co Inc	5341
Air Turbine Tools	5753	Automation Engineering Co	5759	Carlson Fabrication Solutions	2128
Airflow Systems Inc	3309	Axis New England	3328	Carmex Precision Tools LLC	5016
Airgas	1656	Babin Machine Tool	1743	Caron Engineering Inc	5432
Airline Hydraulics Corp	1820	Behringer Saws Inc	2000	Carr Lane Manufacturing/ Carr Lane Roemheld	5659
AirLoc Corp	5769	Belmont Equipment & Technologies	1248	CEIA USA Induction Heating Systems	1243
Ajax Tocco Magnethermic Corp	1026	BENZ Incorporated	5544	Centaur Precision Tools Inc	5512
AKS Cutting Systems Inc	1846	Big Kaiser Precision Tooling Inc	5248	CERATIZIT USA Inc	5263
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Chumpower Machinery Corp	5770
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Cincinnati Inc	1844
City of Bristol CT	5871
Clamptek USA Inc	5684
Cleaning Technologies Group	3219
CMS North America Inc	1842
CNC Systems Inc	1328
Comco Inc	5545
Conley Casting Supply Corp	5739
Contour360	5559
Control Gaging Inc	3224
Controx Inc	5571
Cool Grind Technologies	1745
Cosen Saws	2142
CPU Automation Inc	3145
Crest Ultrasonics Corp	3058
Cubic Machinery Inc	1021
Curbell Plastics Inc	5771
Current EDM Inc	1255
Custom Service Solutions Inc	3218
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Cutting Tool Engineering Magazine	3315
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Dapra Marking Systems	2037
Darex LLC	5676
Datron Dynamics Inc	5240
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3317

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Diacut Inc	3226	ESPRIT/DP Technology Corp	5259	GF Machining Solutions	1420
Digipas Technologies Inc	5340	Eureka Chemical Co	3243	GH Induction Atmospheres LLC	2033
Dillon Chuck Jaws	5537	Euro-Tech Corp	5336	Gibson Engineering Co Inc	3045
Dino-Lite Scopes (BigC)	3143	Everede Tool Company	5649	GKS Lifting and Moving Solutions LLC	3325
DISCUS Software Company	3238	Fabricating & Metalworking Magazine	3321	GMA Garnet	1719
DoALL Sawing Products	2133	Factory Cat	3339	Godex International Americas	5622
Doringer Cold Saws	2035	Fagor Automation Corp	2123	Gradient Lens Corporation	3150
Dorsey Metrology International Inc	3119	FANUC America Corp	1018	Greenleaf Corp	5317
DuBois Chemicals Inc	5449	FARO Technologies Inc	3135	Griffo Brothers Inc	5034
Dynabrade Inc	5677	Fastenal Company	5575	Grobet USA	5520
Dynamic International	1454	Faxon Engineering	1768	GTI Spindle Technology Inc	5562
ECM Global Measurement Solutions	3008	Fimor NA	5363	Guhring Inc	5333
Ebbco Inc	1727	Fischer Technology Inc	5738	GWS Tool Group	5621
ECi Software Solutions	5532	Fisher Unitech LLC	5054	Haas Factory Outlet - Trident	1218
Eclipse Magnetics	3022	Fitz-Rite Products Inc	5645	Haas Multigrind	1051
Ecoclean Inc	3019	Fixtureworks	5766	Haimer USA	5458
Edac Technologies	5553	FlexArm Inc	5541	Halder Inc	5427
Edge Technologies	1348	Flexbar Machine Corp	3157	Hangsterfer's Laboratories Inc	5632
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EIGHT TOOL America	5647	FOBA Laser Marking + Engraving I Alltec GmbH	3341	Hardinge Inc	5444
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Elm Electrical	1852	Fowler High Precision Inc	3251	Harvey Industries International Inc	3343
EM Benson Co	5141	Fronius USA LLC	1737	HASCO America Inc.	5010
EMAG LLC	1045	Front Panel Express	5568	Hassay Savage Co	5774
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ENCON Evaporators	5421	Fullerton Tool Co	5736	Hayden Corp	5827
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Ensitech Inc	5758	Modern Machine Shop	5746	Heidenhain Corp	1634
Epicor Software Corp	3240	General Manufacturing Inc	1863	Hemel Engineering Products Inc	3207
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Hermann Schmidt Co	1723	Johnson Gage Co	3042	LS Industries Inc	3043
HEULE Precision Tools	5385	Toyoda Americas Corporation	1034	Lubrication Technologies Inc	5737
Hexagon Manufacturing Intelligence	3103	Judge Tool & Gage	3138	Lucifer Furnaces Inc	2003
High QA, Inc	341	KAAST Machine Tools Inc	2134	Lyndex-Nikken Inc	5533
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Hiwin Corporation	3034	Kalow Technologies	5821	Macdac Engineering	5233
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HORN USA Inc	5353	Keller Products Inc	3057	Magido USA	1838
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igus Inc	5852	Kolver	5619	Marubeni Citizen Cincom	1406
IMS USA LLC	5727	Koma Precision Inc	5359	Mastercam/CNC Software Inc	5249
INIRAM Precision Machine Tool Inc	1468	KSI Swiss	1640	Matterhackers	5848
InnovMetric Software Inc	3244	Kyocera Precision Tools Inc	5573	MAXTOOL CORP.	5002
InspectionXpert Corporation	5865	Kyzen Corporation	3027	MB Metal Technologies LLC	2009
Internal Tool	5853	L.F.O'LEARY CO.INC/GLASTONBURY SOUTHERN GAGE	3254	Mitsubishi EDM / MC Machinery Systems Inc	1426
Ironclad Machinery LLC.	1064	Lamothermic Corp	5614	MCRL Inc / Fluid Chillers	1001
iSwiss Corporation	5616	Lang Technovation Co	5483	Melin Tool Company	5618
item Northeast	1861	Laroche Foundry Ltd	5362	Metallurgical Processing Inc	5724
J & L Metrology Inc	3255	Laser Marking Technologies LLC	2029	MetalMizer	1814
J&S Machine Inc	5820	Laser Measuring Technologies LLC	3122	Methods Machine Tools Inc	2034
Japan Machine Tools Corp	1052	LaserStar Technologies Corp	2100	Metrologic Group Services	3228
JAYCO Cleaning Technologies	5832	Liberty Packaging Co	3227	Metronor Inc	3127
Jergens Inc	5644	LillyWorks Scheduling & ERP Software	5763	Northeast Machinery Sales/FlexCNC	1228
Jet Edge	1770	Lindco Springfield Co	1118	MIDACO Corp	1858
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Exhibitor

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Marksman represented by Millennium Signatures Marking Systems Inc	3305	Northland Tool & Electronics	5828	Plastics International	5366
Millinocket Fabrication & Machine LLC	2126	NSF International Strategic Registrations	2141	Platinum Tooling	5146
Minuteman / Empire Automation Systems	3301	NSK America Corp	5344	Platit US	5058
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Mitsubishi Electric Automation Inc	1140	Numberall Stamp & Tool Co	1142	Polyrix Inc	3129
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Mitutoyo America Corp	3111	OASIS Inspection Systems	3050	Praxair Distribution Inc.	1606
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Nagel Precision Inc	5850	Omega TMM Inc.	5127	Production Metals	1870
NESSteel Inc	5033	Omni Services	5612	ProShop ERP	584
New England Metal Finishing & Precision Finishing Services	5136	OPEN MIND Technologies USA Inc	5228	Proto Labs Inc	5752
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New Scale Robotics	2139	Osaap America	1132	Quality Plus Inc	3241
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Rigaku Analytical Devices	3319	SLM Solutions NA Inc	5733	TE-CO	5463
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Rock Ridge Abrasives	5743	SMW Autoblok Corp	2013	The Hope Group	5858
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Rush Machinery	1129	Starrett Company	3011	TRUMPF Inc	2004
Saacke North America LLC	1156	Starrett Company	5045	Turpin Sales & Marketing Inc	5570
Sanken Industry Co. Ltd.	5749	Stor-Loc Corp	5712	TW Metals	5674
Saturn Industries Inc	1237	Strong Hand Tools	5627	Two Technologies Inc	3326
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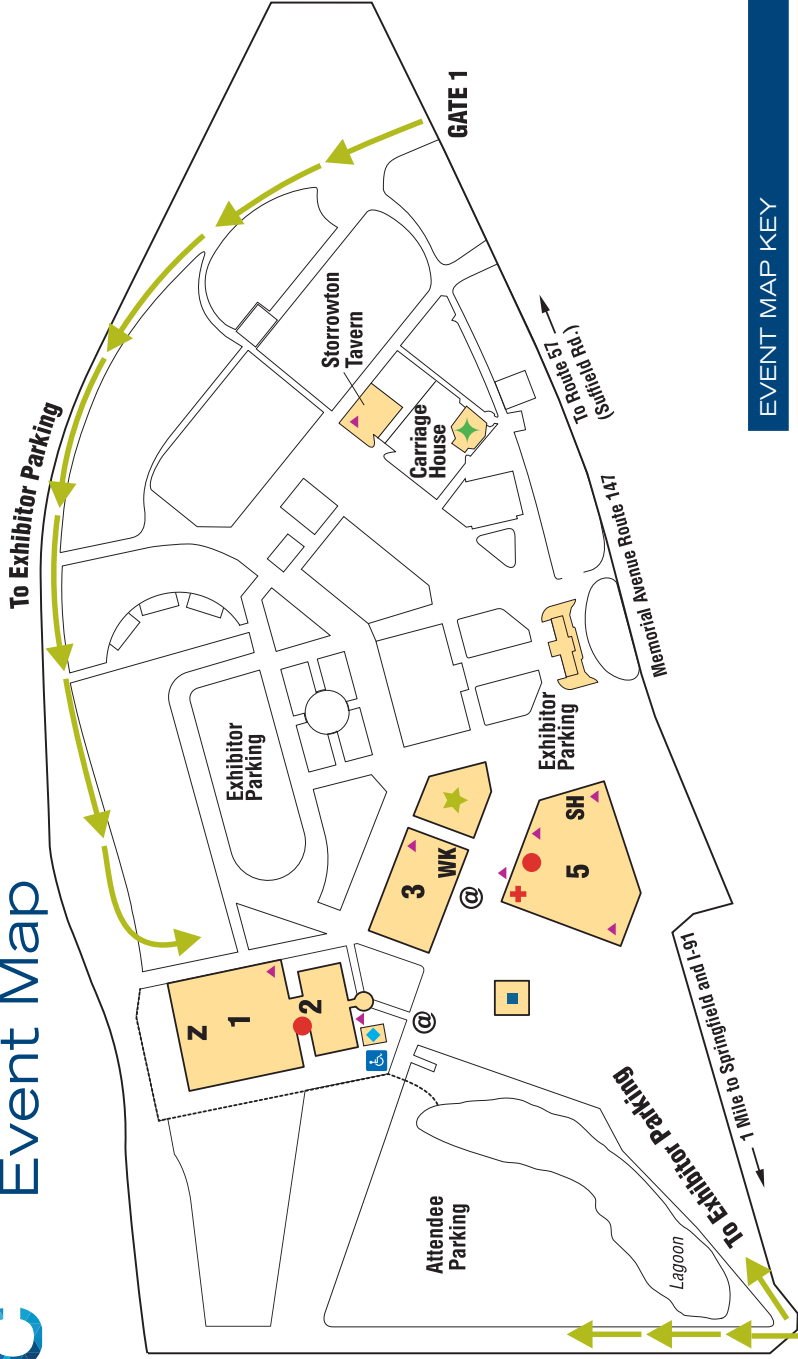
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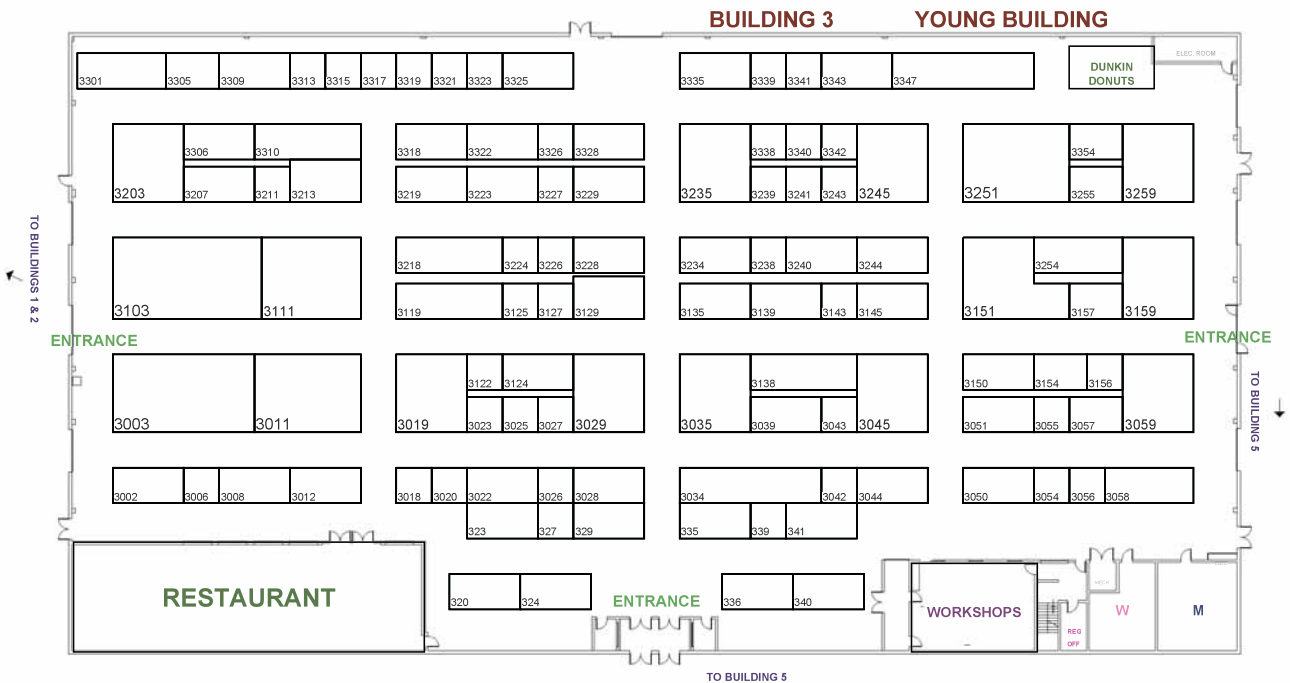
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Exhibits (1000-1999)
→ Precision Manufacturing Equipment & Systems
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▲ Food Concessions

- Building 3: Young**
Exhibits (3000-3999)
→ Automation, Quality & Process Improvement
→ Plant, Energy & Environmental Efficiency
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▲ Westside Grill Restaurant
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- Building 5: Better Living Center**
Exhibits (5000-5999)
→ Design, Engineering & Additive Manufacturing/3D Printing
→ Tooling, Workholding & Machining Accessories
▲ Glass House Restaurant, Dunkin Donuts & Food Concessions

EVENT MAP KEY

- 1, 2, Exhibits 3, 5**
◆ Needs to Register, Exhibitor Registration, Lead Retrieval Pick-up
■ Already Registered
★ Student Summit
▲ Food
◆ Additive Manufacturing Seminar
● Show Office & Information Desks
+ First Aid
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Advance Welding	5870	Gentiger Machinery		Northfield Precision	
Advanced Machine & Engineering	5843	Industrial Co. Ltd	1061	Instrument Corp	5508
Aimtek Inc	2108	GF Machining Solutions	1420, 1620	NTK Cutting Tools	5564
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Amada Machine Tools America	1754	GWS Tool Group	5621	OPEN MIND Technologies USA Inc	5228
Allied Machine & Engineering	5453	Haimer USA	5458	Phillips Precision Inc	3342
Alpha Laser - US	2105	Halder Inc	5427	Pocket NC Company	5008
Amada Miyachi America	2101	Harvey Industries International Inc	3343	ProShop ERP	5847
ANCA Inc	1244	HASCO America Inc.	5010	QAD Inc	1869
ARCH Cutting Tools	5666	HEULE Precision Tools	5385	Quality Vision International	3003
Atlas Copco Tools/Palpac Co Inc	1134	HPM Technologie Gmbh	5765	R&R Fixtures LLC	3318
AutoForm Engineering USA Inc	5467	Jergens Inc	5644	Rigaku Analytical Devices	3319
Automation Engineering Co	5759	JH Robotics Inc	1462	Sanken Industry Co. Ltd.	5749
Axis New England	3328	KAAST Machine Tools Inc	2134	ShopFloorConnect	5668
BENZ Incorporated	5544	Kolver	5619	Sir Meccanica SpA	5445
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& Workholding Systems LLC	5734	Liberty Packaging Co	3227	Starrett Company	3011, 5045
Cambridge Vacuum Engineering	5857	Magido USA	1118, 1838	Strong Hand Tools	5627
Caron Engineering Inc	5432	Makino Inc	1236	Suhner Industrial Products Inc	5020
Chambrelan SAS	2130	Methods Machine Tools Inc	2034	SW North America Inc	1726
Chumpower Machinery Corp	5770	MIDACO Corp	1858	Syil America Inc	1808
Cincinnati Inc	1844	Mikron Corp Monroe	5426	The Hope Group	5858
Clamptek USA Inc	5684	Mitsubishi EDM/MC Machinery		The Robert E Morris Company	5464
Cool Grind Technologies	1745	Systems Inc	1426	THINBIT/Kaiser Tool Co	5348
Crest Ultrasonics Corp	3058	Marksman represented by Millennium		Turpin Sales & Marketing Inc	5570
Curbell Plastics Inc	5771	Signatures Marking Systems Inc	3305	TYKMA ElectroX	3035
Datron Dynamics Inc	5240	Mirka	1711	Vollmer Of America	1158
DoALL Sawing Products	2133	Mitee-Bite Products LLC	5459	Winslow Engineering Inc	2109
Emuge Corp	5369	Mitsubishi Materials USA	5468	Zimmermann Inc	2137
Epicor Software Corp	3240	MP Systems	5368	Zircar Refractory Composites	5822
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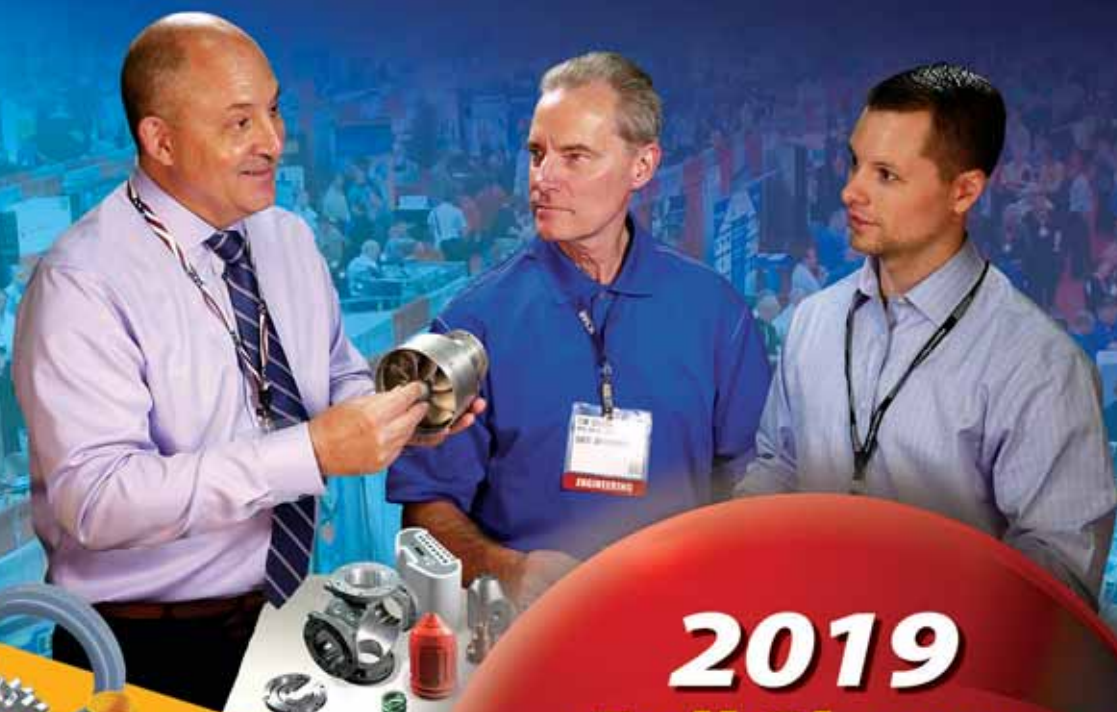
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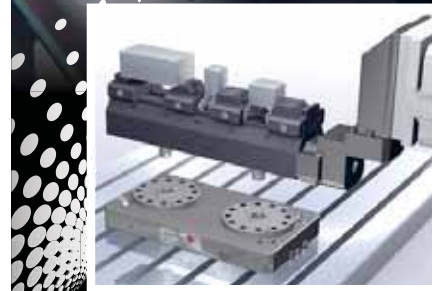
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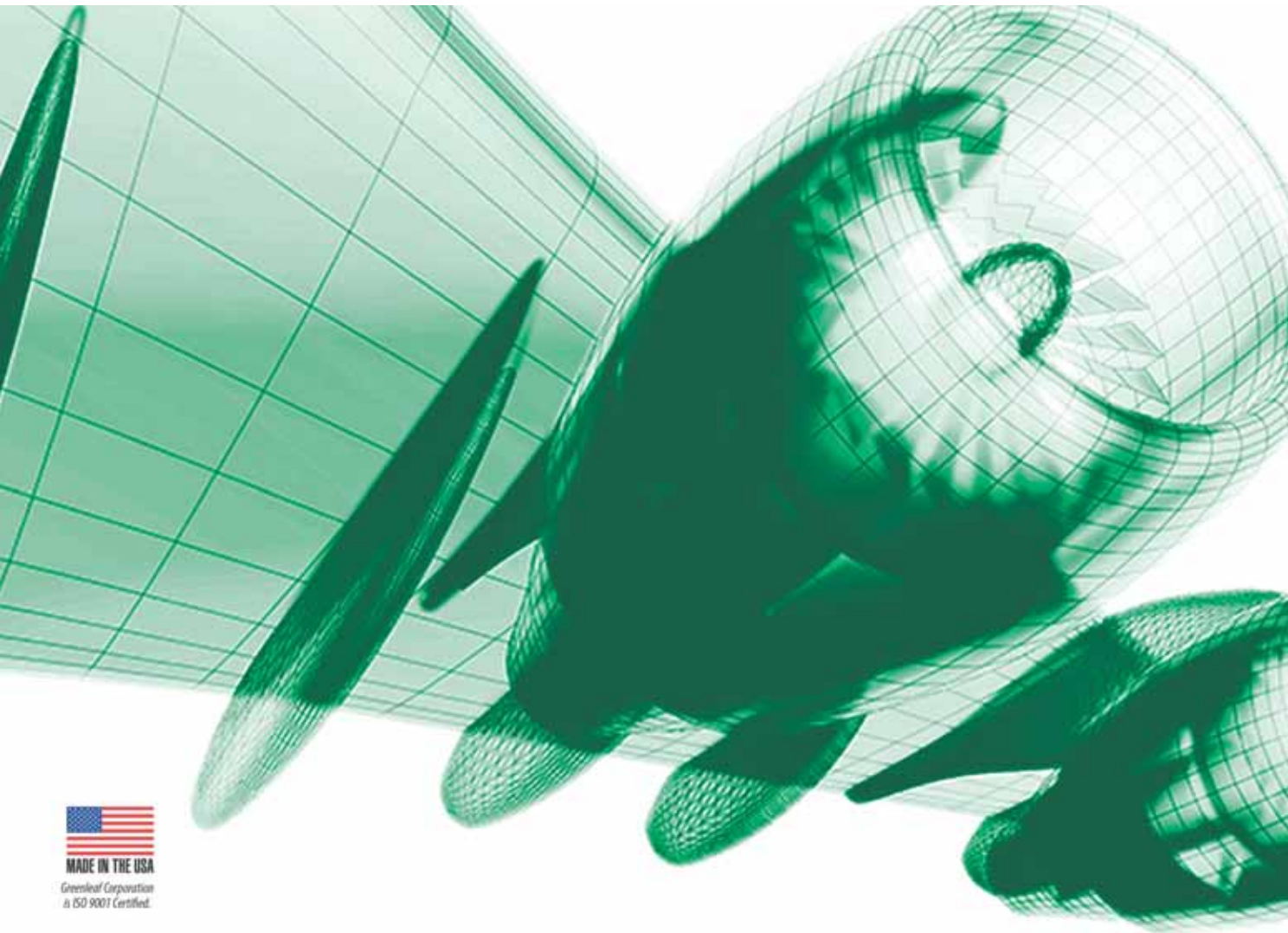


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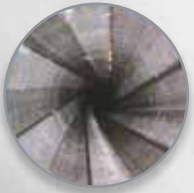
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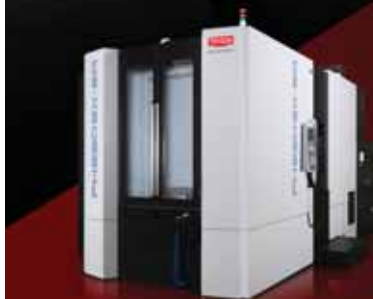
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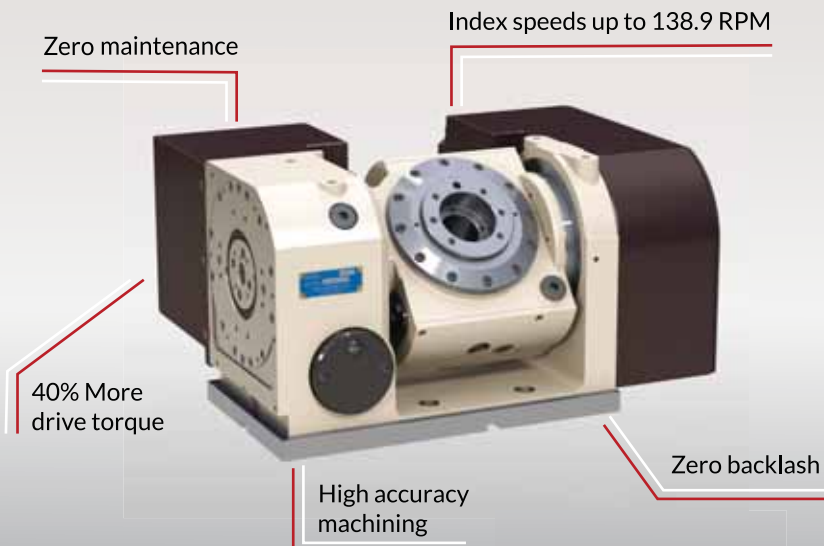


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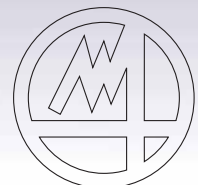
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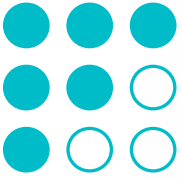
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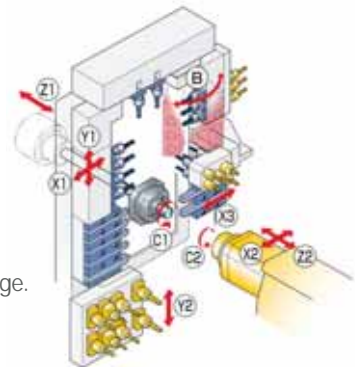
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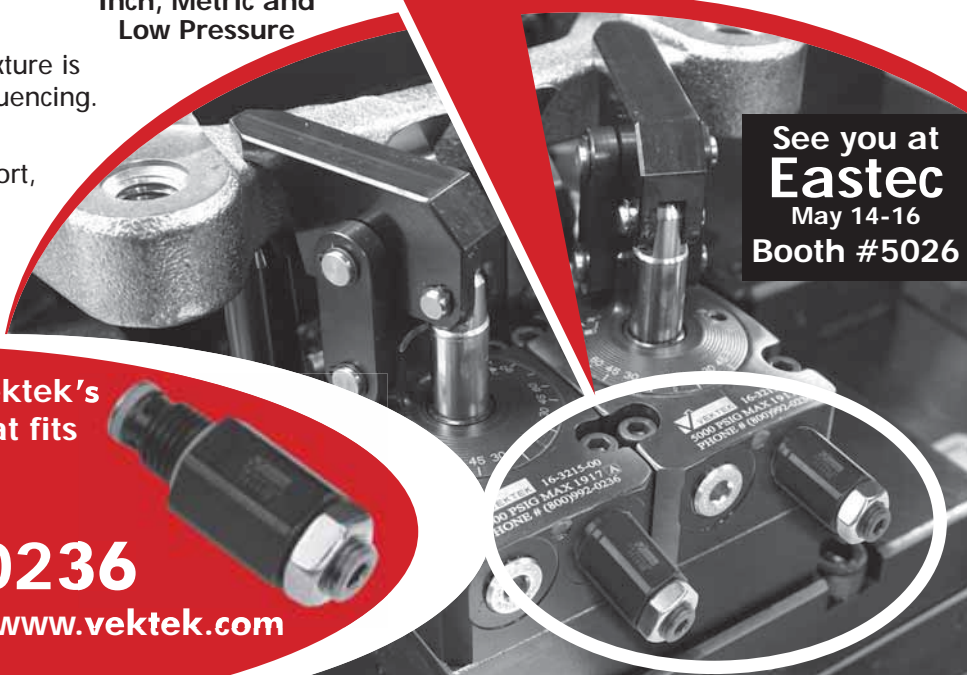
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Balancing Equipment

BlackHawk / Kennametal	5563
Control Gaging Inc	3224
G II Solutions Inc	1253
GTI Spindle Technology Inc	5562
Haimer	1118
Haimer USA	5458
Kolver	5619
REGO-FIX Tool Corp	5320
Rollomatic Inc	1706
Rush Machinery	1129

Ball/Lead Screws & Repair Service

Action Bearing Co	5514
Alpine Bearing Co	5669
GTI Spindle Technology Inc	5562
Hiwin Corporation	3034
New England Miniature Ball	5364
Paletti USA	3239

Bar Feeders

Ajax Tocco Magnethermic Corp	1026
Edge Technologies	1348
HEM Inc	2038
Marubeni Citizen Cincom	1406
Star CNC Machine Tool Corp /	
Eurotech Elite	1444
Yuasa International	1748

Bearings

ABTech Inc	3012
Action Bearing Co	5514
Advanced Machine & Engineering	5843
Alpine Bearing Co	5669
Chambrelan SAS	2130
Fixtureworks	5766
GTI Spindle Technology Inc	5562
HASCO America Inc.	5010
Hirschmann Engineering USA Inc	1231
Hiwin Corporation	3034
Laroche Foundry Ltd	5362
New England Miniature Ball	5364
Northland Tool & Electronics	5828
W T Hight CO	3338
Wickman Machine Tool Inc	1822

Bending

Advance Welding	5870
Cincinnati Inc	1844
CLOMEA / 3C	5820
Ercolina - CML USA Inc	1753
J&S Machine Inc	5820
KAASST Machine Tools Inc	2134
Millinocket Fabrication & Machine LLC	2126
Mitsubishi EDM / MC Machinery Systems Inc	1426
Northeast Machinery Sales/FlexCNC	1228
Omni Services	5612
Proto Labs Inc	5752
Rapid Air	5523
Sanken Industry Co. Ltd.	5749
SIMASV	5820
Tapeswitch Corporation	336
TRUMPF Inc	2004

Vance Metal Fabricators Inc	1824
YLM	5820

Boring Machines

American Systems & Equipment Corp	1022
Brooks Assoc Inc	1206
Dynamic International	1454
Edac Technologies	5553
Hannsa Precision	1027
KAASST Machine Tools Inc	2134
Kays Engineering/DeHoff/Eldorado	1612
Kgk International Corp	1662
Methods Machine Tools Inc	2034
Millinocket Fabrication & Machine LLC	2126
Racer Machinery International Inc	1638
Ross Machinery Sales Inc	1620
Sir Meccanica SpA	5445
Standard Modern Lathes	1638
Toshiba Boring Mills	1662
Toyoda Americas Corporation	1034
Yamazaki Inc	1005

Boring Tools Bars Heads

Allied Machine & Engineering	5453
ARCH Cutting Tools & Beamer Laser Marking Systems	5666
Big Kaiser Precision Tooling Inc	5248
BlackHawk / Kennametal	5563
Carmex Precision Tools LLC	5016
Ceratizit	1118
Cutler Industrial Sales	5469
EM Benson Co	5141
Fullerton Tool Co	5736
Genevieve Swiss Industries Inc	5133
Greenleaf Corp	5317
Guhring Inc	5333
heimatec GmbH	5146
HORN USA Inc	5353
Internal Tool	5853
iSwiss Corporation	5616
Kycocera Precision Tools Inc	5573
Lindco Springfield Co	1118
Lovejoy Tool Co	5242
MAPAL Inc	5327
Mitsubishi Materials USA	5468
NTK Cutting Tools	5564
OSG USA INC	5652
Platinum Tooling	5146
REGO-FIX Tool Corp	5320
Sandvik Coromant	1118
Scientific Cutting Tools Inc	5224
THINBIT	5348
Tool-Flo Manufacturing Inc	5519
Vollmer Of America	1158

Brazing & Soldering Equipment

Aimtek Inc	2108
Ajax Tocco Magnethermic Corp	1026
Ambrell Induction Heating Solutions	2008
CEIA USA Induction Heating Systems	1243
Faxon Engineering	1768
GH Induction Atmospheres LLC	2033
Hardline Heat Treating Inc	2011
LaserStar Technologies Corp	2100
Lynn Welding	2027
Purex Inc	2102
Radyne Corp	1102

Taylor-Winfield Technologies Inc	2107
Ultraflex Power Technologies Corp	1138

Broaching Equipment

Perry Technology Corp	5623
Somma Tool Co	5542
Takachiho America Inc.	5741

Brushes

BlackHawk / Kennametal	5563
Brush Research Manufacturing Co	5608
stratus technologies	5743

Buffing Compounds

BlackHawk / Kennametal	5563
Burr King Manufacturing Co	1713
Gesswein Co	5653
Mikro Industrial Finishing Co	5440

Burnishing Honing Lapping Tools

BlackHawk / Kennametal	5563
Engis Corp	5028
Gesswein Co	5653
Lindco Springfield Co	1118
Sunnen Products Co	2111

Calibration Equipment & Services

ABTech Inc	3012
ATAGO USA Inc	5745
Blum-Novotest, Inc.	5432
Dorsey Metrology International Inc	3119
ECM Global Measurement Solutions	3008
Electronic Service Products	1620
Fastenal Company	5575
Fischer Technology Inc	5738
Flexbar Machine Corp	3157
Fowler High Precision Inc	3251
Glastonbury Southern Gage Thread & Cylindrical Gages And Masters	3254
GTI Spindle Technology Inc	5562
Holts Precision Inc	3156, 5419
J & L Metrology Inc	3255
Johnson Gage Co	3042
Kolver	5619
L.F.O'leary Co.Inc/ Glastonbury Southern Gage	3254
Laser Measuring Technologies LLC	3122
Metrologic Group Services	3228
Mitutoyo America Corp	3111
Nikon Metrology Inc	3203
Pinpoint Laser Systems	3054
Pratt & Whitney Measurement Systems Inc	3006
Quality Plus Inc	3241
Renishaw Inc	3151
Rollomatic Inc	1706
Starrett Company	3011, 5045
Thermo Fisher Scientific	339
Verisurf Software Inc	5050
Wenzel America Ltd	3223

Castings

Conley Casting Supply Corp	5739
Laroche Foundry Ltd	5362
Millinocket Fabrication & Machine LLC	2126
Okamoto Corp	1044
VJ Technologies Inc	5835

Ceramic Components & Materials

Aimtek Inc	2108
Poco Graphite	1227

Chamfering Tools

Allied Machine & Engineering	5453
ANCA Inc	1244
ARCH Cutting Tools & Beamer Laser Marking Systems	5666
Big Kaiser Precision Tooling Inc	5248
BlackHawk / Kennametal	5563
Carbide Related Technologies, Inc.	5765
Carmex Precision Tools LLC	5016
Contour360	5559
Datron Dynamics Inc	5240
Fitz-Rite Products Inc	5645
Flexbar Machine Corp	3157
Fullerton Tool Co	5736
Genevieve Swiss Industries Inc	5133
Guhring Inc	5333
GWS Tool Group	5621
Hassay Savage Co	5774
HEULE Precision Tools	5385
HORN USA Inc	5353
Internal Tool	5853
Kyocera Precision Tools Inc	5573
Lexington Cutter	5469
Lindco Springfield Co	1118
Link Industries	5826
Lovejoy Tool Co	5242
Maxtool Corp.	5002
Mikron Corp Monroe	5426
Mitsubishi Materials USA	5468
Nexgen Tooling	5747
OG Bell Co	5767
OSG USA INC	5652
Scientific Cutting Tools Inc	5224
SIMTEK USA Inc.	5636
Thinbit	5348
Vollmer Of America	1158

Chuck Jaws & Collets

Belmont Equipment & Technologies	1248
Centaur Precision Tools Inc	5512
Edge Technologies	1348
EM Benson Co	5141
H & R	5469
Hardinge Inc	5444
Huron Machine Products	5000
iSwiss Corporation	5616
Jergens Inc	5644
Kitagawa-NorthTech Inc.	1152
Koma Precision Inc	5359
Northfield Precision Instrument Corp	5508
Platinum Tooling	5146
Rollomatic Inc	1706
Royal Products	5469
Samchully Workholding	5469
Schunk Inc	5433

SMW Autoblok Corp	2013
Somma Tool Co	5542
Southwick & Meister Inc	5387
Tecnicrafts	5146
US Shop Tools	5609
Wickman Machine Tool Inc	1822
Yuasa International	1748

Chucks

ABTech Inc	3012
Babin Machine Tool	1743
Belmont Equipment & Technologies	1248
Big Kaiser Precision Tooling Inc	5248
Chumpower Machinery Corp	5770
Emuge Corp	5369
Erowa Technology Inc	1628
FlexCNC	1228
H & R	5469
Hardinge Inc	5444
Hermann Schmidt Co	1723
Huron Machine Products	5000
Jergens Inc	5644
Kitagawa-NorthTech Inc.	1152
Koma Precision Inc	5359
Lang Technovation Co	5483
Lyndex-Nikken Inc	5533
Mapal Inc	5327
Mitee-Bite Products LLC	5459
Northfield Precision Instrument Corp	5508
R&R Fixtures LLC	3318
Rollomatic Inc	1706
Royal Products	5469
Samchully Workholding	5469
Schunk Inc	5433
SMW Autoblok Corp	2013
Triag	5843
US Shop Tools	5609
Walker Magnetics	5543
Yuasa International	1748

Clamps Hydraulic

Action Bearing Co	5514
Advanced Machine & Engineering	5843
Carr Lane Manufacturing/ Carr Lane Roemheld	5659
Clamptek USA Inc	5684
Emuge Corp	5369
Faxon Engineering	1768
Jergens Inc	5644
Koma Precision Inc	5359
Mitee-Bite Products LLC	5459
Northfield Precision Instrument Corp	5508
PAWS Workholding	5866
Roemheld	5661
Schunk Inc	5433
Strong Hand Tools	5627
Triag	5843
Vekttek LLC	5026

Clamps Pneumatic

Air Inc	3039
Belmont Equipment & Technologies	1248
Carr Lane Manufacturing/ Carr Lane Roemheld	5659
Clamptek USA Inc	5684
Emuge Corp	5369
Faxon Engineering	1768
Fixtureworks	5766
Hirschmann Engineering USA Inc	1231

Jergens Inc	5644
Koma Precision Inc	5359
Northfield Precision Instrument Corp	5508
Phillips Precision Inc	3342
Rollomatic Inc	1706
Schunk Inc	5433
Strong Hand Tools	5627
Triag	5843
Vekttek LLC	5026

Clamps Spring

Carr Lane Manufacturing/ Carr Lane Roemheld	5659
Fixtureworks	5766
H & R	5469
Hirschmann Engineering USA Inc	1231
Jergens Inc	5644
Phillips Precision Inc	3342
R&R Fixtures LLC	3318
Roemheld	5661
Schunk Inc	5433
SMW Autoblok Corp	2013
Strong Hand Tools	5627
Triag	5843

Cleaning & Pretreatment Equipment

Blast & Wash Systems	5509
Blast it All	5509
Branson Ultrasonics Corp	3235
Brush Research Manufacturing Co	5608
Chemetall US Inc	3234
Cleaning Technologies Group	3219
Comco Inc	5545
Crest Ultrasonics Corp	3058
Cutler Industrial Sales	5469
DuBois Chemicals Inc	5449
Ecoclean Inc	3019
Ensitech Inc	5758
Factory Cat	3339
Garboli	5820
Gibson Abrasive Equipment	5509
J&S Machine Inc	5820
JRI/JenFab Wash Systems	5509
Ketcham & Co Inc	3306
Kyzen Corporation	3027
LS Industries Inc	3043
Lucifer Furnaces Inc	2003
Magido USA	1118, 1838
Mikro Industrial Finishing Co	5440
New England Metal Finishing & Precision Finishing Services	5136
New England Sales Inc	2026
NITCO Industrial Cleaning Equipment & Commercial Products	3002
Pauway Corp	5549
Pro Ultrasonics	3055
stratus technologies	5743
Unist	5523
Vapor Honing Technologies	5509

CNC Controls & Accessories

Axis New England	3328
Babin Machine Tool	1743
Carlson Fabrication Solutions	2128
Datron Dynamics Inc	5240
Digipas Technologies Inc	5340
Electronic Service Products	1620

Fagor Automation Corp	2123
FANUC America Corp	1018
G II Solutions Inc	1253
Heidenhain Corp	1634
Kitagawa-NorthTech Inc.	1152
Matterhackers	5848
Mitsubishi Electric Automation Inc	1140
Nexas America LLC	5527
Quality Vision International	3003
Rice Machinery Inc	1734
Rollomatic Inc	1706
Siemens Industry Inc	2012
SpiderCool	1241
Syil America Inc	1808
Syntec Technology	5130
Trak Machine Tools	1434
Two Technologies Inc	3326
Zoller Inc	5436

Coating Equipment

Advanced Coating Service	5624
Aimtek Inc	2108
Cambridge Vacuum Engineering	5857
Noble Industrial Furnace	3354
Oerlikon Balzers Coating USA Inc	5567
Pauway Corp	5549
Purex Inc	2102
Unist	5523

Coatings

Advanced Coating Service	5624
Aimtek Inc	2108
Ajax Tocco Magnethermic Corp	1026
Alexandria Metal Finishers	5742
Anoplate Corp	5726
Armoly of Connecticut Inc	5246
Eureka Chemical Co	3243
Northeast Coating Technologies	5540
Pauway Corp	5549
Poco Graphite	1227
Precision Laser Technology LLC	3154
Tool-Flo Manufacturing Inc	5519

Composites

CGTech	5350
Curbell Plastics Inc	5771
NCSIMUL Hexagon Manufacturing Intelligence	5358
Plastics International	5366
Ultimaker	5732

Computer Services

Ecoclean Inc	3019
Nexas America LLC	5527

Computer-Aided Design (CAD)

Access Manufacturing Systems	5452
Air Inc	3039
Autodesk Inc	5326
Capture 3D Inc	3044
CGTech	5350
Cimquest Inc	5036
Dorsey Metrology International Inc	3119
ECM Global Measurement Solutions	3008

JH Robotics Inc	1462
Kalov Technologies	5821
Macdac Engineering	5233
Mastercam/CNC Software Inc	5249
Mastercam®	5233
NCSIMUL Hexagon Manufacturing Intelligence	5358
Precision Jig Fixture & Metrology	5831
Quality Vision International	3003
Siemens PLM Software	5338
Swoosh Technologies	5338
Verisurf Software Inc	5050

Computer-Aided Engineering Equipment

Capture 3D Inc	3044
CIMCO Americas LLC	5716
Geomagic	5036
InnovMetric Software Inc	3244
Vention	329

Computer-Aided Manufacturing (CAM)

3D Systems	5241
Access Manufacturing Systems	5452
Autodesk Inc	5326
Blum-Novotest, Inc.	5432
CAMWorks - World's most advanced CAM Software	5452
Capture 3D Inc	3044
CGTech	5350
Cimquest Inc	5036
ESPRIT/DP Technology Corp	5259
Griffo Brothers Inc	5034
InnovMetric Software Inc	3244
Macdac Engineering	5233
Mastercam	5036
Mastercam/CNC Software Inc	5249
Mastercam®	5233
NCSIMUL Hexagon Manufacturing Intelligence	5358
Open Mind Technologies USA Inc.	5228
Siemens Industry Inc	2012
Siemens PLM Software	5338
SolidWorks CAM - Powered by CAMWorks	5452
Swoosh Technologies	5338
Verisurf Software Inc	5050
Zoller Inc	5436

Computer-Integrated Manufacturing (CIM)

Access Manufacturing Systems	5452
Autodesk Inc	5326
AutoForm Engineering USA Inc	5467
Capture 3D Inc	3044
CIMCO Americas LLC	5716
Dassault Systemes	5233
Macdac Engineering	5233
NCSIMUL Hexagon Manufacturing Intelligence	5358
Verisurf	5036
VJ Technologies Inc	5835
WireFreeCNC	5233

**Consulting & Training
Statistical Analysis**

Cool Grind Technologies	1745
ECM Global Measurement Solutions	3008
Hexagon Manufacturing Intelligence	3103
High QA, Inc	341
Holts Precision Inc	3156, 5419
Metrologic Group Services	3228
The Custom Group Center For Manufacturing Technology	5582
Verisurf Software Inc	5050

Consulting Services

Acorn Industrial Products Co	5415
Ecoclean Inc	3019
Faxon Engineering	1768
JH Robotics Inc	1462
Lubrication Technologies Inc	5737
MCRL Inc / Fluid Chillers	1001
Nexas America LLC	5527
R & D Technologies	5776
Scytec Consulting Inc.	5527
Swoosh Technologies	5338
The Joseph Freedman Co Inc	1772
Tooling U-SME	1164
TribalVision	327
VJ Technologies Inc	5835

Contract Assembly

Acorn Industrial Products Co	5415
Air Inc	3039
Alpha Additive Manufacturing Technologies	5615
Dorsey Metrology International Inc	3119
ECM Global Measurement Solutions	3008
Faxon Engineering	1768
GKS Lifting and Moving Solutions LLC	3325
Hygrade Precision Technologies	5566
Kalow Technologies	5821
Lynn Welding	2027
Minuteman / Empire Automation Systems	3301
Pauway Corp	5549
Pearse-Bertram LLC	3245
Winslow Engineering Inc	2109

Contract Inspection

Accurex Measurement Inc	3139
Capture 3D Inc	3044
ECM Global Measurement Solutions	3008
Hexagon Manufacturing Intelligence	3103
Holts Precision Inc	3156, 5419
J & L Metrology Inc	3255
Johnson Gage Co	3042
Kalow Technologies	5821
L.F.O'leary Co.Inc/ Glastonbury Southern Gage	3254
Nikon Metrology Inc	3203
Perry Technology Corp	5623
Pratt & Whitney Measurement Systems Inc	3006
Precision Jig Fixture & Metrology	5831
Proto Labs Inc	5752
Quality Plus Inc	3241
Wenzel America Ltd	3223
Werth Inc	3213
Winslow Engineering Inc	2109
ZEISS Industrial Metrology	3159

Contract Machining

Advanced Machine & Engineering	5843
Aerospace Alloys Inc	5729
Alpha Grainger Manufacturing	5683
Conley Casting Supply Corp	5739
Dorsey Metrology International Inc	3119
Edac Technologies	5553
Electrodes Inc	1128
Front Panel Express	5568
Hawkeye Innovation LLC	5838
HPM Technologie GmbH	5765
Hygrade Precision Technologies	5566
JH Robotics Inc	1462
Laroche Foundry Ltd	5362
Lynn Welding	2027
Mach 1 Systems Inc	1725
Millinocket Fabrication & Machine LLC	2126
Nagel Precision Inc	5850
Perry Technology Corp	5623
Peterson Steel Corp	5558
Plastics International	5366
Precision Jig Fixture & Metrology	5831
Precision Laser Technology LLC	3154
Precision Punch Corp	5633
Preco Inc	5237
Proto Labs Inc	5752
Ram Precision Tool Inc	1626
Saturn Industries Inc	1237
TCl Precision Metals	5030
The Joseph Freedman Co Inc	1772
Yamazen Inc	1005

**Contract Manufacturing
Services**

Acorn Industrial Products Co	5415
Advance Welding	5870
Advanced Machine & Engineering	5843
Aerospace Alloys Inc	5729
Alpha Grainger Manufacturing	5683
Aquajet Cutting Technology	1654
Automation Engineering Co	5759
Dapra Marking Systems	2037
Dorsey Metrology International Inc	3119
Edac Technologies	5553
Front Panel Express	5568
GH Induction Atmospheres LLC	2033
Hawkeye Innovation LLC	5838
Hygrade Precision Technologies	5566
J & L Metrology Inc	3255
Kalow Technologies	5821
Laroche Foundry Ltd	5362
Laser Measuring Technologies LLC	3122
Lynn Welding	2027
Mach 1 Systems Inc	1725
Millinocket Fabrication & Machine LLC	2126
Minuteman / Empire Automation Systems	3301
Pauway Corp	5549
Pearse-Bertram LLC	3245
Perry Technology Corp	5623
Plastics International	5366
Precision Laser Technology LLC	3154
Preco Inc	5237
Proto Labs Inc	5752
Ram Precision Tool Inc	1626
Sanken Industry Co. Ltd.	5749
Solar Atmospheres	1251
TCl Precision Metals	5030
Vision Engineering Inc	3322
Yamazen Inc	1005

Controls

Antaira	3145
Axis New England	3328
Babin Machine Tool	1743
Conley Casting Supply Corp	5739
Copley Controls	3328
CPU Automation Inc	3145
Elm Electrical	1852
Fagor Automation Corp	1623
Heidenhain Corp	1134
Hiwin Corporation	3034
Mitsubishi Electric Automation Inc	1140
Omron	3328
Pearse-Bertram LLC	3245
Quality Vision International	3003
Rice Machinery Inc	1734
Sanyo Denki	3145
Siemens Industry Inc	2012
Syil America Inc	1808
Syntec Technology Inc	5130
The Hope Group	5858
Two Technologies Inc	3326
Unitronics	3145
Walker Magnetics	5543

**Conveyors & Conveying
Systems**

Air Filtration Systems	3059
Air Inc	3039
Airline Hydraulics Corp	1820
Ajax Tocco Magnethermic Corp	1026
Amada Machine Tools America	1754
Amada Marvel Inc	2114
Automation Engineering Co	5759
Deluxe Systems	3340
Dorner Mfg	5523
Elm Electrical	1852
Ergotronix Inc	5144
Gibson Engineering Co Inc	3045
HEM Inc	2038
JH Robotics Inc	1462
Jorgensen Conveyors, Inc.	5759
Kalow Technologies	5821
LS Industries Inc	3043
Mayfran	5469
Mikro Industrial Finishing Co	5440
Minuteman / Empire Automation Systems	3301
Paletti USA	3239
Stamptech Inc	5523
Star CNC Machine Tool Corp / Eurotech Elite	1444
Takachiho America Inc.	5741
Taylor-Winfield Technologies Inc	2107
Vention	329
Wickman Machine Tool Inc	1822

Coolants & Lubricants

Action Bearing Co	5514
Amada Machine Tools America	1754
ATAGO USA Inc	5745
BlackHawk / Kennametal	5563
Blaser Swisslube Inc	5648
Blaser-Swisslube	1118
Butler Bros	5637
Carbide Related Technologies, Inc.	5765
Chemetal US Inc	3234
Custom Service Solutions Inc	3218
Dennison Lubricants	5662
DoALL Sawing Products	2133

Doringer Cold Saws	2035
DuBois Chemicals Inc	5449
EM Benson Co	5141
Fastenal Company	5575
Hangsterfer's Laboratories Inc	5632
HEM Inc	2038
Houghton International Inc	5560
HPM Technologie GmbH	5765
Keller Products Inc	3057
Lubrication Technologies Inc	5737
MCRL Inc / Fluid Chillers	1001
Modern Tools Inc	1127
Shell Lubricants	5662
SpiderCool	1241
Summit	5662
Sunnen Products Co	2111
Turpin Sales & Marketing Inc	5570
Unist	5523
US Shop Tools	5609

Coolers & Chillers Non-Welding

Aimtek Inc	2108
Aquajet Cutting Technology	1654
Ebbco Inc	1727
Eclipse Magnetics	3022
Fluid Chillers	1001
MCRL Inc / Fluid Chillers	1001
Rittal Corp	5035
Star CNC Machine Tool Corp / Eurotech Elite	1444
The Robert E. Morris Company	5464
Walrus America Inc	5748

Curing Ovens & Equipment

Ajax Tocco Magnethermic Corp	1026
Blast & Wash Systems	5509
Hardline Heat Treating Inc	2011
Lucifer Furnaces Inc	2003
Noble Industrial Furnace	3354
Pauway Corp	5549
Purex Inc	2102
Radyne Corp	1102

Cutting Fluids & Lubricants

Amada Machine Tools America	1754
ATAGO USA Inc	5745
Blaser Swisslube Inc	5648
Blaser-Swisslube	1118
Carbide Related Technologies, Inc.	5765
Chemetall US Inc	3234
Dennison Lubricants	5662
DoALL Sawing Products	2133
DuBois Chemicals Inc	5449
Electrodes Inc	1128
EM Benson Co	5141
Eureka Chemical Co	3243
Fastenal Company	5575
Genevieve Swiss Industries Inc	5133
Hangsterfer's Laboratories Inc	5632
HEM Inc	2038
Houghton International Inc	5560
HPM Technologie GmbH	5765
Keller Products Inc	3057
Lindco Springfield Co	1118
Shell Lubricants	5662
SpiderCool	1241
Summit	5662
Unist	5523

Cutting Machines, Sheet & Plate Lasers

Airgas	1656
Boston Laser Tech	5722
Carlson Fabrication Solutions	2128
Chapin & Bangs Steel Co / Lindquist Steels Inc	5012
Cincinnati Inc	1844
Jinan Bodor CNC Machine Co Ltd	1146
LaserStar Technologies Corp	2100
Machitech Automation	1656
Mitsubishi EDM / MC Machinery Systems Inc	1426
Multicam East	1035
Northeast Machinery Sales/FlexCNC	1228
Preco Inc	5237
Purex Inc	2102
Rollomatic Inc	1706
SISMA USA Inc	2104
TRUMPF Inc	2004
Vance Metal Fabricators Inc	1824
Vytek Laser Systems	2022

Cutting Machines, Sheet & Plate Plasma

Airgas	1656
Cincinnati Inc	1844
Machitech Automation	1656
Multicam East	1035
Northeast Machinery Sales/FlexCNC	1228
Praxair Distribution Inc.	1606
Preco Inc	5237
Purex Inc	2102
Vance Metal Fabricators Inc	1824

Cutting Machines, Sheet & Plate Waterjet

Aerospace Alloys Inc	5729
Airgas	1656
Aquajet Cutting Technology	1654
Carlson Fabrication Solutions	2128
Flow International Corp	1712
Hypertherm	5743
Jet Edge	1770
KMT Waterjet Systems Inc	1344
Machitech Automation	1656
Multicam East	1035
Northeast Machinery Sales/FlexCNC	1228
OMAX Corp	1106
Praxair Distribution Inc.	1606
Preco Inc	5237
Stratus Technologies	5743

Cutting Tools High-Speed Steel

Allied Machine & Engineering	5453
Aloris Tool Technology Co Inc	5332
ANCA Inc	1244
ARCH Cutting Tools & Beamer Laser Marking Systems	5666
Big Kaiser Precision Tooling Inc	5248
BlackHawk / Kennametal	5563
Controx Inc	5571
Cutler Industrial Sales	5469
Darex LLC	5676
Diacut Inc	3226

Emuge Corp	5369
Everede Tool Company	5649
Fastenal Company	5575
Gebr. Saacke GmbH & Co. KG	1156
Guhring Inc	5333
Hassay Savage Co	5774
iSwiss Corporation	5616
Kyocera Precision Tools Inc	5573
Lexington Cutter	5469
Link Industries	5826
LMT Onsrud Tooling	1035
Mapal Inc	5327
Martindale Electric Co	5719
Maxtool Corp.	5002
Melin Tool Company	5618
Mikron Corp Monroe	5426
Mitsubishi Materials USA	5468
OG Bell Co	5767
OSG USA INC	5652
Somma Tool Co	5542
Starrett Company	3011, 5045
THINBIT	5348
Tru Tech Systems Inc	1830
US Tool Group Inc	5626
Vollmer Of America	1158
YG-1 Tool Co	5474

Cutting Tools Polycrystalline CBN & Diamond

Anca Inc	1244
Belmont Equipment & Technologies	1248
BlackHawk / Kennametal	5563
Butler Bros	5637
Ceratizit	1118
Contour360	5559
Diacut Inc	3226
Electrodes Inc	1128
EM Benson Co	5141
Emuge Corp	5369
Everede Tool Company	5649
Fullerton Tool Co	5736
Guhring Inc	5333
GWS Tool Group	5621
GWS/Benchmark Carbide	1118
Horn Usa Inc	5353
Internal Tool	5853
Kyocera Precision Tools Inc	5573
Lindco Springfield Co	1118
LMT Onsrud Tooling	1035
Lovejoy Tool Co	5242
Mapal Inc	5327
Maxtool Corp.	5002
Mikron Corp Monroe	5426
Mitsubishi Materials USA	5468
Multicam East	1035
NTK Cutting Tools	5564
OSG Usa Inc	5652
Radiac Abrasives	1118
Scientific Cutting Tools Inc	5224
Simtek Usa Inc.	5636
Starrett Company	3011, 5045
Sunnen Products Co	2111
THINBIT	5348
Tool-Flo Manufacturing Inc	5519
Tru Tech Systems Inc	1830
Vollmer Of America	1158
YG-1	1118
YG-1 Tool Co	5474

Cutting Tools Carbide

Allied Machine & Engineering	5453
Aloris Tool Technology Co Inc	5332
Alpha Grainger Manufacturing	5683
ANCA Inc	1244
ARCH Cutting Tools & Beamer Laser Marking Systems	5666
Big Kaiser Precision Tooling Inc	5248
BlackHawk / Kennametal	5563
Butler Bros	5637
Carbide Grinding Co Inc	5341
Carbide Related Technologies, Inc.	5765
Carmex Precision Tools LLC	5016
Ceratizit	1118
Contour360	5559
Controx Inc	5571
Cutler Industrial Sales	5469
Darex LLC	5676
Diacut Inc	3226
EM Benson Co	5141
Emuge Corp	5369
Everede Tool Company	5649
Fastenal Company	5575
Fullerton Tool Co	5736
Gebr. Saacke GmbH & Co. KG	1156
Genevieve Swiss Industries Inc	5133
Gesswein Co	5653
Greenleaf Corp	5317
Guhring Inc	5333
GWS Tool Group	5621
GWS/Benchmark Carbide	1118
Haimer USA	5458
Hassay Savage Co	5774
Heule Precision Tools	5385
HORN USA Inc	5353
Internal Tool	5853
JM Performance Products Inc	5422
Kyocera Precision Tools Inc	5573
Laser Measuring Technologies LLC	3122
Lexington Cutter	5469
Lindco Springfield Co	1118
Link Industries	5826
LMT Onsrud Tooling	1035
Lovejoy Tool Co	5242
Mapal Inc	5327
Martindale Electric Co	5719
Maxtool Corp.	5002
Melin Tool Company	5618
Mikron Corp Monroe	5426
Mitsubishi Materials USA	5468
Monster Tool Co Inc	5411
Multicam East	1035
Nexgen Tooling	5747
NTK Cutting Tools	5564
OG Bell Co	5767
OSG Usa Inc	5652
ReCarb LLC	5642
Sandvik Coromant	1118
Scientific Cutting Tools Inc	5224
SIMTEK USA Inc.	5636
Somma Tool Co	5542
Southwick & Meister Inc	5387
Starrett Company	3011, 5045
Sunnen Products Co	2111
THINBIT	5348
Tool-Flo Manufacturing Inc	5519
Tru Tech Systems Inc	1830
Turpin Sales & Marketing Inc	5570
US Shop Tools	5609
US Tool Group Inc	5626
Vollmer Of America	1158
Wickman Machine Tool Inc	1822
YG-1	1118
YG-1 Tool Co	5474

Cutting Tools Ceramic

ANCA Inc	1244
BlackHawk / Kennametal	5563
Butler Bros	5637
Carbide Related Technologies, Inc.	5765
Ceratizit	1118
Diacut Inc	3226
Gesswein Co	5653
Greenleaf Corp	5317
Guhring Inc	5333
GWS Tool Group	5621
HORN USA Inc	5353
Internal Tool	5853
Kyocera Precision Tools Inc	5573
Lindco Springfield Co	1118
LMT Onsrud Tooling	1035
Lovejoy Tool Co	5242
MAPAL Inc	5327
Mitsubishi Materials USA	5468
NTK Cutting Tools	5564
Sandvik Coromant	1118
Tool-Flo Manufacturing Inc	5519
Tru Tech Systems Inc	1830

Cybersecurity

Antaira	3145
Moxa	3328

Data Collection Systems

Bruker Corporation	3026
Caron Engineering Inc	5432
Chemetall US Inc	3234
CPU Automation Inc	3145
Dino-Lite Scopes (BigC)	3143
Dynics Inc.	3145
Flexbar Machine Corp	3157
Fowler High Precision Inc	3251
Gibson Engineering Co Inc	3045
Glastonbury Southern Gage Thread & Cylindrical Gages And Masters	3254
GTI Spindle Technology Inc	5562
Heidenhain Corp	1634
Hexagon Manufacturing Intelligence	3103
High QA, Inc	341
Holts Precision Inc	3156, 5419
Judge Tool & Gage	3138
Keyence Corp of America	2042
Kotem	3003
L.F.O'leary Co.Inc./ Glastonbury Southern Gage	3254
Macdac Engineering	5233
Marposs Corp	1644
Metrologic Group Services	3228
Mitutoyo America Corp	3111
Nexas America LLC	5527
Nikon Metrology Inc	3203
Nysus Solutions LLC	3259
OASIS Inspection Systems	3050
Pinpoint Laser Systems	3054
Pratt & Whitney Measurement Systems Inc	3006
Scytec Consulting Inc.	5527
ShopFloorConnect	5668
Starrett Company	3011, 5045
Thermo Fisher Scientific	339
VKS - Visual Knowledge Share	5370

Deburring Machines

Air Turbine Tools	5753
Blast & Wash Systems	5509
Blast it All	5509
Burr King Manufacturing Co	1713
Carlson Fabrication Solutions	2128
Comco Inc	5545
Cutler Industrial Sales	5469
Ecoclean Inc	3019
EMAG LLC	1045
Force Automation	5509
Gibson Abrasive Equipment	5509
LS Industries Inc	3043
Midwest Automation	1228
Mikro Industrial Finishing Co	5440
Nagel Precision Inc	5850
New England Metal Finishing & Precision Finishing Services	5136
New England Sales Inc	2026
Northeast Machinery Sales/FlexCNC	1228
NSK America Corp	5344
Somma Tool Co	5542
Vapor Honing Technologies	5509
Wickman Machine Tool Inc	1822

Deep Hole (Gundrilling) Machines (Special Machines)

Advanced Machine & Engineering	5843
Aloris Tool Technology Co Inc	5332
Automation Engineering Co	5759
Edac Technologies	5553
Kays Engineering/DeHoff/Eldorado	1612
Nagel Precision Inc	5850
Suhner Industrial Products Inc	5020
Sunnen Products Co	2111
Takachiho America Inc.	5741
UNISIG	1235

Design Simulation

AutoForm Engineering USA Inc	5467
Swoosh Technologies	5338

Dies & Die Components

Aloris Tool Technology Co Inc	5332
HASCO America Inc.	5010
Precision Punch Corp	5633
Tapeswitch Corporation	336

Dies Stamping & Forming

Monode	5682
Numberall Stamp & Tool Co	1142
Precision Punch Corp	5633
Tapeswitch Corporation	336
W & H Stampings & Fineblanking	5550

Digital Gages

Digipas Technologies Inc	5340
Dorsey Metrology International Inc	3119
Fischer Technology Inc	5738
Fowler High Precision Inc	3251
Heidenhain Corp	1634
Holts Precision Inc	3156, 5419
J & L Metrology Inc	3255

Johnson Gage Co	3042
Judge Tool & Gage	3138
Marposs Corp	1644
Mitutoyo America Corp	3111
New Scale Robotics	2139
Omni Services	5612
Pratt & Whitney	
Measurement Systems Inc	3006
Precision Jig Fixture & Metrology	5831
Quality Plus Inc	3241
Starrett Company	3011, 5045
Thermo Fisher Scientific	339
Verisurf Software Inc	5050

Digital Transformation

LillyWorks Scheduling & ERP Software	5763
Macdac Engineering	5233
MachineMetrics	5037
Makino Inc	1236
Nexas America LLC	5527
Scytec Consulting Inc.	5527
ShopFloorConnect	5668
Swoosh Technologies	5338

Digitizers

Capture 3D Inc	3044
Renishaw Inc	3151

DNC

CIMCO Americas LLC	5716
Fagor Automation Corp	2123
Griffo Brothers Inc	5034
Macdac Engineering	5233
Nexas America LLC	5527
WireFreeCNC	5233

Drafting & Designing Services

Air Inc	3039
Cimquest Inc	5036
Dorsey Metrology International Inc	3119
G II Solutions Inc	1253
Hawkeye Innovation LLC	5838
item Northeast	1861
Kalow Technologies	5821
Paletti USA	3239
Sanken Industry Co. Ltd.	5749
Winslow Engineering Inc	2109

Drilling & Reaming Tools

Allied Machine & Engineering	5453
ANCA Inc	1244
ARCH Cutting Tools & Beamer Laser Marking Systems	5666
Big Kaiser Precision Tooling Inc	5248
BlackHawk / Kennametal	5563
Butler Bros	5637
Carbide Related Technologies, Inc.	5765
Carmex Precision Tools LLC	5016
Ceratzit	1118
Contour360	5559
Cutler Industrial Sales	5469
Darex LLC	5676
Evered Tool Company	5649
Fastenal Company	5575

Fullerton Tool Co	5736
Genevieve Swiss Industries Inc	5133
Guhring Inc	5333
GWS Tool Group	5621
GWS/Benchmark Carbide	1118
Hassay Savage Co	5774
Internal Tool	5853
iSwiss Corporation	5616
Kays Engineering/DeHoff/Eldorado	1612
Kyocera Precision Tools Inc	5573
Laser Measuring Technologies LLC	3122
Lexington Cutter	5469
Lindco Springfield Co	1118
Link Industries	5826
MAPAL Inc	5327
Maxtool Corp.	5002
Melin Tool Company	5618
Mikron Corp Monroe	5426
Mitsubishi Materials USA	5468
Nagel Precision Inc	5850
Nexgen Tooling	5747
OG Bell Co	5767
OSG USA INC	5652
ReCarb LLC	5642
Sandvik Coromant	1118
Sunnen Products Co	2111
Turpin Sales & Marketing Inc	5570
US Tool Group Inc	5626
Vollmer Of America	1158
YG-1	1118
YG-1 Tool Co	5474

Drilling & Tapping Equipment

Air Turbine Tools	5753
Automation Engineering Co	5759
Centaur Precision Tools Inc	5512
Cutler Industrial Sales	5469
Dake	5469
Datron Dynamics Inc	5240
FlexArm Inc	5541
FlexCNC	1228
GF Machining Solutions	1620
Haas Factory Outlet - Trident	1218
Hypneumat/Commander/Snow	5759
KAASST Machine Tools Inc	2134
Mikron Corp Monroe	5426
Sauter North America Inc	5423
Sir Meccanica SpA	5445
Somma Tool Co	5542
SpiderCool	1241
Sugino Corp.	5759
Suhner Industrial Products Inc	5020
Sunnen Products Co	2111
Syil America Inc	1808
Yamazen Inc	1005
Yuasa International	1748

DROs (Digital Readouts)

Babin Machine Tool	1743
Fagor Automation Corp	2123
Heidenhain Corp	1634
Judge Tool & Gage	3138
Mitutoyo America Corp	3111
Rice Machinery Inc	1734
Verisurf Software Inc	5050

EDM Machines

Alpha Grainger Manufacturing	5683
Belmont Equipment & Technologies	1248
Belmont Equipment and Technologies	1620
Brooks Assoc Inc	1206
Current EDM Inc	1255
Ebbco Inc	1727
EDM Network Inc	1648
Electrodes Inc	1128
Fluid Chillers	1001
GF Machining Solutions	1420, 1620
KAASST Machine Tools Inc	2134
Kgk International Corp	1662
Makino Inc	1236
Methods Machine Tools Inc	2034
Mitsubishi EDM /	
MC Machinery Systems Inc	1426
Perry Technology Corp	5623
Ram Precision Tool Inc	1626
Ross Machinery Sales Inc	1620

EDM Supplies and Accessories

Belmont Equipment & Technologies	1248
Belmont Equipment and Technologies	1620
Carr Lane Manufacturing/ Carr Lane Roemheld	5659
Current EDM Inc	1255
Ebbco Inc	1727
EDM Network Inc	1648
Electrodes Inc	1128
General Manufacturing Inc	1863
GF Machining Solutions	1420, 1620
Hangsterfer's Laboratories Inc	5632
Hirschmann Engineering USA Inc	1231
Mitsubishi EDM /	
MC Machinery Systems Inc	1426
OC White CO	3051
Ram Precision Tool Inc	1626
Ross Machinery Sales Inc	1620
Saturn Industries Inc	1237
Takachiho America Inc.	5741
Turpin Sales & Marketing Inc	5570
Waldmann Lighting Co	1614

EDM Tooling & Fixtures

Belmont Equipment & Technologies	1248
Belmont Equipment and Technologies	1620
Carr Lane Manufacturing/ Carr Lane Roemheld	5659
Chumpower Machinery Corp	5770
Current EDM Inc	1255
EDM Network Inc	1648
Electrodes Inc	1128
GF Machining Solutions	1620
Hermann Schmidt Co	1723
Hirschmann Engineering USA Inc	1231
Makino Inc	1236
Methods Machine Tools Inc	2034
Ram Precision Tool Inc	1626
Saturn Industries Inc	1237

Education & Training Services & Institutions

American Society of Mechanical Engineers	5751
Boston Tooling and Machining Association sponsored by CompuMachine	5245
Conley Casting Supply Corp	5739

ECM Global Measurement Solutions	3008
LaserStar Technologies Corp	2100
Lubrication Technologies Inc	5737
Mitsubishi Materials USA	5468
Mitutoyo America Corp	3111
Nikon Metrology Inc	3203
NTMA	1862
Plastics International	5366
Poco Graphite	1227
Siemens Industry Inc	2012
SME	1164
SME Education Foundation	1164
SME Media	1164
Swoosh Technologies	5338
Syil America Inc	1808
The Custom Group Center	
For Manufacturing Technology	5582
Tooling U-SME	1164
Wickman Machine Tool Inc	1822

Electronics Assembly

Kalow Technologies	5821
Purex Inc	2102

Engineering Services

Airline Hydraulics Corp	1820
American Society of Mechanical Engineers	5751
Aquest Corp	3347
Buffoli North America	2041
CIMCO Americas LLC	5716
ECM Global Measurement Solutions	3008
Ecoclean Inc	3019
Faxon Engineering	1768
G II Solutions Inc	1253
Hawkeye Innovation LLC	5838
JH Robotics Inc	1462
Kalow Technologies	5821
Perry Technology Corp	5623
R & D Technologies	5776
Swoosh Technologies	5338
The Hope Group	5858
VJ Technologies Inc	5835
Winslow Engineering Inc	2109

Engraving Equipment

Air Turbine Tools	5753
Amada Miyachi America	2101
Boston Laser Tech	5722
Datron Dynamics Inc	5240
Epilog Laser Corp	2129
Gesswein Co	5653
Keyence Corp of America	3029
LaserStar Technologies Corp	2100
MB Metal Technologies LLC	2009
Monode	5682
Multicam East	1035
Numberall Stamp & Tool Co	1142
Precision Laser Technology LLC	3154
TYKMA Electro	3035

Environmental Equipment & Protection

AER Control Systems LLC	5762
Air Filtration Systems	3059
Airflow Systems Inc	3309
Aquest Corp	3347

Blast & Wash Systems	5509
Custom Service Solutions Inc	3218
Diversitech Air Filtration	5509
Ebbco Inc	1727
EXM	3145
Hangsterfer's Laboratories Inc	5632
Ketcham & Co Inc	3306
Nordfab Ducting	3025
Pro Ultrasonics	3055
Purex Inc	2102
SciAps Inc	3125

Ergonomics

Airline Hydraulics Corp	1820
Ergo Advantage	5617
Ergotron Inc	5144
EXM	3145
FlexArm Inc	5541
item Northeast	1861
Modula Inc	1254
NSK America Corp	5344
Stamptech Inc	5523
Vision Engineering Inc	3322
Waldmann Lighting Co	1614
Workplace Modular Systems LLC	5658

Fabricated Components

Acorn Industrial Products Co	5415
Automation Engineering Co	5759
Curbell Plastics Inc	5771
Inter-Lakes Bases, Inc.	5759
Laroche Foundry Ltd	5362
Millinocket Fabrication & Machine LLC	2126
VJ Technologies Inc	5835

Fabricating

Acorn Industrial Products Co	5415
Advance Welding	5870
Aerospace Alloys Inc	5729
Automation Engineering Co	5759
BUWW Coverings Inc	3335
Fabricating & Metalworking Magazine	3321
Front Panel Express	5568
HEM Inc	2038
Inter-Lakes Bases, Inc.	5759
Machitech Automation	1656
Millinocket Fabrication & Machine LLC	2126
Mitsubishi EDM / MC Machinery Systems Inc	1426
Supra Alloys A Div of TITAN	
Metal Fabricators Inc	5643
Vance Metal Fabricators Inc	1824

Fans & Blowers

Air Filtration Systems	3059
Airflow Systems Inc	3309
Aquest Corp	3347
EXM	3145
Harvey Industries International Inc	3343
Ketcham & Co Inc	3306
OC White CO	3051
Rittal Corp	5035
Ventilation USA LLC	3018

Fasteners & Precision Formed Parts

Arnold Supply Inc	5548
Fixtureworks	5766
Paletti USA	3239
TCI Precision Metals	5030

Fastening & Joining Equipment

Aimtek Inc	2108
Ambrell Induction Heating Solutions	2008
Atlas Copco Tools/Palmac	1134
CGTech	5350
EMAG LLC	1045
Judge Tool & Gage	3138
LaserStar Technologies Corp	2100
Radyne Corp	1102
Vlier Products	5526

Files New & Resharpener

BlackHawk / Kennametal	5563
Martindale Electric Co	5719

Filters & Filtration

Advanced Machine & Engineering	5843
Advanced Superabrasives, Inc.	1156
AER Control Systems LLC	5762
Air Filtration Systems	3059
Air Inc	3039
Aquajet Cutting Technology	1654
Aquest Corp	3347
Automation Engineering Co	5759
Blast & Wash Systems	5509
Custom Service Solutions Inc	3218
Ebbco Inc	1727
Eclipse Magnetics	3022
Electrodes Inc	1128
Faxon Engineering	1768
Hangsterfer's Laboratories Inc	5632
Jorgensen Conveyors, Inc.	5759
Keller Products Inc	3057
Ketcham & Co Inc	3306
Lubrication Technologies Inc	5737
MCRL Inc / Fluid Chillers	1001
Mikro Industrial Finishing Co	5440
Minuteman / Empire Automation Systems	3301
New England Metal Finishing	
& Precision Finishing Services	5136
Nordfab Ducting	3025
Parker	5858
Rosedale Products Inc	3028
Royal Products	5469
Rush Machinery	1129
Saturn Industries Inc	1237
Star CNC Machine Tool Corp / Eurotech Elite	1444
Takachiho America Inc.	5741
The Hope Group	5858
Tru Tech Systems Inc	1830

Finishing & Coating

Advanced Coating Service	5624
Ajax Tocco Magnethermic Corp	1026
Alexandria Metal Finishers	5742
Anoplate Corp	5726

Armology of Connecticut Inc	5246
Chemetall US Inc	3234
DuBois Chemicals Inc	5449
Garboli	5820
J&S Machine Inc	5820
Northeast Coating Technologies	5540
Pauway Corp	5549
Rock Ridge Abrasives	5743
Smith & Wesson Precision Components	5365

Finishing Plating & Coating Equipment & Systems

Aimtek Inc	2108
Chemetall US Inc	3234
DuBois Chemicals Inc	5449
Noble Industrial Furnace	3354
Oerlikon Balzers Coating USA Inc	5567
Pauway Corp	5549
Purex Inc	2102

Fixtures & Components

ABTech Inc	3012
Advanced Machine & Engineering	5843
Belmont Equipment & Technologies	1248
Big Kaiser Precision Tooling Inc	5248
Blue Photon Technology & Workholding Systems LLC	5734
Carr Lane Manufacturing/ Carr Lane Roemheld	5659
Erowa Technology Inc	1628
Fixtureworks	5766
General Manufacturing Inc	1863
Halder Inc	5427
Hawkeye Innovation LLC	5838
Hirschmann Engineering USA Inc	1231
Jergens Inc	5644
Kitagawa-NorthTech Inc.	1152
L.F.OiLeary Co.Inc/ Glastonbury Southern Gage	3254
Lang Technovation Co	5483
Mitee-Bite Products LLC	5459
Modern Industries Inc	5750
New England Metal Finishing & Precision Finishing Services	5136
Northfield Precision Instrument Corp	5508
Paletti USA	3239
PAWS Workholding	5866
Phillips Precision Inc	3342
Plastics International	5366
Precision Jig Fixture & Metrology	5831
R&R Fixtures LLC	3318
Ram Precision Tool Inc	1626
Renishaw Inc	3151
Samchully Workholding	5469
SMW Autoblok Corp	2013
Strong Hand Tools	5627
TE-CO	5463
TRIAG	5843
Vektak LLC	5026
Vlier Products	5526
Waldmann Lighting Co	1614
ZEISS Industrial Metrology	3159

Flexible Manufacturing Systems (FMS) Equipment & Software

Buffoli North America	2041
GF Machining Solutions	1620
Mitsui Seiki USA	1620
Racer Machinery International Inc	1638
Ross Machinery Sales Inc	1620
Toyoda Americas Corporation	1034
Yamazen Inc	1005

Fluid Power Components

Advanced Machine & Engineering	5843
Air Inc	3039
Airline Hydraulics Corp	1820
Carr Lane Manufacturing/ Carr Lane Roemheld	5659
Faxon Engineering	1768
Houghton International Inc	5560
Lubrication Technologies Inc	5737
Minuteman / Empire Automation Systems	3301
Omni Services	5612
Parker	5858
Roemheld	5661
The Hope Group	5858
Walrus America Inc	5748

Forging Equipment

Ajax Tocco Magnethermic Corp	1026
GH Induction Atmospheres LLC	2033
Lucifer Furnaces Inc	2003

Forming & Fabricating

Advance Welding	5870
Carlson Fabrication Solutions	2128
Cincinnati Inc	1844
CLOMEA / 3C	5820
Flow International Corp	1712
GH Induction Atmospheres LLC	2033
J&S Machine Inc	5820
KAAST Machine Tools Inc	2134
Laroche Foundry Ltd	5362
Lucifer Furnaces Inc	2003
Millinocket Fabrication & Machine LLC	2126
Mitsubishi EDM / MC Machinery Systems Inc	1426
Northeast Machinery Sales/FlexCNC	1228
Penn Stainless Products Inc	5043
Praxair Distribution Inc.	1606
Proto Labs Inc	5752
Radyne Corp	1102
Sanken Industry Co. Ltd.	5749
SIMASV	5820
Somma Tool Co	5542
Strong Hand Tools	5627
Tapeswitch Corporation	336
TRUMPF Inc	2004
Vance Metal Fabricators Inc	1824

Foundry Equipment & Supplies

Ajax Tocco Magnethermic Corp	1026
Blast & Wash Systems	5509
Conley Casting Supply Corp	5739
GKS Lifting and Moving Solutions LLC	3325
Noble Industrial Furnace	3354
VJ Technologies Inc	5835

Furnaces

Ajax Tocco Magnethermic Corp	1026
Ambrell Induction Heating Solutions	2008
GH Induction Atmospheres LLC	2033
Noble Industrial Furnace	3354
Radyne Corp	1102
Ultraflex Power Technologies Corp	1138

Gages & Gaging Systems

Accurex Measurement Inc	3139
Airline Hydraulics Corp	1820
Control Gaging Inc	3224
Digipas Technologies Inc	5340
Dorsey Metrology International Inc	3119
Faxon Engineering	1768
Fowler High Precision Inc	3251
Heidenhain Corp	1634
Holts Precision Inc	3156, 5419
J & L Metrology Inc	3255
JH Robotics Inc	1462
Johnson Gage Co	3042
Judge Tool & Gage	3138
Marposs Corp	1644
Mitutoyo America Corp	3111
New Scale Robotics	2139
Omni Services	5612
Origin Technologies Corp	1854
Pinpoint Laser Systems	3054
Pratt & Whitney Measurement Systems Inc	3006
Precision Jig Fixture & Metrology	5831
Quality Plus Inc	3241
Renishaw Inc	3151
Starrett Company	3011, 5045
Sunnen Products Co	2111
Thermo Fisher Scientific	339
Verisurf	5036
Verisurf Software Inc	5050
Yuasa International	1748

Gaskets Seals & Washers

Action Bearing Co	5514
American Society of Mechanical Engineers	5751
Curbell Plastics Inc	5771
Omni Services	5612

Gear Cutting Forming & Finishing Machines

EM Benson Co	5141
EMAG LLC	1045
Engis Corp	5028
Gebr. Saacke GmbH & Co. KG	1156
Haas Multigrind	1051
Perry Technology Corp	5623
Saacke North America LLC	1156
Toyoda Americas Corporation	1034

Gears & Splines

EM Benson Co	5141
Laroche Foundry Ltd	5362
Millinocket Fabrication & Machine LLC	2126
Perry Technology Corp	5623
Turpin Sales & Marketing Inc	5570
WTO USA	5223

Grinder Accessories

Amada Machine Tools America	1754
Atrump Machinery Inc	1762
Burr King Manufacturing Co	1713
Control Gaging Inc	3224
Cool Grind Technologies	1745
Diacut Inc	3226
Ebbco Inc	1727
Edac Technologies	5553
G II Solutions Inc	1253
General Manufacturing Inc	1863
Hardinge Inc	5444
Hermann Schmidt Co	1723
Laser Measuring Technologies LLC	3122
Marposs Corp	1644
MIDACO Corp	1858
Mirka / Cafro	1711
Modern Tools Inc	1127
NSK America Corp	5344
OC White CO	3051
Okamoto Corp	1044
Rollomatic Inc	1706
Rush Machinery	1129
Saacke North America LLC	1156
SMW Autoblok Corp	2013
SpiderCool	1241
Supertec Grinders	1620
Takachiho America Inc.	5741
Tru Tech Systems Inc	1830
TTB Engineering SA	1156
Vollmer Of America	1158
Waldmann Lighting Co	1614
Walker Magnetics	5543
Winslow Engineering Inc	2109

Grinders & Grinding Machines

ABTech Inc	3012
Acer Group	1705
Air Turbine Tools	5753
Amada Grinders	1620
Amada Machine Tools America	1754
ANCA Inc	1244
Atrump Machinery Inc	1762
Brooks Assoc Inc	1206
Burr King Manufacturing Co	1713
Control Gaging Inc	3224
Darex LLC	5676
DCM Tech Inc	1125
Ebbco Inc	1727
Edac Technologies	5553
EMAG LLC	1045
FlexArm Inc	5541
Fluid Chillers	1001
Gebr. Saacke GmbH & Co. KG	1156
Haas Multigrind	1051
Hardinge Inc	5444
INIRAM Precision Machine Tool Inc	1468
KAASST Machine Tools Inc	2134
Kgk International Corp	1662
Kitagawa-NorthTech Inc.	1152
Laser Measuring Technologies LLC	3122
Makino Inc	1236

Mirka / Cafro	1711
Modern Tools Inc	1127
NESSteel Inc	5033
Northfield Precision Instrument Corp	5508
Northland Tool & Electronics	5828
Okamoto Corp	1044
Penn Stainless Products Inc	5043
Perry Technology Corp	5623
Praxair Distribution Inc.	1606
Rice Machinery Inc	1734
Rollomatic Inc	1706
Ross Machinery Sales Inc	1620
Rush Machinery	1129
Saacke North America LLC	1156
Schutte Corp	1056
SpiderCool	1241
Supertec Grinders	1620
Toyoda Americas Corporation	1034
Tru Tech Systems Inc	1830
TTB Engineering SA	1156
Vollmer Of America	1158
Weima America Inc	335
Winslow Engineering Inc	2109

Grinding Wheels

A. TEC Diamond Co Ltd	5006
Advanced Superabrasives, Inc.	1156
Allied Machine & Engineering	5453
Cool Grind Technologies	1745
Diacut Inc	3226
Engis Corp	5028
Fastenco Company	5575
Lindco Springfield Co	1118
Maxtool Corp.	5002
Mirka / Cafro	1711
Modern Tools Inc	1127
Radiac Abrasives	1118
Rush Machinery	1129
Tru Tech Systems Inc	1830
Vollmer Of America	1158
Winslow Engineering Inc	2109
YG-1 Tool Co	5474

Grooving Tools

Advent Tool & Manufacturing Inc.	5469
Aloris Tool Technology Co Inc	5332
Big Kaiser Precision Tooling Inc	5248
BlackHawk / Kennametal	5563
Carmex Precision Tools LLC	5016
Ceratizit	1118
Controx Inc	5571
Diacut Inc	3226
Everede Tool Company	5649
Genevieve Swiss Industries Inc	5133
Greenleaf Corp	5317
Guhring Inc	5333
GWS Tool Group	5621
GWS/Benchmark Carbide	1118
Hassay Savage Co	5774
HORN USA Inc	5353
Internal Tool	5853
Kyocera Precision Tools Inc	5573
Lindco Springfield Co	1118
Mikron Corp Monroe	5426
Mitsubishi Materials USA	5468
NTK Cutting Tools	5564
OSG USA INC	5652
Sandvik Coromant	1118
Scientific Cutting Tools Inc	5224
SIMTEK USA Inc.	5636
Southwick & Meister Inc	5387

Thinbit	5348
Tool-Flo Manufacturing Inc	5519
Turpin Sales & Marketing Inc	5570

Hardness Testers

Fischer Technology Inc	5738
Flexbar Machine Corp	3157
Fowler High Precision Inc	3251
Glastonbury Southern Gage Thread & Cylindrical Gages And Masters	3254
Hardline Heat Treating Inc	2011
Holts Precision Inc	3156, 5419
Judge Tool & Gage	3138
L.F.O'Leary Co.Inc/ Glastonbury Southern Gage	3254
Mitutoyo America Corp	3111
Olympus America Inc	1766
Starrett Company	3011, 5045
Thermo Fisher Scientific	339

Hazardous Handling

GKS Lifting and Moving Solutions LLC	3325
SciAps Inc	3125

Heat Exchangers

American Society of Mechanical Engineers	5751
Ebbco Inc	1727
MCRL Inc / Fluid Chillers	1001
Ventilation USA LLC	3018

Heat Treating

Advance Welding	5870
Aerodynamics Inc	5482
Ajax Tocco Magnethermic Corp	1026
Aloris Tool Technology Co Inc	5332
Bonal Technologies Inc	1136
Cambridge Vacuum Engineering	5857
CEIA USA Induction Heating Systems	1243
DuBois Chemicals Inc	5449
GH Induction Atmospheres LLC	2033
Hardline Heat Treating Inc	2011
Lucifer Furnaces Inc	2003
Noble Industrial Furnace	3354
Oerlikon Balzers Coating USA Inc	5567
Preco Inc	5237
Radyne Corp	1102
Solar Atmospheres	1251
Taylor-Winfield Technologies Inc	2107

Heat Treating Hardening Systems

Ajax Tocco Magnethermic Corp	1026
Alpha Laser - US	2105
GH Induction Atmospheres LLC	2033
Hardline Heat Treating Inc	2011
Lucifer Furnaces Inc	2003
Noble Industrial Furnace	3354
Preco Inc	5237
Radyne Corp	1102
Taylor-Winfield Technologies Inc	2107

Hoists & Cranes

American Society of Mechanical Engineers	5751
Atlas Copco Tools/Palmarc	1134
Carr Lane Manufacturing/ Carr Lane Roemheld	5659
Deluxe Systems	3340
Fastenal Company	5575
FlexArm Inc	5541
GKS Lifting and Moving Solutions LLC	3325
Osaap America	1132
Tapeswitch Corporation	336

Honing

Brush Research Manufacturing Co	5608
Darex LLC	5676
Engis Corp	5028
Mirka / Cafro	1711
Nagel Precision Inc	5850
REGO-FIX Tool Corp	5320
Sunnen Products Co	2111
Takachiho America Inc.	5741
Vapor Honing Technologies	5509

Hydraulic Systems

Airline Hydraulics Corp	1820
Carr Lane Manufacturing/ Carr Lane Roemheld	5659
Faxon Engineering	1768
GKS Lifting and Moving Solutions LLC	3325
Laroche Foundry Ltd	5362
Omni Services	5612
Roemheld	5661
The Hope Group	5858
Walrus America Inc	5748

IIoT

Antaira	3145
ATAGO USA Inc	5745
Axis New England	3328
Caron Engineering Inc	5432
Dynics Inc.	3145
GF Machining Solutions	1420
LillyWorks Scheduling & ERP Software	5763
Macdac Engineering	5233
MachineMetrics	5037
Makino Inc	1236
Minuteman / Empire Automation Systems	3301
Moxa	3328
Nexas America LLC	5527
Parker	5858
Scytec Consulting Inc.	5527
ShopFloorConnect	5668
VKS - Visual Knowledge Share	5370

Induction Heating

Ajax Tocco Magnethermic Corp	1026
Alpha Laser - US	2105
Ambrell Induction Heating Solutions	2008
CEIA USA Induction Heating Systems	1243
Controx Inc	5571
Fluid Chillers	1001
GH Induction Atmospheres LLC	2033
Hardline Heat Treating Inc	2011
Lucifer Furnaces Inc	2003

Radyne Corp	1102
Smith & Wesson Precision Components	5365
Taylor-Winfield Technologies Inc	2107
Ultraflex Power Technologies Corp	1138

Inspection Systems & Equipment

4D Technology Corp	3211
ABTech Inc	3012
Accurex Measurement Inc	3139
ATAGO USA Inc	5745
Autodesk Inc	5326
Blum-Novotest, Inc.	5432
Bruker Corporation	3026
Capture 3D Inc	3044
Caron Engineering Inc	5432
Certified Comparator Products (CCP)	3003
Cimquest Inc	5036
Control Gaging Inc	3224
CPU Automation Inc	3145
Digipas Technologies Inc	5340
Dino-Lite Scopes (BigC)	3143
Dorsey Metrology International Inc	3119
ECM Global Measurement Solutions	3008
Euro-Tech Corp	5336
FARO Technologies Inc	3135
Fischer Technology Inc	5738
Fixtureworks	5766
Flexbar Machine Corp	3157
Fowler High Precision Inc	3251
Gibson Engineering Co Inc	3045
Glastonbury Southern Gage Thread & Cylindrical Gages And Masters	3254
Gradient Lens Corporation	3150
GTI Spindle Technology Inc	5562
Hawkeye Innovation LLC	5838
Heidenhain Corp	1634
Hemel Engineering Products Inc	3207
Hexagon Manufacturing Intelligence	3103
High QA, Inc	341
Holts Precision Inc	3156, 5419
InnovMetric Software Inc	3244
ITACA	3003
J & L Metrology Inc	3255
JH Robotics Inc	1462
JM Performance Products Inc	5422
Johnson Gage Co	3042
Judge Tool & Gage	3138
Keyence Corp of America	2042, 3029
Koma Precision Inc	5359
L.F.O'leary Co.Inc/ Glastonbury Southern Gage	3254
Laser Measuring Technologies LLC	3122
Marposs Corp	1644
Metrologic Group Services	3228
Metronor Inc	3127
Mitutoyo America Corp	3111
Nikon Metrology Inc	3203
North Coast Technical	1865
Nysus Solutions LLC	3259
OASIS Inspection Systems	3050
OC White CO	3051
Olympus America Inc	1766
Omega TMM Inc.	5127
Optical Gaging Products	3003
Origin Technologies Corp	1854
Perry Technology Corp	5623
Phillips Precision Inc	3342
Pinpoint Laser Systems	3054
Pratt & Whitney Measurement Systems Inc	3006
Precision Jig Fixture & Metrology	5831

Quality Plus Inc	3241
Quality Vision International	3003
R&R Fixtures LLC	3318
RAM	3003
Renishaw Inc	3151
Rigaku Analytical Devices	3319
Rollomatic Inc	1706
SciAps Inc	3125
ShapeGrabber 3D Scanners	3003
Starrett Company	3011, 5045
Sunnen Products Co	2111
TE-CO	5463
Teledyne Dalsa	3145
Thermo Fisher Scientific	339
Vela Instruments LLC	5842
Verisurf Software Inc	5050
Vision Engineering Inc	3322
Wenzel America Ltd	3223
Werth Inc	3213
Winslow Engineering Inc	2109
Yuasa International	1748
ZEISS Industrial Metrology	3159
Zoller Inc	5436

Jigs & Fixtures

Advance Welding	5870
Belmont Equipment & Technologies	1248
Blue Photon Technology & Workholding Systems LLC	5734
Carr Lane Manufacturing/ Carr Lane Roemheld	5659
Fixtureworks	5766
Halder Inc	5427
Jergens Inc	5644
Kitagawa-NorthTech Inc.	1152
L.F.O'leary Co.Inc/ Glastonbury Southern Gage	3254
Lang Technovation Co	5483
LaserStar Technologies Corp	2100
Mitee-Bite Products LLC	5459
New England Metal Finishing & Precision Finishing Services	5136
Northfield Precision Instrument Corp	5508
PAWS Workholding	5866
Phillips Precision Inc	3342
Precision Jig Fixture & Metrology	5831
R&R Fixtures LLC	3318
Roemheld	5661
Strong Hand Tools	5627
TE-CO	5463
Vektec LLC	5026
Vlier Products	5526

Joining Materials

Advance Welding	5870
Aimtek Inc	2108
Ambrell Induction Heating Solutions	2008
Branson Ultrasonics Corp	3235
Cambridge Vacuum Engineering	5857
Lynn Welding	2027
Taylor-Winfield Technologies Inc	2107

Lapping

A. TEC Diamond Co Ltd	5006
Engis Corp	5028
Mirka / Cafro	1711
Nagel Precision Inc	5850
Okamoto Corp	1044
Rock Ridge Abrasives	5743

stratus technologies	5743
Sunnen Products Co	2111
TCI Precision Metals	5030

Lasers & Related Equipment

ACSYS Lasertechnik US Inc	1028
Airgas	1656
Alpha Laser - US	2105
Amada Miyachi America	2101
ARCH Cutting Tools & Beamer Laser Marking Systems	5666
Blum-Novotest, Inc.	5432
Boston Laser Tech	5722
Branson Ultrasonics Corp	3235
Caron Engineering Inc	5432
CGTech	5350
Dapra Marking Systems	2037
ECM Global Measurement Solutions	3008
Electronic Service Products	1620
EMAG LLC	1045
Epilog Laser Corp	2129
Fluid Chillers	1001
FOBA Laser Marking + Engraving Alltec GmbH	3341
Gesswein Co	5653
GF Machining Solutions	1420, 1620
Jinan Bodor CNC Machine Co Ltd	1146
Laser Marking Technologies LLC	2029
LaserStar Technologies Corp	2100
Marposs Corp	1644
Marubeni Citizen Cincom	1406
MB Metal Technologies LLC	2009
Monode	5682
Numberall Stamp & Tool Co	1142
Origin Technologies Corp	1854
Pinpoint Laser Systems	3054
Pratt & Whitney Measurement Systems Inc	3006
Praxair Distribution Inc.	1606
Precision Laser Technology LLC	3154
Preco Inc	5237
Purex Inc	2102
Rollomatic Inc	1706
SIC Marking USA Inc	323
SISMA USA Inc	2104
Starrett Company	3011, 5045
Telesis Technologies Inc	2005
THINBIT	5348
TRUMPF Inc	2004
TYKMA ElectroX	3035
Vytek Laser Systems	2022

Lathe Tooling & Accessories

Air Turbine Tools	5753
ARCH Cutting Tools & Beamer Laser Marking Systems	5666
BENZ Incorporated	5544
Big Kaiser Precision Tooling Inc	5248
Carmex Precision Tools LLC	5016
Centaur Precision Tools Inc	5512
Chumpower Machinery Corp	5770
Cutler Industrial Sales	5469
Flexbar Machine Corp	3157
Genevieve Swiss Industries Inc	5133
Hassay Savage Co	5774
heimatec GmbH	5146
Huot Manufacturing	5469
Internal Tool	5853
iSwiss Corporation	5616
Kitagawa-NorthTech Inc.	1152
Koma Precision Inc	5359

Kyocera Precision Tools Inc	5573
Marposs Corp	1644
Mitsubishi Materials USA	5468
Modern Industries Inc	5750
NTK Cutting Tools	5564
OC White CO	3051
OG Bell Co	5767
Platinum Tooling	5146
Racer Machinery International Inc	1638
REGO-FIX Tool Corp	5320
Rice Machinery Inc	1734
Sauter North America Inc	5423
Schunk Inc	5433
Scientific Cutting Tools Inc	5224
SIMTEK USA Inc.	5636
Somma Tool Co	5542
Southwick & Meister Inc	5387
Star CNC Machine Tool Corp / Eurotech Elite	1444
The Robert E. Morris Company	5464
Tool-Flo Manufacturing Inc	5519
US Shop Tools	5609
Waldmann Lighting Co	1614
Walker Magnetics	5543
Wickman Machine Tool Inc	1822
WTO USA	5223

Lathes Automatic

Acer Group	1705
Alpha Grainger Manufacturing	5683
Brooks Assoc Inc	1206
EMAG LLC	1045
Marubeni Citizen Cincom	1406
Northfield Precision Instrument Corp	5508
Racer Machinery International Inc	1638
Standard Modern Lathes	1638
Star CNC Machine Tool Corp / Eurotech Elite	1444
Syntec Technology Inc	5130
Victor Lathes	1620
Yamazen Inc	1005
Yuasa International	1748

Lathes CNC

ABTech Inc	3012
Acer Group	1705
Air Turbine Tools	5753
Alpha Grainger Manufacturing	5683
American Systems & Equipment Corp	1022
Atrump Machinery Inc	1762
Babin Machine Tool	1743
Brooks Assoc Inc	1206
CGTech	5350
CNC Systems Inc	1328
Cubic Machinery Inc	1021
Dynamic International	1454
EMAG LLC	1045
Fives Giddings & Lewis	1620
Haas Factory Outlet - Trident	1218
Hannsa Precision	1027
Hardinge Inc	5444
Hawkeye Innovation LLC	5838
Huron Machine Products	5000
JH Robotics Inc	1462
KAAST Machine Tools Inc	2134
Kitagawa-NorthTech Inc.	1152
Marubeni Citizen Cincom	1406
MIDACO Corp	1858
Millinocket Fabrication & Machine LLC	2126
Mitsubishi EDM / MC Machinery Systems Inc	1426

Northfield Precision Instrument Corp	5508
Northland Tool & Electronics	5828
NSK America Corp	5344
Perry Technology Corp	5623
Proto Labs Inc	5752
Racer Machinery International Inc	1638
Rice Machinery Inc	1734
Ross Machinery Sales Inc	1620
Sauter North America Inc	5423
Sir Meccanica SpA	5445
Standard Modern Lathes	1638
Star CNC Machine Tool Corp / Eurotech Elite	1444
Syil America Inc	1808
Syntec Technology Inc	5130
The Robert E. Morris Company	5464
Toyoda Americas Corporation	1034
Trak Machine Tools	1434
Victor Lathes	1620
WTO USA	5223
Yamazen Inc	1005
Yuasa International	1748

Lathes Non-Automatic

Acer Group	1705
Babin Machine Tool	1743
Brooks Assoc Inc	1206
Emag Llc	1045
Racer Machinery International Inc	1638
Standard Modern Lathes	1638
Syntec Technology Inc	5130
Victor Lathes	1620

Lean Manufacturing Fundamentals

GH Induction Atmospheres LLC	2033
Hawkeye Innovation LLC	5838
item Northeast	1861
JH Robotics Inc	1462
Laser Marking Technologies LLC	2029
LillyWorks Scheduling & ERP Software	5763
Macdac Engineering	5233
Nexas America LLC	5527
Osaap America	1132
Precision Punch Corp	5633
Pro Ultrasonics	3055
REGO-FIX Tool Corp	5320
Scytec Consulting Inc.	5527
TRUMPF Inc	2004
Turpin Sales & Marketing Inc	5570
VKS - Visual Knowledge Share	5370
Yamazen Inc	1005

Linear Motion Products

Alpine Bearing Co	5669
Axis New England	3328
Chambrelian SAS	2130
CPU Automation Inc	3145
Fagor Automation Corp	2123
Heidenhain Corp	1634
Hiwin Corporation	3034
IAI	3301
Infranor	3145
LaserStar Technologies Corp	2100
Minuteman / Empire Automation Systems	3301
Paletti USA	3239
Parker	5858
Parker Hannifin	3328

Pearse-Bertram LLC	3245
Pinpoint Laser Systems	3054
Preco Inc	5237
Renishaw Inc	3151
Schunk Inc	5433
Siemens Industry Inc	2012
The Hope Group	5858
Vention	329

Lubrication Equipment

Action Bearing Co	5514
Airline Hydraulics Corp	1820
ATAGO USA Inc	5745
Automatic Lube Systems Inc	5869
Blaser-Swisslube	1118
Carbide Related Technologies, Inc.	5765
Chemetall US Inc	3234
Dennison Lubricants	5662
DropsA Lubrication Systems	5869
Faxon Engineering	1768
GTI Spindle Technology Inc	5562
Hangsterfer's Laboratories Inc	5632
HPM Technologie GmbH	5765
Lubrication Technologies Inc	5737
Shell Lubricants	5662
SpiderCool	1241
Takachiho America Inc.	5741
Unist	5523

Machine Accessories

Acer Group	1705
AMF	5146
Atrump Machinery Inc	1762
BUWW Coverings Inc	3335
Caron Engineering Inc	5432
CNC Systems Inc	1328
Control Gaging Inc	3224
Digipas Technologies Inc	5340
Digipas Technologies Inc	5340
Dorner Mfg	5523
Ebbco Inc	1727
Edac Technologies	5553
Fixtureworks	5766
G II Solutions Inc	1253
Gebr. Saacke GmbH & Co. KG	1156
General Manufacturing Inc	1863
GKS Lifting and Moving Solutions LLC	3325
H & R	5469
Haas Factory Outlet - Trident	1218
Hangsterfer's Laboratories Inc	5632
Hardinge Inc	5444
heimatec GmbH	5146
Henninger	5146
Hermann Schmidt Co	1723
Huot Manufacturing	5469
INIRAM Precision Machine Tool Inc	1468
Ketcham & Co Inc	3306
Mach 1 Systems Inc	1725
Marposs Corp	1644
Methods Machine Tools Inc	2034
Midaco Corp	1858
MP Systems	5368
NSK America Corp	5344
Numberall Stamp & Tool Co	1142
OC White CO	3051
OG Bell Co	5767
OMAX Corp	1106
Platinum Tooling	5146
Rapid Air	5523
REGO-FIX Tool Corp	5320
Renishaw Inc	3151

Ross Machinery Sales Inc	1620
Royal Products	5469
Saacke North America LLC	1156
Samchully Workholding	5469
Sauter North America Inc	5423
SMW Autoblok Corp	2013
Somma Tool Co	5542
SpiderCool	1241
Star CNC Machine Tool Corp / Eurotech Elite	1444
Takachiho America Inc.	5741
Tecnicrafts	5146
TE-CO	5463
The Robert E. Morris Company	5464
Tru Tech Systems Inc	1830
Turpin Sales & Marketing Inc	5570
Waldmann Lighting Co	1614
WTO USA	5223
Zimmermann Inc	2137

Machine Castings & Weldments

Automation Engineering Co	5759
Inter-Lakes Bases, Inc.	5759
Laroche Foundry Ltd	5362

Machine Controls

Airline Hydraulics Corp	1820
Axis New England	3328
Babin Machine Tool	1743
Conley Casting Supply Corp	5739
CPU Automation Inc	3145
Electronic Service Products	1620
Elm Electrical	1852
Fagor Automation Corp	2123
Heidenhain Corp	1634
Mitsubishi Electric Automation Inc	1140
Omron	3328
Parker Hannifin	3328
Pearse-Bertram LLC	3245
Quality Vision International	3003
Rice Machinery Inc	1734
Rollomatic Inc	1706
Sanyo Denki	3145
Siemens Industry Inc	2012
Stamptech Inc	5523
The Hope Group	5858
Two Technologies Inc	3326
Unitronics	3145
Vention	329

Machine Tools

Aloris Tool Technology Co Inc	5332
Alpha Grainger Manufacturing	5683
ANCA Inc	1244
Atrump Machinery Inc	1762
Babin Machine Tool	1743
Big Kaiser Precision Tooling Inc	5248
Breton Machine Tools	1620
Brooks Assoc Inc	1206
Buffoli North America	2041
Burr King Manufacturing Co	1713
Chumpower Machinery Corp	5770
Clamptek USA Inc	5684
CNC Systems Inc	1328
Cutler Industrial Sales	5469
Darex LLC	5676
Datron Dynamics Inc	5240

DCM Tech Inc	1125
Dynamic International	1454
Edac Technologies	5553
Emag Llc	1045
Engis Corp	5028
Fluid Chillers	1001
GF Machining Solutions	1420
Haas Factory Outlet - Trident	1218
Hardinge Inc	5444
Hermann Schmidt Co	1723
Huron Machine Products	5000
INIRAM Precision Machine Tool Inc	1468
JM Performance Products Inc	5422
Laser Measuring Technologies LLC	3122
Mach 1 Systems Inc	1725
Makino Inc	1236
Marubeni Citizen Cincom	1406
MCRL Inc / Fluid Chillers	1001
Methods Machine Tools Inc	2034
Midaco Corp	1858
Mikro Industrial Finishing Co	5440
Modern Tools Inc	1127
Multicam East	1035
Northland Tool & Electronics	5828
OC White CO	3051
OG Bell Co	5767
Pocket NC Company	5008
Racer Machinery International Inc	1638
Rapid Air	5523
REGO-FIX Tool Corp	5320
Rice Machinery Inc	1734
Rollomatic Inc	1706
Saacke North America LLC	1156
Sauter North America Inc	5423
Sir Meccanica SpA	5445
Southwick & Meister Inc	5387
SpiderCool	1241
Standard Modern Lathes	1638
Star CNC Machine Tool Corp / Eurotech Elite	1444
Sunnen Products Co	2111
Syntec Technology Inc	5130
Tapeswitch Corporation	336
The Robert E. Morris Company	5464
Turpin Sales & Marketing Inc	5570
Vollmer Of America	1158
Walker Magnetics	5543
Yamazen Inc	1005

Machine Vision Systems

Axis New England	3328
Capture 3D Inc	3044
CPU Automation Inc	3145
Elm Electrical	1852
Fowler High Precision Inc	3251
Gibson Engineering Co Inc	3045
Holts Precision Inc	3156, 5419
J & L Metrology Inc	3255
Judge Tool & Gage	3138
Laser Measuring Technologies LLC	3122
Minuteman / Empire Automation Systems	3301
Mitutoyo America Corp	3111
North Coast Technical	1865
Nysus Solutions LLC	3259
OC White CO	3051
Omron	3328
Pratt & Whitney Measurement Systems Inc	3006
Preco Inc	5237
Quality Vision International	3003
R&R Fixtures LLC	3318
Rush Machinery	1129
Teledyne Dalsa	3145

Werth Inc	3213
Winslow Engineering Inc	2109
Zoller Inc	5436

Machining Centers

Acer Group	1705
ACSYS Lasertechnik US Inc	1028
Alpha Grainger Manufacturing	5683
American Systems & Equipment Corp	1022
Atrump Machinery Inc	1762
Babin Machine Tool	1743
Breton Machine Tools	1620
Brooks Assoc Inc	1206
Buffoli North America	2041
CGTech	5350
CNC Systems Inc	1328
Cubic Machinery Inc	1021
Datron Dynamics Inc	5240
Dynamic International	1454
Edac Technologies	5553
EDM Network Inc	1648
EMAG LLC	1045
Fives Giddings & Lewis	1620
FlexArm Inc	5541
FlexCNC	1228
Gentiger Machinery Industrial Co. Ltd	1061
GF Machining Solutions	1420, 1620
Haas Factory Outlet - Trident	1218
Hannsa Precision	1027
Hardinge Inc	5444
Hawkeye Innovation LLC	5838
INIRAM Precision Machine Tool Inc	1468
KAAST Machine Tools Inc	2134
Kitagawa-NorthTech Inc.	1152
LaserStar Technologies Corp	2100
Makino Inc	1236
Mandelli 5 Axis Machining Centers	1662
Methods Machine Tools Inc	2034
MIDACO Corp	1858
Mikron Corp Monroe	5426
Mitsubishi EDM / MC Machinery Systems Inc	1426
Mitsui Seiki USA	1620
Northeast Machinery Sales/FlexCNC	1228
Northfield Precision Instrument Corp	5508
Northland Tool & Electronics	5828
OC White CO	3051
Ohtori 5 Axis Machining Centers	1662
Perry Technology Corp	5623
Racer Machinery International Inc	1638
Rice Machinery Inc	1734
Ross Machinery Sales Inc	1620
SpiderCool	1241
SW North America Inc	1726
Syil America Inc	1808
Syntec Technology Inc	5130
Takachiho America Inc.	5741
The Robert E. Morris Company	5464
Toshiba Boring Mills	1662
Toyoda Americas Corporation	1034
Trak Machine Tools	1434
Vance Metal Fabricators Inc	1824
Yamazen Inc	1005
Zimmermann Inc	2137

Machining Centers Horizontal Spindle

Alpha Grainger Manufacturing	5683
American Systems & Equipment Corp	1022
Atrump Machinery Inc	1762

Brooks Assoc Inc	1206
Buffoli North America	2041
CNC Systems Inc	1328
Cubic Machinery Inc	1021
Dynamic International	1454
Fives Giddings & Lewis	1620
Haas Factory Outlet - Trident	1218
Hannsa Precision	1027
Makino Inc	1236
Mandelli 5 Axis Machining Centers	1662
Methods Machine Tools Inc	2034
MIDACO Corp	1858
Mikron Corp Monroe	5426
Mitsui Seiki USA	1620
Modern Tools Inc	1127
Northfield Precision Instrument Corp	5508
Northland Tool & Electronics	5828
Racer Machinery International Inc	1638
Rice Machinery Inc	1734
Ross Machinery Sales Inc	1620
SpiderCool	1241
SW North America Inc	1726
Syntec Technology Inc	5130
The Robert E. Morris Company	5464
Toshiba Boring Mills	1662
Toyoda Americas Corporation	1034
Yamazen Inc	1005
Zimmermann Inc	2137

Machining Centers Universal

Brooks Assoc Inc	1206
Buffoli North America	2041
Edac Technologies	5553
GF Machining Solutions	1620
Haas Factory Outlet - Trident	1218
INIRAM Precision Machine Tool Inc	1468
Kgk International Corp	1662
Mandelli 5 Axis Machining Centers	1662
Methods Machine Tools Inc	2034
MIDACO Corp	1858
Northfield Precision Instrument Corp	5508
Northland Tool & Electronics	5828
Racer Machinery International Inc	1638
Rice Machinery Inc	1734
Ross Machinery Sales Inc	1620
SpiderCool	1241
The Robert E. Morris Company	5464
Toshiba Boring Mills	1662
Toyoda Americas Corporation	1034

Machining Centers Vertical Spindle

Acer Group	1705
Atrump Machinery Inc	1762
Babin Machine Tool	1743
Breton Machine Tools	1620
Brooks Assoc Inc	1206
Buffoli North America	2041
CNC Systems Inc	1328
Cubic Machinery Inc	1021
Datron Dynamics Inc	5240
Dynamic International	1454
EMAG LLC	1045
Fives Giddings & Lewis	1620
FlexCNC	1228
GF Machining Solutions	1420, 1620
Haas Factory Outlet - Trident	1218
Hannsa Precision	1027
Hardinge Inc	5444
Hawkeye Innovation LLC	5838

INIRAM Precision Machine Tool Inc	1468
Mach 1 Systems Inc	1725
Makino Inc	1236
Methods Machine Tools Inc	2034
MIDACO Corp	1858
Mitsubishi EDM / MC Machinery Systems Inc	1426
Mitsui Seiki USA	1620
Northfield Precision Instrument Corp	5508
Northland Tool & Electronics	5828
NSK America Corp	5344
Ohtori 5 Axis Machining Centers	1662
Racer Machinery International Inc	1638
Rice Machinery Inc	1734
Ross Machinery Sales Inc	1620
SpiderCool	1241
Standard Modern Lathes	1638
Syil America Inc	1808
Syntec Technology Inc	5130
The Robert E. Morris Company	5464
Toyoda Americas Corporation	1034
Zimmermann Inc	2137

Machinists Aids

Darex LLC	5676
GKS Lifting and Moving Solutions LLC	3325
Gradient Lens Corporation	3150
Hermann Schmidt Co	1723
Mach 1 Systems Inc	1725
Plastics International	5366
Pro Ultrasonics	3055
SpiderCool	1241
The Custom Group Center For Manufacturing Technology	5582

Magnetic Equipment & Tools

Hermann Schmidt Co	1723
Hiwin Corporation	3034
Mitee-Bite Products LLC	5459
Platinum Tooling	5146
Roemheld	5661
Schunk Inc	5433
Strong Hand Tools	5627
Walker Magnetics	5543

Management Services

US Tool Group Inc	5626
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Manufacturing Scheduling & Control

Dassault Systemes	5233
ECi Software Solutions	5532
Elm Electrical	1852
LillyWorks Scheduling & ERP Software	5763
MachineMetrics	5037
Nysus Solutions LLC	3259
ProShop ERP	5847

Manufacturing Services

Advance Welding	5870
Aerospace Alloys Inc	5729
Airline Hydraulics Corp	1820
Conley Casting Supply Corp	5739
Da/Pro Rubber Inc	340

Dorsey Metrology International Inc	3119
Elm Electrical	1852
Front Panel Express	5568
Hardline Heat Treating Inc	2011
Hassay Savage Co	5774
Hawkeye Innovation LLC	5838
Huron Machine Products	5000
Hygrade Precision Technologies	5566
item Northeast	1861
J & L Metrology Inc	3255
JH Robotics Inc	1462
Kalow Technologies	5821
LS Industries Inc	3043
Lynn Welding	2027
MCRL Inc / Fluid Chillers	1001
Penn Stainless Products Inc	5043
Perry Technology Corp	5623
Plastics International	5366
Ram Precision Tool Inc	1626
Rittal Corp	5035
Saturn Industries Inc	1237
Smith & Wesson Precision Components	5365
TCI Precision Metals	5030
The Hope Group	5858
The Joseph Freedman Co Inc	1772
US Tool Group Inc	5626
Vention	329
Vision Engineering Inc	3322

Marking Equipment

Amada Miyachi America	2101
AMF	5146
ARCH Cutting Tools & Beamer Laser Marking Systems	5666
Cutler Industrial Sales	5469
Dapra Marking Systems	2037
Ensitech Inc	5758
FOBA Laser Marking + Engraving I Alltec GmbH	3341
Gibson Engineering Co Inc	3045
Laser Marking Technologies LLC	2029
LaserStar Technologies Corp	2100
Machitech Automation	1656
Marksman represented by Millennium Signatures Marking Systems Inc	3305
MB Metal Technologies LLC	2009
Minuteman / Empire Automation Systems	3301
Monode	5682
Numberall Stamp & Tool Co	1142
Pauway Corp	5549
Phillips Precision Inc	3342
Platinum Tooling	5146
Precision Laser Technology LLC	3154
SIC Marking USA Inc	323
SISMA USA Inc	2104
Technifor	3301
Telesis Technologies Inc	2005
TRUMPF Inc	2004
TYKMA Electrox	3035

Material Handling Equipment & Systems

Acorn Industrial Products Co	5415
Ajax Tocco Magnethermic Corp	1026
Amada Machine Tools America	1754
Behringer Saws Inc	2000
Decade Products Inc	3317
Deluxe Systems	3340
Dorner Mfg	5523
DuBois Chemicals Inc	5449

Ecoclean Inc	3019
Elm Electrical	1852
Ergotron Inc	5144
Fixtureworks	5766
FlexArm Inc	5541
GKS Lifting and Moving Solutions LLC	3325
Hyd-Mech Group Ltd	2122
item Northeast	1861
JH Robotics Inc	1462
Kasto Inc	1661
Modula Inc	1254
NITCO Industrial Cleaning Equipment & Commercial Products	3002
Rapid Air	5523
Schunk Inc	5433
Stor-Loc Corp	5712
Tapeswitch Corporation	336
Taylor-Winfield Technologies Inc	2107
TE-CO	5463
The Joseph Freedman Co Inc	1772
Vention	329
W T Hight CO	3338
Walker Magnetics	5543
Yuasa International	1748

Materials

Aerospace Alloys Inc	5729
Aimtek Inc	2108
Curbell Plastics Inc	5771
GKS Lifting and Moving Solutions LLC	3325
HASCO America Inc.	5010
Matterhackers	5848
Plastics International	5366
Poco Graphite	1227
SciAps Inc	3125
Service Steel Aerospace Corp	5744
TCI Precision Metals	5030
The Joseph Freedman Co Inc	1772
Ultimaker	5732
Vela Instruments LLC	5842
Wickman Machine Tool Inc	1822
Zimmermann Inc	2137

Measuring Tools & Equipment

ABTech Inc	3012
Accurex Measurement Inc	3139
Autodesk Inc	5326
Butler Bros	5637
Caron Engineering Inc	5432
Control Gaging Inc	3224
Digipas Technologies Inc	5340
Digipas Technologies Inc	5340
Dino-Lite Scopes (BigC)	3143
Dorsey Metrology International Inc	3119
ECM Global Measurement Solutions	3008
Fagor Automation Corp	2123
Fastenal Company	5575
Fischer Technology Inc	5738
Fixtureworks	5766
Fowler High Precision Inc	3251
Haimer USA	5458
Heidenhain Corp	1634
Hermann Schmidt Co	1723
Holts Precision Inc	3156, 5419
J & L Metrology Inc	3255
Johnson Gage Co	3042
Judge Tool & Gage	3138
Laser Measuring Technologies LLC	3122
Marposs Corp	1644
Metronor Inc	3127
Mitutoyo America Corp	3111

New Scale Robotics	2139
Nikon Metrology Inc	3203
OC White CO	3051
Omega TMM Inc.	5127
Origin Technologies Corp	1854
Paletti USA	3239
Phillips Precision Inc	3342
Pinpoint Laser Systems	3054
Pratt & Whitney	
Measurement Systems Inc	3006
Precision Jig Fixture & Metrology	5831
Quality Plus Inc	3241
Quality Vision International	3003
R&R Fixtures LLC	3318
Renishaw Inc	3151
Rollomatic Inc	1706
Starrett Company	3011, 5045
Thermo Fisher Scientific	339
Verisurf	5036
Verisurf Software Inc	5050
Vision Engineering Inc	3322
Werth Inc	3213
ZEISS Industrial Metrology	3159
Zoller Inc	5436

Metal Finishing

Advanced Coating Service	5624
Aerodynamics Inc	5482
Anoplate Corp	5726
Armology of Connecticut Inc	5246
Brush Research Manufacturing Co	5608
Chemetal US Inc	3234
DuBois Chemicals Inc	5449
Engis Corp	5028
FARO Technologies Inc	3135
JMD Industries Inc	5536
Laroche Foundry Ltd	5362
LS Industries Inc	3043
Lucifer Furnaces Inc	2003
Mikro Industrial Finishing Co	5440
New England Metal Finishing & Precision Finishing Services	5136
Northeast Coating Technologies	5540
Northeast Machinery Sales/FlexCNC	1228
Pauway Corp	5549
Precision Laser Technology LLC	3154
Rock Ridge Abrasives	5743
Smith & Wesson Precision Components	5365
stratus technologies	5743
Vance Metal Fabricators Inc	1824

Metalfforming & Fabricating Equipment

Airgas	1656
Alpha Laser - US	2105
Amada Marvel Inc	2114
Carlson Fabrication Solutions	2128
CLOMEA / 3C	5820
Ercolina - CML USA Inc	1753
FARO Technologies Inc	3135
FlexArm Inc	5541
Flow International Corp	1712
J&S Machine Inc	5820
KAASST Machine Tools Inc	2134
LaserStar Technologies Corp	2100
Lucifer Furnaces Inc	2003
OMAX Corp	1106
Praxair Distribution Inc.	1606
Radyne Corp	1102
Roemheld	5661

Sanken Industry Co. Ltd.	5749
Seyi America	5523
SIMASV	5820
Stamptech Inc	5523
Suhner Industrial Products Inc	5020
Tapeswitch Corporation	336
TRUMPF Inc	2004
Unist	5523
Vance Metal Fabricators Inc	1824
YLM	5820

Metallurgical Equipment & Services

Bonal Technologies Inc	1136
Diacut Inc	3226
Lucifer Furnaces Inc	2003
Modern Industries Inc	5750
New England Miniature Ball	5364
VJ Technologies Inc	5835

Metallurgy

Hardline Heat Treating Inc	2011
Laroche Foundry Ltd	5362
Lucifer Furnaces Inc	2003
New England Miniature Ball	5364
Rolled Alloys	5232

Metals

Admiral Metals	5516
Aerospace Alloys Inc	5729
Aimtek Inc	2108
Aloris Tool Technology Co Inc	5332
Cambridge Vacuum Engineering	5857
Chapin & Bangs Steel Co/ Lindquist Steels Inc	5012
Conley Casting Supply Corp	5739
Datron Dynamics Inc	5240
Hardline Heat Treating Inc	2011
HASCO America Inc.	5010
Laroche Foundry Ltd	5362
Lucifer Furnaces Inc	2003
NESSteel Inc	5033
New England Miniature Ball	5364
Noble Industrial Furnace	3354
Paletti USA	3239
Penn Stainless Products Inc	5043
Peterson Steel Corp	5558
Proto Labs Inc	5752
ReCarb LLC	5642
Rigaku Analytical Devices	3319
Rolled Alloys	5232
SciAps Inc	3125
Service Steel Aerospace Corp	5744
Supra Alloys A Div of TITAN Metal Fabricators Inc	5643
TCI Precision Metals	5030
The Joseph Freedman Co Inc	1772
United Performance Metals	5728
Vela Instruments LLC	5842
Yarde Metals Inc	2039
Zimmermann Inc	2137

Metric Equipment & Tools

Dorsey Metrology International Inc	3119
Fowler High Precision Inc	3251
HASCO America Inc.	5010

Holts Precision Inc	3156, 5419
J & L Metrology Inc	3255
Johnson Gage Co	3042
Judge Tool & Gage	3138
Laser Measuring Technologies LLC	3122
Mitutoyo America Corp	3111
New Scale Robotics	2139
Paletti USA	3239
Quality Plus Inc	3241
Thermo Fisher Scientific	339

Micro Manufacturing

Air Turbine Tools	5753
Amada Miyachi America	2101
GF Machining Solutions	1420, 1620
Heidenhain Corp	1634
LaserStar Technologies Corp	2100
Makino Inc	1236
Marubeni Citizen Cincom	1406
NSK America Corp	5344
OMAX Corp	1106
Precision Laser Technology LLC	3154
Precision Punch Corp	5633
Ram Precision Tool Inc	1626
REGO-FIX Tool Corp	5320
Sanken Industry Co. Ltd.	5749
Saturn Industries Inc	1237
Tru Tech Systems Inc	1830
Vision Engineering Inc	3322
Yamazen Inc	1005

Milling Cutters End Mills

ANCA Inc	1244
ARCH Cutting Tools & Beamer Laser Marking Systems	5666
Big Kaiser Precision Tooling Inc	5248
Butler Bros	5637
Carbide Grinding Co Inc	5341
Carbide Related Technologies, Inc.	5765
Carmex Precision Tools LLC	5016
Ceratizit	1118
Contour360	5559
Controx Inc	5571
Cutler Industrial Sales	5469
Datron Dynamics Inc	5240
EM Benson Co	5141
Emuge Corp	5369
Fastenal Company	5575
Fullerton Tool Co	5736
Greenleaf Corp	5317
Guhring Inc	5333
GWS Tool Group	5621
GWS/Benchmark Carbide	1118
Hassay Savage Co	5774
HORN USA Inc	5353
Internal Tool	5853
Kyocera Precision Tools Inc	5573
Lexington Cutter	5469
Lindco Springfield Co	1118
LMT Onsrud Tooling	1035
Lovejoy Tool Co	5242
Mach 1 Systems Inc	1725
MAPAL Inc	5327
Mikron Corp Monroe	5426
Mitsubishi Materials USA	5468
Nexgen Tooling	5747
NTK Cutting Tools	5564
OG Bell Co	5767
OSG USA INC	5652
ReCarb LLC	5642
Sandvik Coromant	1118

SIMTEK USA Inc.	5636
Tool-Flo Manufacturing Inc	5519
Turpin Sales & Marketing Inc	5570
US Tool Group Inc	5626
Vollmer Of America	1158
YG-1	1118
YG-1 Tool Co	5474

Milling Machines -Type

Acer Group	1705
Air Turbine Tools	5753
Alpha Grainger Manufacturing	5683
Amada Machine Tools America	1754
American Systems & Equipment Corp	1022
Atrump Machinery Inc	1762
Babin Machine Tool	1743
Buffoli North America	2041
CNC Systems Inc	1328
Cutler Industrial Sales	5469
Datron Dynamics Inc	5240
Dynamic International	1454
Edac Technologies	5553
EMAG LLC	1045
Fives Giddings & Lewis	1620
FlexCNC	1228
GF Machining Solutions	1420
Haas Factory Outlet - Trident	1218
Hardinge Inc	5444
Hawkeye Innovation LLC	5838
INIRAM Precision Machine Tool Inc	1468
KAASST Machine Tools Inc	2134
Kitagawa-NorthTech Inc.	1152
Mach 1 Systems Inc	1725
Makino Inc	1236
Mandelli 5 Axis Machining Centers	1662
Methods Machine Tools Inc	2034
Mitsubishi EDM / MC Machinery Systems Inc	1426
Northfield Precision Instrument Corp	5508
Northland Tool & Electronics	5828
Ohtori 5 Axis Machining Centers	1662
Penn Stainless Products Inc	5043
Pocket NC Company	5008
Rice Machinery Inc	1734
Sir Meccanica SpA	5445
SpiderCool	1241
SW North America Inc	1726
Syil America Inc	1808
The Robert E. Morris Company	5464
Trak Machine Tools	1434
Yamazen Inc	1005
Zimmermann Inc	2137

Modular Fixturing

Advanced Machine & Engineering	5843
Blue Photon Technology & Workholding Systems LLC	5734
Carr Lane Manufacturing/ Carr Lane Roemheld	5659
Dorner Mfg	5523
Erowa Technology Inc	1628
Fixtureworks	5766
Haimer USA	5458
Halder Inc	5427
Hirschmann Engineering USA Inc	1231
Huron Machine Products	5000
INIRAM Precision Machine Tool Inc	1468
item Northeast	1861
Jergens Inc	5644
Lang Technovation Co	5483
Mitee-Bite Products LLC	5459

Modern Industries Inc	5750
Paletti USA	3239
PAWS Workholding	5866
Phillips Precision Inc	3342
R&R Fixtures LLC	3318
Ram Precision Tool Inc	1626
Roemheld	5661
Samchully Workholding	5469
SMW Autoblok Corp	2013
Strong Hand Tools	5627
TE-CO	5463
TRIAG	5843
Vention	329

Molding

Conley Casting Supply Corp	5739
Da/Pro Rubber Inc	340
Precision Laser Technology LLC	3154
Proto Labs Inc	5752
Sanken Industry Co. Ltd.	5749

Moldmaking

Air Turbine Tools	5753
Amada Machine Tools America	1754
Autodesk Inc	5326
Conley Casting Supply Corp	5739
Curbell Plastics Inc	5771
HASCO America Inc.	5010
Lucifer Furnaces Inc	2003
NSK America Corp	5344
OC White CO	3051
Poco Graphite	1227
Precision Laser Technology LLC	3154
Ram Precision Tool Inc	1626
Sanken Industry Co. Ltd.	5749
Tru Tech Systems Inc	1830
Vlier Products	5526

MRP/MRP II Systems

LillyWorks Scheduling & ERP Software	5763
ProShop ERP	5847
VKS - Visual Knowledge Share	5370

Nano Technology

ABTech Inc	3012
Cambridge Vacuum Engineering	5857
GF Machining Solutions	1620
Heidenhain Corp	1634
Mitutoyo America Corp	3111
NSK America Corp	5344
Preco Inc	5237
REGO-FIX Tool Corp	5320
Ultraflex Power Technologies Corp	1138

Noise Reduction & Control

Aquest Corp	3347
Harvey Industries International Inc	3343
Nordfab Ducting	3025

Numerical Control Equipment

Babin Machine Tool	1743
Electronic Service Products	1620
Fagor Automation Corp	2123
Heidenhain Corp	1634
INIRAM Precision Machine Tool Inc	1468
Mitsubishi Electric Automation Inc	1140
Siemens Industry Inc	2012

Oil Mist Collectors

AER Control Systems LLC	5762
Air Cleaning Specialist	5509
Air Filtration Systems	3059
Airflow Systems Inc	3309
Aquest Corp	3347
Blast & Wash Systems	5509
Custom Service Solutions Inc	3218
Ebbco Inc	1727
Eclipse Magnetics	3022
EM Benson Co	5141
Ketcham & Co Inc	3306
Lindco Springfield Co	1118
Marubeni Citizen Cincom	1406
Mikro Industrial Finishing Co	5440
Modern Tools Inc	1127
Nordfab Ducting	3025
Royal Products	5469

Star CNC Machine Tool Corp / Eurotech Elite	1444
Tru Tech Systems Inc	1830
Wickman Machine Tool Inc	1822
Winslow Engineering Inc	2109
Yuasa International	1748

Optical Equipment

4D Technology Corp	3211
ABTech Inc	3012
Accurex Measurement Inc	3139
Capture 3D Inc	3044
Certified Comparator Products (CCP)	3003
Cimquest Inc	5036
Dino-Lite Scopes (BigC)	3143
Dorsey Metrology International Inc	3119
Euro-Tech Corp	5336
Fagor Automation Corp	2123
Flexbar Machine Corp	3157
Fowler High Precision Inc	3251
Glastonbury Southern Gage Thread & Cylindrical Gages And Masters	3254
Gradient Lens Corporation	3150
Hexagon Manufacturing Intelligence	3103
Holts Precision Inc	3156, 5419
J & L Metrology Inc	3255
Judge Tool & Gage	3138
Keyence Corp of America	2042, 3029
Koma Precision Inc	5359
L.F.O'leary Co.Inc/ Glastonbury Southern Gage	3254
Laser Measuring Technologies LLC	3122
Marposs Corp	1644
Metrologic Group Services	3228
Metronor Inc	3127
Mitutoyo America Corp	3111
Nikon Metrology Inc	3203
North Coast Technical	1865
OASIS Inspection Systems	3050
OC White CO	3051
Olympus America Inc	1766
Optical Gaging Products	3003
Pinpoint Laser Systems	3054

Pratt & Whitney	
Measurement Systems Inc	3006
Precision Jig Fixture & Metrology	5831
Quality Plus Inc	3241
Quality Vision International	3003
RAM	3003
Starrett Company	3011, 5045
Teledyne Dalsa	3145
Thermo Fisher Scientific	339
Vision Engineering Inc	3322
Wenzel America Ltd	3223
Werth Inc	3213
Winslow Engineering Inc	2109
ZEISS Industrial Metrology	3159
Zoller Inc	5436

Packaging Materials & Processes

Branson Ultrasonics Corp	3235
Decade Products Inc	3317
Dorner Mfg	5523
Elm Electrical	1852
Liberty Packaging Co	3227
Numberall Stamp & Tool Co	1142
Tapeswitch Corporation	336

Palletizers

Belmont Equipment & Technologies	1248
Dorner Mfg	5523
Erowa Technology Inc	1628
Hirschmann Engineering USA Inc	1231
INIRAM Precision Machine Tool Inc	1468
Jergens Inc	5644
JH Robotics Inc	1462
Kitagawa-NorthTech Inc.	1152
Mitee-Bite Products LLC	5459
Ram Precision Tool Inc	1626
SMW Autoblok Corp	2013
TRIAG	5843
Vektak LLC	5026

Parts Feeders

Ajax Tocco Magnethermic Corp	1026
Atlas Copco Tools/Palmac	1134
Yuasa International	1748

Parts Identification & Marking Systems

Amada Miyachi America	2101
ARCH Cutting Tools & Beamer Laser Marking Systems	5666
Dapra Marking Systems	2037
Dorner Mfg	5523
FOBA Laser Marking + Engraving I Alltec GmbH	3341
Gibson Engineering Co Inc	3045
JH Robotics Inc	1462
Laser Marking Technologies LLC	2029
LaserStar Technologies Corp	2100
Marksman represented by Millennium Signatures Marking Systems Inc	3305
MB Metal Technologies LLC	2009
Minuteman / Empire Automation Systems	3301
Monode	5682
Numberall Stamp & Tool Co	1142
Pauway Corp	5549

Precision Laser Technology LLC	3154
SIC Marking USA Inc	323
SISMA USA Inc	2104
Telesis Technologies Inc	2005
The Robert E. Morris Company	5464
TRUMPF Inc	2004
TYKMA Electro	3035
Wickman Machine Tool Inc	1822

Plant Layout & Design Services

Houghton International Inc	5560
VJ Technologies Inc	5835

Plant Maintenance Services

Acorn Industrial Products Co	5415
Darex LLC	5676
Elm Electrical	1852
Houghton International Inc	5560
Lubrication Technologies Inc	5737
Modula Inc	1254
Pro Ultrasonics	3055
Sir Meccanica SpA	5445
The Hope Group	5858
VJ Technologies Inc	5835
Wickman Machine Tool Inc	1822

Plasma Cutting & Welding

Advance Welding	5870
Aimtek Inc	2108
Airgas	1656
Carlson Fabrication Solutions	2128
Cincinnati Inc	1844
Fluid Chillers	1001
Fronius USA LLC	1737
Machitech Automation	1656
Miller Electric	1656
Millinocket Fabrication & Machine LLC	2126
Multicam East	1035
Penn Stainless Products Inc	5043
Praxair Distribution Inc.	1606
Vance Metal Fabricators Inc	1824
Yarde Metals Inc	2039

Plastic Products

Curbell Plastics Inc	5771
Decade Products Inc	3317
Optinova Americas Inc.	5772
Plastics International	5366
Sanken Industry Co. Ltd.	5749
Tapeswitch Corporation	336

Plastics Machining

Branson Ultrasonics Corp	3235
CIMCO Americas LLC	5716
Curbell Plastics Inc	5771
HPM Technologie GmbH	5765
Lucifer Furnaces Inc	2003
Multicam East	1035
OMAX Corp	1106
Plastics International	5366
Precision Laser Technology LLC	3154
Proto Labs Inc	5752

Plastics Molding

Autodesk Inc	5326
Da/Pro Rubber Inc	340
Plastics International	5366
Poco Graphite	1227
Pro Ultrasonics	3055
Proto Labs Inc	5752
Sanken Industry Co. Ltd.	5749
Tapeswitch Corporation	336

Plastics Processing

Conley Casting Supply Corp	5739
Optinova Americas Inc.	5772
Pauway Corp	5549
Plastics International	5366
Sanken Industry Co. Ltd.	5749

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Brush Research Manufacturing Co	5608
Burr King Manufacturing Co	1713
Carlson Fabrication Solutions	2128
EDM Network Inc	1648
Garboli	5820
Gesswein Co	5653
J&S Machine Inc	5820
Mikro Industrial Finishing Co	5440
Nagel Precision Inc	5850
New England Metal Finishing & Precision Finishing Services	5136
New England Sales Inc	2026
NSK America Corp	5344
Okamoto Corp	1044
Rock Ridge Abrasives	5743

Pollution Control

ACM Technologies	3124
AER Control Systems LLC	5762
Air Filtration Systems	3059
Airflow Systems Inc	3309
Aquest Corp	3347
Custom Service Solutions Inc	3218
DuBois Chemicals Inc	5449
Keller Products Inc	3057
Ketcham & Co Inc	3306
MAYFRAN	5469
Pro Ultrasonics	3055
Royal Products	5469
Unist	5523
Ventilation USA LLC	3018

Portable Power Tools

Acorn Industrial Products Co	5415
Air Turbine Tools	5753
Atlas Copco Tools/Palmac	1134
Dynabrade Inc	5677
General Manufacturing Inc	1863
HEM Inc	2038
Sir Meccanica SpA	5445
TRUMPF Inc	2004

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Heidenhain Corp	1634
Hiwin Corporation	3034
Omron	3328
Parker	5858
Pearse-Bertram LLC	3245
Pinpoint Laser Systems	3054
Renishaw Inc	3151
The Hope Group	5858
Vention	329

Positioning Systems

Axis New England	3328
Blum-Novotest, Inc.	5432
Control Gaging Inc	3224
CPU Automation Inc	3145
Dorner Mfg	5523
Fagor Automation Corp	2123
GKS Lifting and Moving Solutions LLC	3325
Hiwin Corporation	3034
Infranor	3145
Omron	3328
Parker	5858
Parker Hannifin	3328
Pearse-Bertram LLC	3245
Pinpoint Laser Systems	3054
Sanyo Denki	3145
The Hope Group	5858
Two Technologies Inc	3326
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Verisurf Software Inc	5050

Power Transmission Equipment

General Manufacturing Inc	1863
GKS Lifting and Moving Solutions LLC	3325

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Carlson Fabrication Solutions	2128
Dake	5469
J&S Machine Inc	5820
KAASST Machine Tools Inc	2134
Numberall Stamp & Tool Co	1142
Praxair Distribution Inc.	1606
Rapid Air	5523
Seyi America	5523
SIMASV	5820
Stamptech Inc	5523
Taylor-Winfield Technologies Inc	2107
Vance Metal Fabricators Inc	1824

Preventive Maintenance

ACM Technologies	3124
Acorn Industrial Products Co	5415
Action Bearing Co	5514
Air Inc	3039
Airline Hydraulics Corp	1820
BUWW Coverings Inc	3335
Custom Service Solutions Inc	3218
Darex LLC	5676
DuBois Chemicals Inc	5449
Elm Electrical	1852
Eureka Chemical Co	3243
GTI Spindle Technology Inc	5562
Lubrication Technologies Inc	5737

MachineMetrics	5037
MCRL Inc / Fluid Chillers	1001
Noble Industrial Furnace	3354
Northeast Machinery Sales/FlexCNC	1228
Pinpoint Laser Systems	3054
Pro Ultrasonics	3055
The Hope Group	5858

Production & Inventory Control

LillyWorks Scheduling & ERP Software	5763
MachineMetrics	5037
Modula Inc	1254
Nysus Solutions LLC	3259
Zoller Inc	5436

Production Monitoring Systems

ATAGO USA Inc	5745
Caron Engineering Inc	5432
CPU Automation Inc	3145
Digipas Technologies Inc	5340
Dynics Inc.	3145
LillyWorks Scheduling & ERP Software	5763
Macdac Engineering	5233
MachineMetrics	5037
Nexas America LLC	5527
Nysus Solutions LLC	3259
Scytec Consulting Inc.	5527
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Axis New England	3328
CPU Automation Inc	3145
Fagor Automation Corp	2123
IDEC	5858
Macdac Engineering	5233
Mitsubishi Electric Automation Inc	1140
Omron	3328
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Siemens Industry Inc	2012
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Omni Services	5612
Roemheld	5661
Star CNC Machine Tool Corp / Eurotech Elite	1444
Walrus America Inc	5748

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Precision Punch Corp	5633
Proto Labs Inc	5752
Rapid Air	5523
Seyi America	5523
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Dorner Mfg	5523
KAASST Machine Tools Inc	2134
Northeast Machinery Sales/FlexCNC	1228
Rapid Air	5523
Tapeswitch Corporation	336
Vance Metal Fabricators Inc	1824

Quality Evaluation Service

Dorsey Metrology International Inc	3119
GTI Spindle Technology Inc	5562
Holts Precision Inc	3156, 5419
item Northeast	1861
Kyzen Corporation	3027
Metronor Inc	3127
Penn Stainless Products Inc	5043

Rapid & Additive Manufacturing

3D Systems	5241
Alpha Additive Manufacturing Technologies	5615
American Society of Mechanical Engineers	5751
Autodesk Inc	5326
Blue Photon Technology & Workholding Systems LLC	5734
CAD BLU Inc	5840
CGTech	5350
Cimquest Inc	5036
Curbell Plastics Inc	5771
FARO Technologies Inc	3135
Gesswein Co	5653
GF Machining Solutions	1420
Matthackers	5848
R & D Technologies	5776
Siemens Industry Inc	2012
SISMA USA Inc	2104
SLM Solutions NA Inc	5733
Ultimaker	5732
Vention	329

Rebuilding Remanufacturing & Retrofitting

Airline Hydraulics Corp	1820
Babin Machine Tool	1743
Control Gaging Inc	3224
Edac Technologies	5553
Electronic Service Products	1620
EMAG LLC	1045
Fagor Automation Corp	2123
G II Solutions Inc	1253
GTI Spindle Technology Inc	5562
J & L Metrology Inc	3255
Kasto Inc	1661
Mach 1 Systems Inc	1725
Marposs Corp	1644
MCRL Inc / Fluid Chillers	1001
Mikro Industrial Finishing Co	5440
Nagel Precision Inc	5850
Noble Industrial Furnace	3354
Northland Tool & Electronics	5828
Pauway Corp	5549
Pro Ultrasonics	3055
Renishaw Inc	3151
Rice Machinery Inc	1734
Ross Machinery Sales Inc	1620
Sauter North America Inc	5423
Siemens Industry Inc	2012
Stamptech Inc	5523
Syntec Technology Inc	5130
Taylor-Winfield Technologies Inc	2107
Toyoda Americas Corporation	1034
Tru Tech Systems Inc	1830
Wenzel America Ltd	3223
Wickman Machine Tool Inc	1822
Winslow Engineering Inc	2109
WTO USA	5223

Recycling Equipment

ACM Technologies	3124
Aquest Corp	3347
Automation Engineering Co	5759
Brucker Corporation	3026
Crest Ultrasonics Corp	3058
Custom Service Solutions Inc	3218
Decade Products Inc	3317
Ebbco Inc	1727
Eclipse Magnetics	3022
Jorgensen Conveyors, Inc.	5759
Keller Products Inc	3057
Ketcham & Co Inc	3306
Lindco Springfield Co	1118
Mayfran	5469
MCRL Inc / Fluid Chillers	1001
New England Sales Inc	2026
ReCarb LLC	5642
RUF Briquetting Systems	3023, 5759
SciAps Inc	3125
stratus technologies	5743
Takachiho America Inc.	5741
UNTHA Shredding Technologies	5759
Vela Instruments LLC	5842
Weima America Inc	335

Renewable Energy

American Society of Mechanical Engineers	5751
Cambridge Vacuum Engineering	5857
Purex Inc	2102
Sprague Operating Resources LLC	3313

Research & Development Services

American Society of Mechanical Engineers	5751
Dorsey Metrology International Inc	3119
Penn Stainless Products Inc	5043
Plastics International	5366
Saturn Industries Inc	1237

Reverse Engineering

Accurex Measurement Inc	3139
Autodesk Inc	5326
BUWW Coverings Inc	3335
Capture 3D Inc	3044
Cimquest Inc	5036
ECM Global Measurement Solutions	3008
Hexagon Manufacturing Intelligence	3103
J & L Metrology Inc	3255
Kalow Technologies	5821
Macdac Engineering	5233
Mastercam/CNC Software Inc	5249
NCSIMUL Hexagon	
Manufacturing Intelligence	5358
North Coast Technical	1865
Perry Technology Corp	5623
Precision Jig Fixture & Metrology	5831
Swoosh Technologies	5338
Verisurf Software Inc	5050
ZEISS Industrial Metrology	3159

Robots Equipment Tooling & Accessories

ABB	3301
Aimtek Inc	2108
Air Inc	3039
Airgas	1656
Axis New England	3328
Capture 3D Inc	3044
Carlson Fabrication Solutions	2128
CGTech	5350
Cubic Machinery Inc	1021
Dorner Mfg	5523
Elm Electrical	1852
EM Benson Co	5141
Erowa Technology Inc	1628
FANUC America Corp	1018
Force Automation	5509
Gibson Engineering Co Inc	3045
Hiwin Corporation	3034
JH Robotics Inc	1462
Kolver	5619
Koma Precision Inc	5359
MIDACO Corp	1858
Minuteman / Empire Automation Systems	3301
Modula Inc	1254
New Scale Robotics	2139
North Coast Technical	1865
Northeast Machinery Sales/FlexCNC	1228
Nysus Solutions LLC	3259
Omron	3328
Parker Hannifin	3328
Praxair Distribution Inc.	1606
Ram Precision Tool Inc	1626
Schunk Inc	5433
Star CNC Machine Tool Corp / Eurotech Elite	1444
Syntec Technology Inc	5130
Taylor-Winfield Technologies Inc	2107
The Robert E. Morris Company	5464
Two Technologies Inc	3326

Universal Robots	3328
Universal Robots USA Inc	1017
Vention	329
VJ Technologies Inc	5835
Zoller Inc	5436

Roll Forming Mills Rolls

Conley Casting Supply Corp	5739
Millinocket Fabrication & Machine LLC	2126
Praxair Distribution Inc.	1606
Vance Metal Fabricators Inc	1824

Rotary Tables

ABTech Inc	3012
Babin Machine Tool	1743
Belmont Equipment & Technologies	1248
Faxon Engineering	1768
Gibson Engineering Co Inc	3045
Hardinge Inc	5444
Herrmann Schmidt Co	1723
Hirschmann Engineering USA Inc	1231
Hiwin Corporation	3034
Jergens Inc	5644
Kitagawa-NorthTech Inc.	1152
Koma Precision Inc	5359
Lyndex-Nikken Inc	5533
OMAX Corp	1106
Parker Hannifin	3328
Platinum Tooling	5146
R&R Fixtures LLC	3318
Renishaw Inc	3151
Ross Machinery Sales Inc	1620
Samchully Workholding	5469
Sauter North America Inc	5423
Schunk Inc	5433
Strong Hand Tools	5627
Yuasa International	1748

Safety & Protection Equipment

Air Inc	3039
Aquest Corp	3347
Butler Bros	5637
CPU Automation Inc	3145
Custom Service Solutions Inc	3218
Ergo Advantage	5617
General Manufacturing Inc	1863
Gibson Engineering Co Inc	3045
Multicam East	1035
Nordfab Ducting	3025
Pinnacle Systems	1035
Plastics International	5366
Rotarex Inc NA	5583
Royal Products	5469
Stamptech Inc	5523
Swivellink	3145
Wieland	3145

Sandblasting

Advanced Coating Service	5624
Force Automation	5509
Laroche Foundry Ltd	5362
Mikro Industrial Finishing Co	5440
Millinocket Fabrication & Machine LLC	2126
New England Metal Finishing & Precision Finishing Services	5136
Pauway Corp	5549
Rice Machinery Inc	1734

Rock Ridge Abrasives	5743
Smith & Wesson Precision Components	5365
stratus technologies	5743
Vance Metal Fabricators Inc	1824

Sanding Equipment

Blast & Wash Systems	5509
Blast it All	5509
Carlson Fabrication Solutions	2128
Gibson Abrasive Equipment	5509
Rock Ridge Abrasives	5743
stratus technologies	5743
Vapor Honing Technologies	5509

Saw Blades

Advanced Machine & Engineering	5843
Amada Machine Tools America	1754
Amada Marvel Inc	2114
ANCA Inc	1244
Butler Bros	5637
Controx Inc	5571
Cosen Saws	2142
Dake	5469
Diacut Inc	3226
DoALL Sawing Products	2133
Doringer Cold Saws	2035
Engis Corp	5028
Fastenal Company	5575
Fullerton Tool Co	5736
Genevieve Swiss Industries Inc	5133
Lexington Cutter	5469
Lindco Springfield Co	1118
Martindale Electric Co	5719
Maxtool Corp.	5002
OG Bell Co	5767
Starrett Company	3011, 5045

Saw Sharpening

Controx Inc	5571
Fullerton Tool Co	5736
Martindale Electric Co	5719
OG Bell Co	5767

Sawing Machines & Systems

Advanced Machine & Engineering	5843
Amada Machine Tools America	1754
Amada Marvel Inc	2114
Behringer Saws Inc	2000
Cosen Saws	2142
Dake	5469
DoALL Sawing Products	2133
Doringer Cold Saws	2035
HEM Inc	2038
Hyd-Mech Group Ltd	2122
KAASST Machine Tools Inc	2134
Kasto Inc	1661
Laser Measuring Technologies LLC	3122
MetalMizer	1814
Northeast Machinery Sales/FlexCNC	1228
Pat Mooney Inc.	1228
Penn Stainless Products Inc	5043
Racer Machinery International Inc	1638
Ross Machinery Sales Inc	1620
Yuasa International	1748

Screw Machining

Air Filtration Systems	3059
Alpha Grainger Manufacturing	5683
Arnold Supply Inc	5548
Buffoli North America	2041
Butler Bros	5637
Cubic Machinery Inc	1021
Hygrade Precision Technologies	5566
Marubeni Citizen Cincom	1406
REGO-FIX Tool Corp	5320
Saturn Industries Inc	1237
Somma Tool Co	5542
Wickman Machine Tool Inc	1822

Screwdrivers Automatic Electric & Pneumatic

Atlas Copco Tools/Palmac	1134
Kolver	5619

Seals & Sealants

Action Bearing Co	5514
Curbell Plastics Inc	5771
Omni Services	5612
Parker	5858
The Hope Group	5858

Sensors

Axis New England	3328
Baumer	3301
Caron Engineering Inc	5432
Digipas Technologies Inc	5340
Marposh Corp	1644
Minuteman / Empire Automation Systems	3301
Mitutoyo America Corp	3111
Omron	3328
Parker	5858
Pearse-Bertram LLC	3245
Pinpoint Laser Systems	3054
Quality Vision International	3003
Renishaw Inc	3151
The Hope Group	5858
Wieland	3145

Servo Equipment & Repair

Axis New England	3328
Copley Controls	3328
CPU Automation Inc	3145
Fagor Automation Corp	2123
Infranor	3145
Mitsubishi Electric Automation Inc	1140
Omron	3328
Parker Hannifin	3328
Sanyo Denki	3145
Siemens Industry Inc	2012

Shears

Carlson Fabrication Solutions	2128
Cincinnati Inc	1844
KAASST Machine Tools Inc	2134
Praxair Distribution Inc.	1606
Taylor-Winfield Technologies Inc	2107
TRUMPF Inc	2004
Vance Metal Fabricators Inc	1824

Sheet Metal & Plate Fabrication

Advance Welding	5870
Airgas	1656
Carlson Fabrication Solutions	2128
Flow International Corp	1712
Machitech Automation	1656
Miller Electric	1656
Mitsubishi EDM /	
MC Machinery Systems Inc	1426
Northeast Machinery Sales/FlexCNC	1228
OMAX Corp	1106
Penn Stainless Products Inc	5043
Praxair Distribution Inc.	1606
Precision Punch Corp	5633
Preco Inc	5237
Proto Labs Inc	5752
Sanken Industry Co. Ltd.	5749
Seyi America	5523
TRUMPF Inc	2004
Vance Metal Fabricators Inc	1824

Software - ERP/MRP/CIM

Dynics Inc.	3145
LillyWorks Scheduling & ERP Software	5763
Macdac Engineering	5233
MachineMetrics	5037
Nysus Solutions LLC	3259
ProShop ERP	5847
QAD Inc	1869
ShopFloorConnect	5668
VJ Technologies Inc	5835
VKS - Visual Knowledge Share	5370

Software ERP/MRP & Supply Chain Management

Dassault Systemes	5233
ECi Software Solutions	5532
Epicor Software Corp	3240
High QA, Inc	341
LillyWorks Scheduling & ERP Software	5763
Macdac Engineering	5233
MachineMetrics	5037
ProShop ERP	5847
Realtrac ERP	5721
ShopFloorConnect	5668
Shoptech	5552
WireFreeCNC	5233

Software Off-Line Programming

Access Manufacturing Systems	5452
ANCA Inc	1244
CPU Automation Inc	3145
Dassault Systemes	5233
Griffo Brothers Inc	5034
MastercamÆ	5233
MULTICAM EAST	1035
Omron	3328
Quality Vision International	3003

Software Quality Control & Inspection Systems

Accurex Measurement Inc	3139
Blum-Novotest, Inc.	5432
Capture 3D Inc	3044
Caron Engineering Inc	5432
Certified Comparator Products (CCP)	3003
CPU Automation Inc	3145
Dino-Lite Scopes (BigC)	3143
DISCUS Software Company	3238
ECi Software Solutions	5532
ECM Global Measurement Solutions	3008
Euro-Tech Corp	5336
FARO Technologies Inc	3135
Fowler High Precision Inc	3251
Glastonbury Southern Gage Thread & Cylindrical Gages And Masters	3254
GTI Spindle Technology Inc	5562
Helmel Engineering Products Inc	3207
Hexagon Manufacturing Intelligence	3103
High QA, Inc	341
Holts Precision Inc	3156, 5419
InnovMetric Software Inc	3244
ITACA	3003
Johnson Gage Co	3042
Judge Tool & Gage	3138
Keyence Corp of America	3029
Koma Precision Inc	5359
KOTEM	3003
L.F.O'leary Co.Inc/	
Glastonbury Southern Gage	3254
Laser Measuring Technologies LLC	3122
Marposh Corp	1644
Metrologic Group Services	3228
Metronor Inc	3127
Mitutoyo America Corp	3111
Nexas America LLC	5527
Nikon Metrology Inc	3203
Nysus Solutions LLC	3259
OASIS Inspection Systems	3050
Optical Gaging Products	3003
Origin Technologies Corp	1854
Pinpoint Laser Systems	3054
Pratt & Whitney	
Measurement Systems Inc	3006
Quality Plus Inc	3241
Quality Vision International	3003
RAM	3003
ShapeGrabber 3D Scanners	3003
Starrett Company	3011, 5045
Swoosh Technologies	5338
Teledyne Dalsa	3145
Thermo Fisher Scientific	339
Verisurf Software Inc	5050
VKS - Visual Knowledge Share	5370
Wenzel America Ltd	3223
Winslow Engineering Inc	2109
ZEISS Industrial Metrology	3159
Zoller Inc	5436

Software Shop Floor Control Systems

Caron Engineering Inc	5432
CIMCO Americas LLC	5716
CPU Automation Inc	3145
Dassault Systemes	5233
Dynics Inc.	3145
ECi Software Solutions	5532
Epicor Software Corp	3240
LillyWorks Scheduling & ERP Software	5763
Macdac Engineering	5233

A photograph of a man and a woman in a professional setting. The man, on the left, has grey hair and a mustache, and is wearing a light blue button-down shirt. He is leaning forward, pointing with his right index finger at a small, silver, cylindrical mechanical component that is resting on a white rectangular block. The woman, on the right, has dark hair pulled back and is wearing a dark blue button-down shirt. She is looking intently at the component and has her hands positioned as if she is about to touch it or is gesturing while speaking. The background is a blurred office or laboratory environment with large windows.

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MachineMetrics	5037
Nexas America LLC	5527
Quality Vision International	3003
Realtrac ERP	5721
Scytec Consulting Inc.	5527
ShopFloorConnect	5668
Shoptech	5552
Siemens Industry Inc	2012
Swoosh Technologies	5338
VKS - Visual Knowledge Share	5370
WireFreeCNC	5233
Zoller Inc	5436

Software Simulation

Access Manufacturing Systems	5452
AutoForm Engineering USA Inc	5467
LillyWorks Scheduling & ERP Software	5763
NCSIMUL Hexagon	
Manufacturing Intelligence	5358
Swoosh Technologies	5338

Software Simulation Process Modeling

CGTech	5350
CIMCO Americas LLC	5716
LillyWorks Scheduling & ERP Software	5763
MachineMetrics	5037
NCSIMUL Hexagon	
Manufacturing Intelligence	5358
Zoller Inc	5436

Software SPC/SQC

Capture 3D Inc	3044
Caron Engineering Inc	5432
DISCUS Software Company	3238
Dynics Inc.	3145
ECi Software Solutions	5532
Hexagon Manufacturing Intelligence	3103
High QA, Inc	341
Holts Precision Inc	3156, 5419
Judge Tool & Gage	3138
KOTEM	3003
L.F.O'leary Co.Inc/ Glastonbury Southern Gage	3254
Marposs Corp	1644
Metrologic Group Services	3228
Nysus Solutions LLC	3259
Quality Vision International	3003
Verisurf	5036
Verisurf Software Inc	5050
VKS - Visual Knowledge Share	5370

Sorting & Separating Equipment

Derner Mfg	5523
Elm Electrical	1852
GKS Lifting and Moving Solutions LLC	3325
MAYFRAN	5469
Modula Inc	1254
The Joseph Freedman Co Inc	1772
Vela Instruments LLC	5842

Spindle Machines

Air Turbine Tools	5753
Aloris Tool Technology Co Inc	5332
Buffoli North America	2041
Fluid Chillers	1001
GTI Spindle Technology Inc	5562
Mach 1 Systems Inc	1725
Methods Machine Tools Inc	2034
New England Sales Inc	2026
Northland Tool & Electronics	5828
NSK America Corp	5344
Suhner Industrial Products Inc	5020
SW North America Inc	1726

Spindle Tooling

Air Turbine Tools	5753
Aloris Tool Technology Co Inc	5332
ARCH Cutting Tools & Beamer Laser Marking Systems	5666
Big Kaiser Precision Tooling Inc	5248
Briney Tooling Systems	5736
Centaur Precision Tools Inc	5512
Chumpower Machinery Corp	5770
Emuge Corp	5369
Genevieve Swiss Industries Inc	5133
GF Machining Solutions	1420
GTI Spindle Technology Inc	5562
Haimer	1118
heimatec GmbH	5146
Henninger	5146
iSwiss Corporation	5616
JM Performance Products Inc	5422
LMT Onsrud Tooling	1035
Lovejoy Tool Co	5242
Mach 1 Systems Inc	1725
MAPAL Inc	5327
NSK America Corp	5344
OSG USA INC	5652
Platinum Tooling	5146
REGO-FIX Tool Corp	5320
Sauter North America Inc	5423

Spindles

ABTech Inc	3012
Advanced Machine & Engineering	5843
Air Turbine Tools	5753
Aloris Tool Technology Co Inc	5332
Chumpower Machinery Corp	5770
Datron Dynamics Inc	5240
Edac Technologies	5553
Fluid Chillers	1001
G II Solutions Inc	1253
GF Machining Solutions	1420
GTI Spindle Technology Inc	5562
Mach 1 Systems Inc	1725
Northland Tool & Electronics	5828
NSK America Corp	5344
Siemens Industry Inc	2012
Suhner Industrial Products Inc	5020
Wickman Machine Tool Inc	1822

Springs

HASCO America Inc.	5010
Vlier Products	5526

Stainless Steel Fabrication & Finishing

Acorn Industrial Products Co	5415
Advance Welding	5870
Aerospace Alloys Inc	5729
Automation Engineering Co	5759
Inter-Lakes Bases, Inc.	5759
J & L Metrology Inc	3255
Lynn Welding	2027
Millinocket Fabrication & Machine LLC	2126
Pauway Corp	5549
Penn Stainless Products Inc	5043
Precision Laser Technology LLC	3154
Proto Labs Inc	5752
Rittal Corp	5035
Sanken Industry Co. Ltd.	5749
TCI Precision Metals	5030
United Performance Metals	5728
Yamazen Inc	1005

Stamping

Monode	5682
Northeast Machinery Sales/FlexCNC	1228
Numberall Stamp & Tool Co	1142
Precision Punch Corp	5633
Rapid Air	5523
Seyi America	5523
Stamptech Inc	5523
Tapeswitch Corporation	336
W & H Stampings & Fineblanking	5550

Systems Integrators

Caron Engineering Inc	5432
Conley Casting Supply Corp	5739
Dermer Mfg	5523
ECM Global Measurement Solutions	3008
Elm Electrical	1852
Fagor Automation Corp	2123
G II Solutions Inc	1253
INIRAM Precision Machine Tool Inc	1468
Macdac Engineering	5233
MachineMetrics	5037
MB Metal Technologies LLC	2009
Nexas America LLC	5527
Nysus Solutions LLC	3259
Preco Inc	5237
Rittal Corp	5035
Seeburger Inc	5844
Taylor-Winfield Technologies Inc	2107
The Hope Group	5858

Table Systems

ABTech Inc	3012
Hiwin Corporation	3034
item Northeast	1861
Jergens Inc	5644
Mitee-Bite Products LLC	5459
R&R Fixtures LLC	3318
SMW Autoblok Corp	2013
Stor-Loc Corp	5712
Strong Hand Tools	5627
TRIAG	5843
Workplace Modular Systems LLC	5658
Zimmermann Inc	2137

Tables Indexing Leveling Slide

Automation Engineering Co	5759
Dorner Mfg	5523

Tapping & Threading Machines

Automation Engineering Co	5759
FlexArm Inc	5541
FlexCNC	1228
Haas Factory Outlet - Trident	1218
Hypneumat/Commander/Snow	5759
Methods Machine Tools Inc	2034
Sir Meccanica SpA	5445
Somma Tool Co	5542
Sugino Corp.	5759
Suhner Industrial Products Inc	5020
Syil America Inc	1808
Syntec Technology Inc	5130

Tapping Attachments

Automation Engineering Co	5759
Big Kaiser Precision Tooling Inc	5248
Briney Tooling Systems	5736
Centaur Precision Tools Inc	5512
Chumpower Machinery Corp	5770
Emuge Corp	5369
Genevieve Swiss Industries Inc	5133
Hypneumat/Commander/Snow	5759
iSwiss Corporation	5616
Mitsubishi Materials USA	5468
REGO-FIX Tool Corp	5320
Sugino Corp.	5759

Tapping Mechanisms

Automation Engineering Co	5759
FlexArm Inc	5541
Hypneumat/Commander/Snow	5759
Methods Machine Tools Inc	2034
Somma Tool Co	5542
Sugino Corp.	5759

Taps & Dies

ANCA Inc	1244
Carmex Precision Tools LLC	5016
Emuge Corp	5369
Fastenal Company	5575
Guhring Inc	5333
iSwiss Corporation	5616
Kyocera Precision Tools Inc	5573
Maxtool Corp.	5002
Mikron Corp Monroe	5426
OSG USA INC	5652
ReCarb LLC	5642
Turpin Sales & Marketing Inc	5570
US Tool Group Inc	5626
YG-1 Tool Co	5474

Testing Equipment & Services

Accurex Measurement Inc	3139
ATAGO USA Inc	5745
Bonal Technologies Inc	1136
Digipas Technologies Inc	5340
Digipas Technologies Inc	5340
Dino-Lite Scopes (BigC)	3143

Gradient Lens Corporation

InnovMetric Software Inc	3244
Nysus Solutions LLC	3259
OC White CO	3051
Quality Vision International	3003
Renishaw Inc	3151
VJ Technologies Inc	5835
VKS - Visual Knowledge Share	5370

Thread Mills

Advent Tool & Manufacturing Inc.	5469
Allied Machine & Engineering	5453
ANCA Inc	1244
Carbide Grinding Co Inc	5341
Carbide Related Technologies, Inc.	5765
Carmex Precision Tools LLC	5016
Contour360	5559
Cutler Industrial Sales	5469
EM Benson Co	5141
Emuge Corp	5369
Genevieve Swiss Industries Inc	5133
Guhring Inc	5333
GWS Tool Group	5621
GWS/Benchmark Carbide	1118
HORN USA Inc	5353
Internal Tool	5853
iSwiss Corporation	5616
Kyocera Precision Tools Inc	5573
Lindco Springfield Co	1118
Maxtool Corp.	5002
Melin Tool Company	5618
Mikron Corp Monroe	5426
Mitsubishi Materials USA	5468
OSG USA INC	5652
Scientific Cutting Tools Inc	5224
SIMTEK USA Inc.	5636
Tool-Flo Manufacturing Inc	5519
Turpin Sales & Marketing Inc	5570
US Tool Group Inc	5626
Vollmer Of America	1158
YG-1	1118
YG-1 Tool Co	5474

Threadmaking Tools

Advent Tool & Manufacturing Inc.	5469
Allied Machine & Engineering	5453
ANCA Inc	1244
BENZ Incorporated	5544
Butler Bros	5637
Carmex Precision Tools LLC	5016
Contour360	5559
Datron Dynamics Inc	5240
Emuge Corp	5369
Genevieve Swiss Industries Inc	5133
Guhring Inc	5333
Internal Tool	5853
iSwiss Corporation	5616
Mikron Corp Monroe	5426
Modern Industries Inc	5750
OC White CO	3051
OSG USA INC	5652
Scientific Cutting Tools Inc	5224
SIMTEK USA Inc.	5636
THINBIT	5348
Tool-Flo Manufacturing Inc	5519
Turpin Sales & Marketing Inc	5570
Vollmer Of America	1158

Tool Monitoring Systems

Caron Engineering Inc	5432
Custom Service Solutions Inc	3218
Electronic Service Products	1620
INIRAM Precision Machine Tool Inc	1468
MachineMetrics	5037
Marposh Corp	1644
NCSIMUL Hexagon	
Manufacturing Intelligence	5358
Nexas America LLC	5527
Pinpoint Laser Systems	3054
Zoller Inc	5436

Toolholders

Allied Machine & Engineering	5453
Aloris Tool Technology Co Inc	5332
ARCH Cutting Tools & Beamer Laser Marking Systems	5666
BENZ Incorporated	5544
Big Kaiser Precision Tooling Inc	5248
Briney Tooling Systems	5736
Butler Bros	5637
Carmex Precision Tools LLC	5016
Centaur Precision Tools Inc	5512
Chumpower Machinery Corp	5770
Cutler Industrial Sales	5469
Electrodes Inc	1128
EM Benson Co	5141
Emuge Corp	5369
Fitz-Rite Products Inc	5645
Genevieve Swiss Industries Inc	5133
GF Machining Solutions	1420
Greenleaf Corp	5317
Guhring Inc	5333
Haimer	1118
Haimer USA	5458
Hardinge Inc	5444
heimatec GmbH	5146
HORN USA Inc	5353
Internal Tool	5853
iSwiss Corporation	5616
JM Performance Products Inc	5422
Koma Precision Inc	5359
Kyocera Precision Tools Inc	5573
Lyndex-Nikken Inc	5533
Mach 1 Systems Inc	1725
MAPAL Inc	5327
Maxtool Corp.	5002
Mitsubishi Materials USA	5468
Modern Industries Inc	5750
Multicam East	1035
NTK Cutting Tools	5564
OSG USA INC	5652
Platinum Tooling	5146
REGO-FIX Tool Corp	5320
Rollomatic Inc	1706
Sauter North America Inc	5423
Schunk Inc	5433
Scientific Cutting Tools Inc	5224
SIMTEK USA Inc.	5636
Somma Tool Co	5542
THINBIT	5348
Tool-Flo Manufacturing Inc	5519
Turpin Sales & Marketing Inc	5570
US Shop Tools	5609
WTO USA	5223
YG-1 Tool Co	5474
Zoller Inc	5436

Tooling Roll Forming

Advance Welding 5870

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