NEW PRODUCT PREVIEW
A SAMPLE OF NEW PRODUCTS SET TO DEBUT AT FABTECH 2021

MAKE IT HERE
NORTH AMERICA’S LARGEST METAL FORMING, FABRICATING, WELDING AND FINISHING EVENT

SEPTEMBER 13–16
McCormick Place / Chicago, IL

2021

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MAKE IT HERE

See, touch and discover the latest technology and innovation you need to transform your business at FABTECH 2021. Explore aisle after aisle of new product launches and equipment demonstrations. Network with peers, learn from the pros and gain insights that will change the game for your career and business.

Register to attend TODAY at fabtechexpo.com

LEARN Gain valuable, can’t-miss insights from best-in-class conference programs that target technical, lean, operational, and managerial segments.

CONNECT Visionary keynotes and expert panels allow attendees to network with peers, exchange best practices, and learn about the latest industry advancements.

COMPARE Discover advanced technologies that improve quality and productivity and compare innovative solutions from world-class exhibitors side-by-side.

HEALTH & SAFETY FIRST

FABTECH leads the way in bringing the industry together in 2021. Our top priority remains the health and safety of all those on-site at the event.

Learn more about what you can expect at the show at fabtechexpo.com/safetyfirst.

MCCORMICK PLACE
2301 S. Martin Luther King Dr.
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LAKESIDE CENTER (East Building)
METALFORM
Finishing
Tube/Pipe

SOUTH BUILDING
Forming & Fabricating
3D/Additive Mfg

NORTH BUILDING
Welding
Welding Automation
Robotics and Industrial Automation

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START PLANNING TODAY!

SHOW ADMISSION
Exhibit-only attendance is FREE if you register by September 9, 2021. Beginning September 10, the cost to attend the exhibits is $50. AWS, FMA, SME, PMA and CCAI members may always attend the exhibits for FREE with a valid member card.

Register today at fabtechexpo.com.

SHOW HOURS
Monday, Sept. 13 .................. 10 AM* – 6 PM
Tuesday, Sept. 14 ................. 9 AM – 5 PM
Wednesday, Sept. 15 ............ 9 AM – 5 PM
Thursday, Sept. 16 ............... 9 AM – 3 PM

*EAST BUILDING (LAKESIDE CENTER) OPENS AT 9 AM

DESTINATION CHICAGO
Chicago has something for everyone. From world-class museums, parks and amazing architecture to shopping on the Magnificent Mile, a wide range of dining options, and much more!

GET THE BEST HOTEL SELECTION AND SAVINGS
Book your stay through onPeak, FABTECH’s Official Hotel Provider, for guaranteed lowest rates and big benefits — including complimentary shuttle service and no booking or service fees! Reserve your rooms early for the best selection and price — hotels sell out quickly.

Visit fabtechexpo.com/accommodations.

Download the FABTECH app to access show info on the go — exhibits, a floor plan, sessions, agenda planner and more at fabtechexpo.com/mobile-app.

Mobile App Sponsored By:
Combination Processing Reimagined
The new TruMatic 3000 fiber

With a revolutionary design that increases quality and productivity, TRUMPF has reimagined combination processing with the new TruMatic 3000 fiber. Unmatched punching and forming capabilities are achieved with the delta drive punching head, which features all-tool rotation, programmable stroke depth and standard descending die for scratch-free processing. Laser cutting on the TruMatic 3000 fiber is consistent and reliable thanks to the renowned TruDisk laser and collision-protected cutting unit. To maximize productivity, the TruMatic 3000 fiber offers automatic loading and a variety of unloading and sorting capabilities, as well as future integration to storage systems. Stop by FABTECH booth A2904 to see how TRUMPF's commitment to advancing technology can benefit you.

See TRUMPF at FABTECH Booth A2904 / www.trumpf.com
### EXHIBITOR LIST (as of June 26, 2021)

#### 3D/ADDITIVE MANUFACTURING
- Air Products and Chemicals Inc
- Creaf orm
- Digilант.net
- EnvisionTEC Inc
- Essentium
- Faspro Technologies Inc
- Formlabs
- Fusion3 3D Printers
- GIE Media Inc
- Manufacturing Automation Systems
- Markforged
- Product Innovation and Engineering LLC
- TIGER-VAC USA INC
- Verisurf Software Inc

#### FINISHING
- Accudraft Paint Booths
- Acme Finishing
- ADF Systems Ltd
- AEREM Industrie Inc
- AFC Finishing Systems / Airblast AFC
- Air and Liquid Systems Inc
- AIS Finishing Systems
- AkzoNobel Powder Coatings
- Alconox
- Alliance Manufacturing Inc
- AM Industrial Group
- American Grinders Inc
- Amibérica Inc
- Arnold Machine Inc
- Automation FMT Parts Washers
- Arrow Cryogenics Inc
- Atotech USA LLC
- Axalta Coating Systems
- AXX Metal Coatings
- B.L. Downey Company LLC
- BEKO Technologies
- Belco Industries Inc
- BiRAS Boya Pazartlama
- Blast Cleaning Technologies
- BlastOne
- BPE Group
- CALDAN Conveyor
- CAPLUGS / SHERCON
- Carbit Paint Co
- Cardinal Paint and Powder
- Carlisle Fluid Technologies
- Catrol / BP Lubricants
- Catalytic Industrial Systems
- Chemical Coaters Assoc International
- ChemQuest Inc
- Circle-Prosco Inc

#### FINISHING
- ClearClad Coatings LLC
- Combustion and Systems Inc
- Cool Clean Technologies LLC
- CPR Systems
- Daifuku America Corporation
- Decoral System USA Corp
- DeFelsko Corp
- Diamond H2O
- Diamond Vogel Paint & Coatings
- Dinamec Systems
- DuBois Chemicals Inc
- Durable Blast Parts LLC
- Dürr Systems, Inc.
- ECO Burn-Off Ovens
- Elcometer Inc
- EPSI Engineered Products and Services Inc
- Ervin Industries
- ESMA Incorporated
- FANUC America Corp
- Fischer Technology Inc
- Fronth North America
- GAT Finishing Systems
- Gema USA Inc
- General Fabrications Corp
- George Koch Sons LLC
- Global Finishing Solutions
- Goff Inc
- Graco Inc
- HafoVac
- Hedson Technologies North America
- Henkel Corp
- Hentzen Coatings Inc
- Heraeus
- HERR Industrial Inc
- Honeywell Safety Products
- Horizon Performance Technologies LLC
- IFS Coatings Inc
- IntelliFinishing
- IPCM International Paint & Coating Magazine
- IST International Surface Technologies
- Keyland Polymer UV Powder LLC
- Klenger Paint Co
- Kyzen Corporation
- LDPi Inc
- LestauSA
- LINE-X Industrial Coatings
- LPI Lift Systems
- LS Industries Inc
- M L Filters

#### FINISHING
- MacDermid Envio Solutions (formerly known as DMP Corporation)
- Master Finish Company
- Mid America Powder Coating
- Midco International Inc
- Midwest Finishing Systems
- Mighty Hook Inc
- Nordson Corp
- Nutro Inc
- Omnirobotic
- Pangborn LLC
- Parker Engineering of America
- Patriot Metal Finishing
- Patriot Powder Coating
- PEM Inc
- Plateco Inc
- Pneu-Mech Systems Mfg
- Pollution Control Products Co
- Powder Coated Tough
- Powder Coating Institute
- Powder-X Coating Systems
- Production Plus Corp
- Products Finishing Magazine
- Quaker Houghton
- RGI Spraybooths.Net
- Richards-Wilcox Inc
- River
- RollSeal Inc
- Ruwac Industrial Vacuums
- Sames Kremlin
- Sata Spray Equipment
- Scientific Industrial Nano Engineering - SINE
- Seymour of Sycamore Inc
- Sherwin-Williams
- Sistem Teknik Makina San Ve Tic AS (Electron)
- Southern Systems International LLC
- Spray Enclosure Technologies
- Spray Systems Inc
- Sprimag Inc
- System Technologies
- TJ Powder Coatings
- The Electrocoat Association
- Therma-Tron-X Inc
- Thermon
- Titan Catalytic
- Transmet Corp
- Trimag Industrial Systems
- Tristar Coatings Ltd
- Tsunami Compressed Air Solutions
- United Surface Solutions LLC

#### FORMING & FABRICATING
- 1960 SERAVESI
- 3Arm America
- 3D Fab Light Inc
- Accupress
- AccuStream Inc
- Accutek Waterjet
- Acrotech Inc
- Addison Machine Engineering Inc
- Aeromet Industries Inc
- Ajan Elektronik Servis Sanayi Ve Ticaret Ltd St
- AKS Cutting Systems Inc
- Akypak USA
- Allor Manufacturing Inc/Plesh Industries
- Allstrap Steel & Poly Strapping Systems
- Alma CAM USA LLC
- Alpha Laser US
- Airo Steel, Industrial & Plastics
- Alternative Parts Inc
- AM Machinery Sales Inc
- Amada America Inc
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- American Photonics
- American Punch Co
- AMS Controls Inc
- ANDRITZ Metals USA Inc
- Apex Machine Group
- Apteon Inc
- ARK Chemicals Ltd
- ARKU Inc
- Armstrong Kover Kwick Inc
- Arro-Mark Co LLC
- Arrowhead Manufacturers & Fabricators Assoc
- ASC Machine Tools
- Ascentium Capital
- Automated Fabrication Systems
- Automated Gasket Corp
- Automated Layout Technology
- Automec Inc

#### FORMING & FABRICATING
- AWS Schäfer Technologie GmbH
- AZ Industrial Lasers
- Azak Tool Technologies Inc
- Barefoot Ergonomic Flooring by Beagle I Inc
- BARTON International
- Baykal Makina
- Behringer Saws Inc
- Bendmak Machinery
- BesCutter Inc
- Big Ass Fans
- Big Steel Rack
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- BLM Group
- boeck GmbH
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- Boschert Precision Machinery Inc
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- Bruker Alicona
- BTM Company LLC
- Bud’s MT
- Bunting-Newton
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- Business Network For Offshore Wind
- Butech Bliss
- BUWW Coverings Inc
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- Cain & Company
- Cameron Manufacturing & Design
- Camlock Systems Inc
- Carell Corporation
- CH Steel Solutions Inc
- Chamberlain SAS
- Chase Cooling Systems
- Chicago Metal Fabricators
- CIDAN Machinery Inc
- Cincinnati Inc
- Cle-Line by Greenfield Industries
- Cleveland Punch & Die Co
- Cleveland Steel Tool Co
- Closed Loop Recycling
- CMS North America Inc
- COLE-TUVE Inc
- COMEQ Inc
- Conperio Technology Solutions
- Controlled Automation Inc
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**FORMING & FABRICATING**

- Texas Right Corner
- The Fabricator Magazine
- The M.K. Morse Company
- Thermo Fisher Scientific
- Three D Metals Inc
- Timesavers LLC
- Tocho Marking Systems America
- Toolmen Corp
- Trilogy Machinery Inc
- Trimble Solutions USA Inc
- Trim-Lok Inc
- True-Cut Saw Inc
- TRUMPF North America
- Tsune America LLC
- TTEngineering
- TJKMA Electrox
- Ultra Consultants
- Unist Inc
- Ursweikn Inc
- US Industrial Machinery Co
- V&S Galvanizing
- Versatility Tool Works & Mfg Company Inc
- Viking Blast and Wash Systems Inc
- Virtek Vision
- VKS
- voestalpine Roll Forming Corp
- VX-LLC
- Vytek Laser Systems
- Waldemar Design & Machine LLC
- WARDJet - AXYZ
- Weil Technology North America
- Wells Lamont Industrial
- Welser Profile
- Wila USA
- Wilson Tool International
- Wysong
- Xometry
- YESTOOL / Aloris USA
- Zund America

**METALFORM**

- Accra-Wire Controls Inc
- Accurate Die Design Software Inc./Logopress
- Agathon Machine Tools Inc
- AIDA-America
- Alma Machinery Co
- Almco Inc
- Amada Press System America
- AP&T North America Inc
- ART Metals Group
- AutoForm Engineering USA Inc
- Automated Tapping Systems
- BCN Technical Services Inc
- Beckwood Press Co
- Berg & Co GmbH
- Bienetter America
- Bruderer Machinerie
- BTD Tooling Division
- Chemcoaters LLC
- Clavoy Metals
- COACT
- COE Press Equipment Corporation
- Colt Automation LTD
- Dallas Industries Inc
- Daubert Cromwell
- DDI Inc
- Delta Computer Systems Inc
- Delta Industrial
- DENN - Industrias Puigjaner, sa - Global Metal Spinning Solutions
- Dexcel Structural Racking Systems
- Diehl Steel Co Inc
- DiEtronics
- Digital Tool & Die Inc
- DREHER Automation
- DTC Products Inc
- Dubuque Laser & Fabrication
- Eagle Metals
- Eagle Press & Equipment Co Ltd
- EAS Mold & Die Change Systems Inc
- Era Wire Inc
- F&G Tool and Die Co
- Fibro Inc
- FluidForming Americas

**METALFORM**

- FORMTEK-ME
- Fortech Products Inc
- Green Valley Manufacturing Inc
- Greener Press & Machine Company Inc
- Gruber Tool & Die Inc
- HMS Products Co
- Hursan Pres
- Hutchison Tool
- IHI Ionbond Inc
- Impax Tooling Solutions
- Industrial Innovations Inc
- Jarvis Cutting Tools
- JET-SET
- JIER North America
- JK Prototype Inc
- J-Tech Design
- K&K Tool and Die Inc
- Kaiser Compressors Inc
- Komatsu America Industries LLC
- Kyntronics
- Lee Industrial Contracting
- Leifeld Metal Spinning GmbH
- Lenzes Clamping Tools Inc
- Linear Transfer Automation Inc
- Link Systems
- Logopress/Accurate Die Design Software Inc
- LSP Industries Inc
- Machine Concepts Inc
- Macromony Technologies Inc
- Mayfran International Inc
- Metallod Corporation
- Midwest Industrial Metals Corp
- Mission Tool & Machine LLC
- MJC Engineering & Technology Inc
- Mondeo Marking Products
- MPI Magnetic Products Inc
- Muiltipress Inc
- Oberg Industries Inc
- Ortech Inc
- Overton Industries Tool & Die
- P/A Industries Inc
- Pascal Engineering Inc
- PAX Products Inc
- Penn United Technologies Inc
- Pottiez America LP

**METALFORM**

- Precision Brand Products Inc
- Precision Metalforming Inc
- Precision Punch Corp
- Precision Stamping Products
- Press Room Equipment Co
- Pronic Inc
- PUNCH INDUSTRY USA INC
- Raffin Construction Co
- Rapid-Air Corporation
- Ready Technology Inc
- Rock Valley Oil & Chemical Co Inc
- Roemheld
- Roll Out Racks
- Rollomatic Inc
- Schuler Inc
- SelfLube
- SEYI America Inc
- ShopEdge Software Inc
- SIMPAC America Co Ltd
- Solar Atmospheres
- Special Springs LLC
- Stamtec Inc
- Steel Cast Technologies
- STEINEL Normalien AG
- Superior Die Set Corp
- Taylor Made Solutions Inc
- Toledo Integrated Systems / Toledo Transducers
- Torque Technologies/Goizper
- Tower Metalworking Fluids
- Townsend
- TOX Pressotechnik LLC
- Trans-Matic
- T-Sim Solutions
- TST Tooling Software Technology LLC
- Tsubaki - Kabelschlepp
- Ulbrich Stainless Steels & Special Metals Inc
- Ultralox
- Unico Inc
- UNISORB
- Unist Inc
- United Aluminum Corp
- United Wire Co Inc
- Universal Feed & Machine
- Vibe Dynamics LLC
- Victory Tool
- Voith US Inc
- Vulcan Tool Company

**METALFORM**

- Weldcraft Products Co
- Wintriss Controls Group LLC
- Zapp Precision Strip
- Zerust Corrosion Solutions

**ROBOTICS & INDUSTRIAL AUTOMATION**

- Abka Yazilim Otomasyon Ltd Sti
- Accu Tech USA
- ACCUFAC TURE LLC
- Air and Hydraulic Equipment Inc
- Apex Dynamics
- Applied Robotics Inc
- Ariox Company
- Beckhoff Automation
- Bishop-Wisecarver
- CADDIS Systems
- Center for Naval Metalworking (CNM)
- Festo Corp
- GAM Enterprises
- Gearko
- Harmonic Drive LLC
- igus Inc
- IKO International Inc
- KEBA Corp
- Kosmek USA
- Lasermet Inc
- Mach Machines LLC
- Metamation Inc
- Nabtesco
- NB Corporation of America
- New Forge LLC
- New London Engineering
- Newall Electronics Inc
- NUM AG
- Path Robotics Inc
- Pepper+Fuchs Inc
- Sage
- Schaefer Systems International Inc
- SMC Corporation of America
- TESEO SRL
- TR Electronic
- TRUMPF Laser Technology
- TURCK Inc
- Two Technologies Inc
- Vidor Solutions
- Waypoint Robotics Inc

**TUBE & PIPE**

- 5 Star Engineering
- Accurex Measurement Inc
- Advanced Tubular Technologies Inc
- Alpine Bender Machinery
- AMAG USA Inc
- Bend-Tech LLC
- Chiyoda Kogyo-Maruka USA
- Clark Fixture Technologies
- Comco USA Inc
- Continental Pipe & Tube Cut-Off Machines
- Copier Inc
- Crippa USA
- Design Storage & Handling Inc
- FD Machinery
- Fives
- Galaxie Corporation
- GFU- Maschinenbau Tube End Forming Machines
- Guild International
- Hammond Roto-Finish
- Horn Machine Tools Inc
- Huth Bennett Partnership International LLC
- IP Automation
- ITEC - Innovative Tube Equipment Corporation
- J&S Machine Inc
- Julia USA
- Kent Corporation
- Magnetic Analysis Corp
- Mair Research SPA
- Manchester Tool & Die Inc
- Metalloid Corporation
- Mill Masters
- NDT Technologies Inc
- Numalliance North America / AddEaton
- OMC Inc
- OMN-I USA
- OP USA Inc
- Overton Industries Tube Forming Systems
- Paperboard Packaging Solutions
- Passline Performance
- PHI Hydraulics
- PRD Company / Cagil Makina
- Rafter Equipment Corp
- Roll Machining Technologies & Solutions
- Rust Release (Safe Industrial Rust Remover)
- Saar Hartmetall USA LLC
WELDING
Black Stallion (Revco)  
Bluco Corp  
Blue Demon Welding  
Products  
Bolhoff USA  
Bosch Rexroth Corp  
Bradford Derusiti Corp  
Buffalo Shrink Wrap  
Cambridge Vacuum Engineering  
Capital Weld Cleaners  
Carr Lane Manufacturing Co  
Cerbac Ltd  
CGW Abrasives  
Champion Cutting Tool Chart Inc  
Chicago Pneumatic Tool Company LLC  
CK Worldwide  
CODMeter  
Computers Unlimited  
CORAL Antipollution Systems  
COR-MET INC  
Correels  
CS Unitec Inc  
CW Group  
D/F Machine Specialties Inc  
Dedeco International Inc  
Direct Wire  
Dongguan Kingdom Abrasives Co Ltd  
DualDraw LLC  
Dynabrade Inc  
EASYKleen Pty Ltd  
eldec LLC  
Electron Beam Technologies Inc  
Encompass Machines Inc  
ESCO Tool Company  
Eurovac Inc  
FANUC America Corp  
FecoClean  
Filter-1  
Fireball Tool  
Fischer Engineering Co  
Flame Tech  
Flex Arc  
Flexovit USA Inc  
FLIR Systems  
FOCUS  
Forney Welding & Metalworking  
Genstar Technologies Co Inc (GENTEC)  
GH Induction Atmospheres LLC  
GW Induction  
Henderson  
Hobart Institute of Welding Technology  
Hundal Group  
I-IV Infrared  
IMPACT  
InterTest Inc  
IVOSTUD GmbH  
IWT Stud Welding  
JASIC Technologies America Inc  
JLC Electromet Pvt Ltd  
John Tillman Co  
JR Automation  
Kalas  
KBG Welding  
Kennametal Inc  
Kistler Welding and Cutting Automation  
Levitate Technologies Inc  
LightSAFE - LightWELD  
Linde plc  
Luvata Ohio Inc  
Manufacturing Solutions Industries Inc  
Mathey, B&B Pipe, PP, Fit-Up Pro, Tag Pipe  
McDantim Inc  
MCR Safety  
MELTRIC Corporation  
Michigan Pneumatic Tool Inc  
Micro Air  
Midalloy  
MTA-USA LLC  
Nelson Stud Welding Inc  
Norton Abrasives  
NUBURU Inc  
Oasis Scientific Inc  
Olympus America Inc  
Optrel Inc  
Outlaw Leather  
Oxyline Inc  
Pador Group - Rotoweld  
Pandjiris Inc  
Pemamek LLC  
Pioneer IWS  
Pipe Pro Guides  
Plasma Automation  
plasmo USA LLC  
Portwest LLC  
Preco Inc  
Pro Spot International  
Proceq USA Inc  
Protective Industrial Products Inc  
Pyramax Safety Products  
Radyne Corp  
Rex-Cut Abrasives  
Robotic Technologies of Tennessee LLC  
Sanpo Publications Incorporated  
SanRex Corporation  
Sawblade.com  
sia Abrasives  
Siders Engineering  
Southern Stud Weld Inc  
SSC Controls Co  
Steelmax Tools  
Strong Hand Tools  
Suhner Industrial Products Inc  
Sumig USA Corp  
Sumner A Southwire Company  
Sunstone Welders  
Superflash Compressed Gas Equipment Inc  
Surface Engineering Alloy Co  
Surface Flow Technologies Inc/LSN Diffusion Ltd  
T. J. Snow Company  
Techniweld USA  
Tennryu  
Thread Fasteners Inc  
Thred Taper  
TIG Brush  
Travelers Alliance Group  
Trendex Inc  
TRU-WELD  
TWI North America  
U-Mark Abrasives  
Universal Abrasives Inc / SAIT  
Up In Smoke Welding Apparel Inc  
Urrea Professional Tools  
Vessel / SP Air  
Vicon Machinery LLC  
Victory CNC Plasma Systems  
ViewTech Borescopes  
VSM Abrasives Corp  
Walter Surface Technologies  
Washington Alloy Co  
Watts Mueller  
Weld Metals Online  
Weld Pride USA LLC  
WeldComputer  
Weldcote Metals  
Weldbot  
Wendt USA LLC  
WITT Gas Controls  
Wurth Industry North America  
Wurth Van Horn  
Yaskawa Motoman Robotics  
Zipp Air Tool  
WELDING AUTOMATION
3M  
ABB Robotics & Discrete Automation  
Aimetek Inc  
AKH Inc  
AMET Inc  
ARC Specialties Inc  
AXXAIR USA  
Balaster LLC  
Bear Knuckles  
Beveler USA Inc  
BUG-O SYSTEMS  
CEIA USA Induction Heating Systems  
CENTIT North America Inc  
CM Industries Inc  
COB Industries Inc  
Coherent Inc  
Continental Abrasives  
Diable Tools  
Diagraph Marking and Coding An ITW Company  
Fusion Inc  
Goss Inc  
Gretchen International  
Gude Inc  
Holemaker Technology LLC  
Hypertherm Inc  
IPG Photonics  
Izumi Friction Welding / All World  
Kawasaki Robotics (USA) Inc  
Koike Aronson Inc  
K-TIG  
KUKA Robotics  
Laser Marking Technologies/ Laser Manufacturing Technologies LLC  
Laser Mechanisms Inc  
Laserline Inc  
Markal  
Melton Machine & Control Co  
Metabo Power Tools  
MITUSA Inc  
MSC Software  
OTC DAIHEN Inc  
Pearl Abrasive Company  
Platco Filtration  
Precitec Inc  
Preston Eastin  
Primo Automation Systems  
PTR-Precision Technologies Inc  
Pulsa  
Quantum Machinery Group  
Rapol Inc  
RIDID  
SciAps Inc  
SEC Industrial  
SERVO-ROBOT  
Sigma DT Robotics  
Staubli Corp  
Steiner Industries  
Taylor-Winfield Technologies  
THE ROUCHE CO LLC  
The Tack Shield  
Transfil  
UNIBOR  
Universal Robots  
UniWeld Products Inc  
Vanterm Isi Ve Makina  
San Tic AS  
Vectis Automation  
Weiler Abrasives  
Weldas Co LLC  
Weldsale LLC  
Weiler Engineered Products  
Xiris Automation Inc
EXPLORE NEW PRODUCTS AT FABTECH

The following pages in this New Product Preview offer a glimpse of what’s in store at FABTECH. Find descriptions and images of new machinery, new materials and new processes listed by technology and company name. To view a complete list of all new products offered, click on the Exhibitor Directory tab at fabtechexpo.com.

**Arc Welding**

**IWT Stud Welding**
Booth ............. B37060
LYNX Freedom

Battery powered drawn arc stud welder. Weld range: #10 - 1/2", 900amps, 6 welds per minute. Charging input: 115VAC.

**MITUSA Inc**
Booth ............. B15043
MITUSALATOR Unitized Manipulator Column and Boom

Unitized welding manipulator column and boom design for pipe shops. Set up in minutes. The boom arm swivels into position for easy welding process control equipment mounting.

**OTC DAIHEN Inc**
Booth ............. B27021
Welbee II

Welbee II is the next generation of advanced welding technology from OTC DAIHEN. Suitable for manual or robotic welding, Welbee II features a streamlined, digital control panel.

**TRUMPF North America**
Booth ............. A2904
TruArc Weld 1000

Quick programming, reliable welding: the TruArc Weld 1000 has the complete package for getting started with automated arc welding even with low production quantities.

**IPG Photonics**
Booth ............. B27038
LightWELD 1500 Handheld Laser Welding System

LightWELD handheld laser welding is easy to learn and provides consistent high-quality results across a wide range of materials and thicknesses. Weld thick, thin and reflective metals with low heat input and wobble control for up to 5mm of additl weld width.

**Automation**

**Amada America Inc**
Booth ............. A2104
AMS 3015 CLT Automation

Manufactured with precision at our facility in Brea, California, the AMS CLT can automatically and consistently perform material handling operations to maximize machine productivity.

**Bystronic Inc**
Booth ............. A2126
ByTrans Modular

From a single machine to multiple machines with material warehousing and automated parts sorting. ByTrans Modular offers a variety of scalable solutions to expand material automation capabilities as your production requirements change.

**Kyntronics**
Booth ............. D47252
SMART Electro-Hydraulic Actuator

The all-in-one Kyntronics SHA combines the power of hydraulics with the precision of servo control. Actuators with up to 170,000 LBS (755 kN) of force that have superior functionality compared with HPUs/cylinders or EMAs.
Lasermet Inc  
Booth .............. B12021  
Laser Castle Lite - Handeld Laser Welding Cabin

Laser Castle Lite is the self-assembly, laser welding safety cell ideal for hand-held-laser welding operations and for small robots used in laser cutting and laser welding.

Modula Inc  
Booth .............. A5761  
Modula Lift NG

Modula’s VLMs are fully automated vertical storage systems that take up a minimum footprint by taking advantage of high ceilings, thus maximizing storage potential.

Two Technologies Inc  
Booth .............. B16008  
HMIQ Automation

HMIQ Automation end-to-end solution applications include: automated test processes, data logging/IIoT, existing equipment upgrades into “Smart” Equipment, equipment diagnostics and Training.

Vectis Automation  
Booth .............. B17054  
Vectis HD Cobot Welding Tool - Water Cooled

The heavy-duty version of our Cobot Welding Tool comes with a 450 amp welder and a stout water-cooled torch. It’s in the field welding 0.045”, 0.052”, and 1/16” wire all day long.

Vectis ArcPilot: Through-The-Arc Seam Tracking

ArcPilot brings through-the-arc seam tracking to cobot welding. This feature enables fabricators to compensate on-the-fly for production realities such as distortion, inconsistent parts/fixturing, and imperfect programming.

Deployment Options for Vectis Systems

In addition to Miller Invision-based standard systems, we now offer additional welder options from Miller, Lincoln, and Fronius that will enable more applications and fit your shop’s existing equipment needs and preferences.

Welder Options for Vectis Systems

Berg Spanntechnik hydraulic chain actuator BKZ/PKV travels automatically in the T-slot of the press slide between the park position and respective die.

Bihler of America  
Booth .............. D47124  
4Slide-NC

Next-generation servo technology provides unmatched levels of productivity and operational efficiency with features and benefits that include: integrated process and production monitoring, and faster production speeds.

Carell Corporation  
Booth .............. A5314  
BA-40 CNC Section Bending Machine

Eagle’s BA-40 CNC Machine incorporates PROBENDING Servo Controlled Leading Edge Technology providing material feeds from left or right making it a truly accurate and universal job shop or production machine.

Bending/Forming

Berg & Co GmbH  
Spanntechnik  
Booth .............. D47545  
Berg Hydraulic Chain Actuated Clamping Systems

The standard mobile cart enables versatility for many applications but when you need a different way to get the cobot to the joint or a larger workspace deployment options for the Vectis system include the Boom, XL Cart and more.

Carell Corporation continued on next page.
**Bending/Forming**

**BA-55 CNC Section Bending Machine**

The BA55's CNC, Double Pinch, 3 driven rolls are managed by an easy-to-use Servo Controlled "PROBENDING" system. Create variable radii shapes and polycentric forms using most any material type or profile. Precision built for high production applications.

**Crippa USA**

Booth ............. D45932

Tube Bending Endforming Machines and Work Cells

Tube bending, endforming and processing consist of several operations that require increasingly more integration of complex and multi-disciplinary technologies.

**data M Sheet Metal Solutions GmbH**

Booth .............. A3493

Perfect Roll Forming

With just a few clicks, COPRA® users can integrate their roll design in the production cycle speeding up the manufacturing process tremendously.

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**Dreistern Inc**

Booth ............ A5104

DREISTERN Roll Forming 4.0

Intelligent Roll Forming shortens "Time to Market".

**FACCIN USA, INC**

Booth .............. A4912

Plate Roll 4HEP Electric Model

The model features a compact and solid structure thanks to the use of more resistant and innovative steels, that together with new energy efficiency technology, achieve an optimal combination that maximizes productivity while reducing running costs.

**Horn Machine Tools Inc**

Booth ............ D45940

HMT

All-Electric machines that set up automatically, quickly and are intentionally designed to withstand 24/7 production.

**Horn Metric**

HORN Metric Series CNC Tube Benders - choose from single stack, dual stack, NC single axis, and NC multi axis, hydraulic drive or hybrid drive tube bending machines.

**Safan Darley B.V.**

Booth ............. A2158

E-Brake Mini Cell

The Mini Cell is a fully automatic bending cell and brings all the features available in the larger automated cells, all in the smallest footprint of its class. The E-Brake Mini Cell has a modular build up, so you add only the options you need.

**Schwarze-Robitec GmbH**

Booth ............. D45954

CNC 80 E TB MR

The fully electric CNC 80 E TB MR multi-radius tube bending machine is an absolute allrounder - designed for high volumes, short cycle times and resource-saving material handling.

**Trilogy Machinery Inc**

Booth .............. A4961

SYNERGY Bending Rolls

The power of Fusion combines the Horn USA All-Electric bender design with the efficiency and experience of CSM’s manufacturing capability.

**Ursviken Inc**

Booth ............. A4531

PivaBend MPB600

XXL Panel Bender capable of bending 19.6 feet long parts.

**VLB North America**

Booth ............. D46163

Fully Electric CNC Rotative Head Tube Benders

The EB-RH series bending machines, with rotating heads, contain advanced electric motion technology with 11 fully electric drive shafts. Allows the production of very complex parts in automatic bending cycle.

**Fully Electric CNC Tube Benders | EB Series**

The EB-CNC series electric VLB bending machines are equipped with the latest Electric Motion technology. With up to 9 fully electric drive axes, pipes from 6 to 150 mm can be bent. Booster system, allows radii up to 1D with reduced clamp marks.

**Pipe End Forming Machines | EF Series**
Fast, accurate and versatile end forming machines that enable the endforming of pipes with high complexity, high deformation levels and high repeatability. Can be equipped with up to 6 forming stations, including rotary stations.

**Angle Rolls - Section Benders | SB Series**

VLB profile rollers offer endless possibilities for bending profiles and pipes, regardless of the dimensions. VLB range of bending machines is suitable for bending large pipe diameters and profiles up to IPE1000.

**Business Services**

**American Welding Society**
Booth .......... B25008

**Welding Solutions Online Course**
An online course designed to help develop highly knowledgeable and effective sales personnel.

**Marketing Essentials LLC**
Booth .............. A3555

**Virtual Selling Solutions - Sales Coaching**

How we sell has changed. It’s both face-to-face and virtual. To win, sales teams must have the right approach, tools, and skillset to allow them to transition quickly and flawlessly between both environments.

**Coil Processing**

**Allor Manufacturing Inc/ Plesh Industries**
Booth ............. A3560

84” Slitting Line Leveler

84” Slitting Line Leveler. Roll plunge based on gauge and yield, positions machine for desired plastification. Real time roll bending corrects strip defects.

**Precision Tapered Backup Bearings**

Backup Bearings give direct interchange 2.5”- 11.375”. All bearings are sealed or shielded for life, and are heat-treated using bearing-quality steel. Our attention to detail gives you increased performance for all of your backup bearing needs.

**Work Rolls**

Work Rolls meet the highest standards for material, finish, tolerance, strength and reliability to keep your production moving for your leveling equipment. Work roll sizes available in “Inch” and “Metric” diameters.

**Danobat**

Booth .............. A3176

**X-GAP by Danobat for Coil Fed Fiber Laser Systems**

X-GAP by Danobat: adaptive expanding gap system that increases efficiency and opens new possibilities to the production with Danobat LB coil-fed fiber laser blanking systems.

**Produtech**

Booth .............. A3176

**EffiCoil Coil Fed Fiber Laser-Punching System**

A coil fed fiber laser-punching machine equipped with two compact and independent working heads, an electric punching unit and fiber optic laser cutting head.

**VLB North America**

Booth ............. D46163

**Electric NC Tube Benders | ECO Series**

The bending machines of the ECO-NC series are easy to operate, robustly constructed and achieve excellent bending results.

**Roll Forming Lines for Sheet Metal | RF Series**

Automatic profiling lines. VLB develops, produces and installs roll forming lines and provides technical support.

**Cutting**

**Biele S A**
Booth ............ D46843

**Vision & Handling Equipment for Laser Blanking**

The Laser Blanking line system detects blanks embedded in the metal band from which they have been cut by laser with the required accuracy and speed.

**ESCO Tool Company**
Booth ............. B37012

**COHOG® Split-Frame Clamshell Machine**

COHOG® Clamshell Split-Frame machine for parting and beveling pipe features a new module cutting blade system with double-edged insert bits is available for sale or rent and manufactured in the USA ESCO Tool.

**Haberle / Ken Bergman & Associates**
Booth .............. A3254

**Compound Cutting Saw**

Tilting saw head allows vertical mitering 0º-90º to the right side. The vise in place, it allows compound angles with tilted head 0º- 45º and mitered vise 0º- 60º according to the 1º- graduations.
Cutting

**Julia USA**
Booth .............. D46477

**EVOLUTION**

Evolution assures higher performances than standard HSS blades, in M2 or M35 steel, in every cutting condition.

**LENNOX®**
Booth .............. A3543

**GEN-TECH**

Set-Style Carbide Tipped Band Saw Blade for general purpose cutting. Low cost per cut with versatile, set-style tooth design for use on wide range of materials and saws.

**LINSINGER**
Booth .............. A5568

**RAPTOR - Hydraulic-free into a Green Future**

Thin-cut circular saws for mass cutting applications especially for the steel industry.

**MultiCam Inc**
Booth .............. A4502

**APEX5R CNC Router**

Motion speeds exceeding 4,500 IPM, the APEX5R is a purpose-built aluminum fabrication machine combining new technology, design and craftsmanship.

**Remgrit Cartridge Grit Cutting Tools**
Booth .............. A5123

**BLU-MOL XTREME Quickcore Holesaw System**

With 10x faster core ejection the BLU-MOL EXTREME eliminates the #1 operator issue with holesaws. Quick and easy core removal and no extra tools are needed.

**Simonds Saw LLC**
Booth .............. A5939

**SBX GP**

Bandsaw Blades 3/4” to 1-1/4 designed for general purpose and production cutting of bundles, tubes, and structural shapes. Used in steel service centers, medium and large manufacturers, fabricators, maintenance, job shops and tool and die shops.

**TTEngineering**
Booth .............. A3554

**TOP-S - 3D Laser Cutting Machine**

3D cutting machine by TTEngineering designed to carry out high quality, precise cuts with a fiber laser process on pipes with a diameter range from 2.4” up to 30”, a thickness range from 30 ga up to 10 ga and a maximum length of 100”.

**Vectis Automation**
Booth .............. B17054

**Vectis Cobot Cutting Tool**

The ease-of-use and flexibility of the Vectis welder is now available for Plasma Cutting. Program and cut 3D components, tube, and complex projections with ease.

**Finishing**

**Acme Finishing**
Booth .............. D45266

**AAMA 2604 & 2605 Certified Powder Coater**

Architectural powder coating line to coat parts up to 27 feet in length and 8 feet tall.

**AFC Finishing Systems / Airblast AFC**
Booth .............. D45558

**Containerized Blast Rooms**

Airblast AFC containerized blast rooms provide an economical solution when a weatherproof and/or transportable blast room is required. This versatile, mass-manufactured, watertight enclosure is an ideal starting point for a blast room.

**Air and Liquid Systems Inc**
Booth .............. D45057

**CO2 Cleaning Systems**

Non-aqueous cleaning and surface prep removes contaminants from plastic, composite, metal, and glass. Uses a fraction of the energy, material, and labor costs than conventional cleaning methods. Robot ready, environmentally friendly, widely accepted.

**Fastening & Joining**

**AKH Inc**
Booth .............. B29067

**AKH Pre-Painted FAS-NER®**

AKH Painted FAS-NER®, allows you to insert directly into pre-painted metal. The FAS-NER® color is matched to the color of your painted assembly allowing for the elimination of post-paint.
Alliance Manufacturing Inc
Booth ............. D45626
ILSA Vacuum Degreasing Parts Washer

Alliance Manufacturing is an authorized distributor of ILSA vacuum degreasing parts washers. These systems are ideally suited for critical cleaning applications and those with tight cleanliness specifications, using self-contained modified alcohols.

ARKU Inc
Booth .............. A5538
EdgeBreaker® 6000

The EdgeBreaker® 6000 is designed for top quality manufacturers that process sheet metal after punching and laser cutting. Processing steps include; deburring, edge rounding and surface finishing, all in just a single machine.

CAPLUGS / SHERCON
Booth ............ D45634
Custom Rubber Masking Solutions

High-performing and precision-made products for a wide range of finishing applications. Custom rubber masking parts are engineered to meet specific needs, and provide cost-effective solutions with short lead times.

Carlisle Fluid Technologies
Booth ............. D45347
Binks Maple 120/3 Horizontal Pump

The Maple 120/3 Pump delivers flushing material to the rest of the plant. This high-flow 3:1 pump boasts no exterior leaking seals and low maintenance.

MS Elite Series
MS Elite Series is a high-quality coating with an easy-to-use, multifunctional powder cart system. Configurations includes single or dual applicators, vibratory box-feed or hopper, and a variety of cable and hose lengths.

Clear Label Masking Solutions

Protect part numbers, barcodes and other identifying markers during finishing processes with Caplugs new clear masking tapes and die-cuts. Fully transparent, barcode scanners and production operators can read labels clearly without any interference.

Caplugs is your masking expert. With a global footprint and local sales teams worldwide available for on-site visits, we respond to your needs quickly and efficiently.

- 13,000+ masking solutions – the largest standard product offering in the industry
- In stock and ready to ship today
- Free samples of all standard parts
- Custom made easy – quick lead times and cost-effective solutions

Product Protection | Masking Solutions | Custom Molded Components

- Injection molding • Extrusion
- Vinyl dip molding • Vinyl coating
- Rubber molding • Die-cutting

www.caplugs.com/masking
1.888.CAPPLUGS | sales@caplugs.com
**Finishing**

**Chemical Coaters Assoc International**
Booth .............. D45362
Technical Manuals in Spanish

CCAI technical manuals are now available in Spanish and include Diseño de Sistemas (System Design), Pretratamiento (Pre-treatment), Recubrimiento en Polvo (Powder Coating), and Recubrimiento Líquidos y Equipos (Liquid Coatings and Equipment).

**Industrial Finishing Online Courses**

**CS Unitec Inc**
Booth .............. B20049
KING-BOA™ All-Around Handrail Finisher/Polisher

Achieve professional finishes on handrails and pipes from 3/4” to 5” dia. KING-BOA™ has a wide variety of quick-change abrasive belts for 360° all-around blending, finishing, and polishing. Adjustable handle for use close to walls and in tight spaces.

**Diamond H2O**
Booth .............. D45624
Turnkey Skid Mount Reverse Osmosis Systems

Engineered and pre-built complete water treatment systems from Diamond H2O. Ranging in size from 3.5 to 20 gpm.

**Diamond Vogel Paint & Coatings**
Booth .............. D45758
T10 Super Durable CR TGIC Powder Coating

T10 powder coatings provide superior weatherability as well as innovative corrosion and chemical resistance demonstrated by 2500+ hours of salt spray resistance. When applied direct-to-metal, a one-coat painting process is possible.

**EPSI Engineered Products and Services Inc**
Booth .............. D45020
Custom Plating & Paint Racks

EPSI’s Racking and Hanging Division builds custom plating and paint racks to increase station density and maximize throughput. Custom hooks and wire forms are available in various materials to hang heavy and light products for bake cycling.

**ESMA Incorporated**
Booth .............. D45649
E992 Automated Ultrasonic Passivation System

Esma Automated Ultrasonic Passivation System moves the fluids, not the parts.

**Frohn North America**
Booth .............. D45047
Ox-Grit

Ferro-oxide abrasive for surface preparation applications.

**Gema USA Inc**
Booth .............. D45337
OptiCenter® OC09 Powder Management System

Gema’s OptiCenter OC09 Powder Management System is the solution for low to medium powder consumers seeking to improve powder utilization efficiency of their multi-color processes by eliminating multiple fluidized hoppers and reducing operator involvement.

**Henkel Corp**
Booth .............. D45549
BONDERITE Sustainable Pretreatment Solutions

Solutions include BONDERITE S-AD HOT 22 HAPS-free paint stripper, BONDERITE M-Nt Phosphate-free, cleaner/coater, BONDERITE M-Nt zirconium based conversion coating and BONDERITE E-CO DMC control and monitoring equipment to reduce chemical usage.

**Graco Inc**
Booth .............. D45333
E-Flo DCi

Graco E-Flo DCi direct current (DC) electric pumps with intelligent (i) control boost industry standards for high reliability, low maintenance and energy conservation.

**Circle-Proasco Inc**
Booth .............. D45375
Steelcote ZR-1

ZR-1 is a single-component, zirconium conversion coating specifically formulated for smaller system operators who need the corrosion resistance and paint adhesion of zirconium nanofilm technology in a user-friendly product right sized for their process.

**Chemical Coaters Assoc International**
Booth .............. D45362
Technical Manuals in Spanish

CCAI technical manuals are now available in Spanish and include Diseño de Sistemas (System Design), Pretratamiento (Pre-treatment), Recubrimiento en Polvo (Powder Coating), and Recubrimiento Líquidos y Equipos (Liquid Coatings and Equipment).
**Horizon Performance Technologies LLC**  
Booth ............... D45156  
**Horizon Industrial Washer Technology**

Capital equipment for the finishing systems and heat processing industries. Patented TORRENT (washing) and CYCLONE (dry/cure) technologies use 75% less water and kW resulting in superior metal performance tests.

**Horizon Oil Coalescer 6000**

Oil Coalescer 6000 – the unit is located next to the washer and works in a side stream fashion, drawing a water/oil mixture off the top using a floating head and diaphragm pump.

**Horizon High Efficiency Zirconium Filter System**

The filter media can be sand or glass. The filter tank, pump, and controller are skid mounted. The variable speed pump can be controlled to a constant flow, automatically adjusting for varying operating conditions; or it can be controlled to a constant motor speed.

**Horizon Industrial Oven Technology**

The CYCLONE Oven-System generates uniform oven temperature curves utilizing up to 75% less energy.

**Horizon Spare Parts and Service**

Countless options for any future service, retrofit or upgrade required for gas trains or equipment.

**Horizon Water Treatment System with RO**

Water Treatment System with Reverse Osmosis – the Complete Water Treatment System includes carbon filter, FRP tank, brass control valve for chlorine removal, duplex water softener, FRP tanks, water meter, salt tank with salt grid and safety shutoff float and more.

**IFS Coatings Inc**  
Booth ............... D45537  
**IFS PureClad Powder For Wood & MDF**

Powder for non-metal substrates delivering a beautiful, tough, flexible finish, with exceptional performance, with a quick, efficient application process.

**LestaUSA**  
Booth ............... D45368  
**Pulver Control Powder Flow Sensor**

Monitor automatic powder guns and display actual flow of powder in real time. Sensors work with DeGeest software to bring peace of mind by sending email/text warnings and stopping the line before expensive rework if your guns are not working optimally.

**IFS Coatings Inc**

**LestaUSA continued on next page.**

**Horizon Coalescer 6000**

24 hours, surfaces coated showed the reproduction of E. Coli and Staphylococcus microbes were reduced by more than 99.99%.

**LestaUSA**

**Pulver Control Powder Flow Sensor**

**Nitrotherm® Spray**

Patented technology for constant humidity and temperature control for consistent application conditions all day, in all seasons. Reduce overspray + generate 20%-30% savings of coating materials. Works with existing equipment and is distributed by DeGeest.

**POLIFLUID®**

Generates 10-30% savings of powder + increases production line speed. Works with existing equipment. Distributed by DeGeest.
NEW PRODUCTS

LS Industries Inc
Booth .................. D45151
Monorail Shot Blaster
MONO4884

LestaUSA Self-Learning/3D Scan
Hybrid robotic painting system that brings together Lesta’s self-learning robots and 3D scanning. Combining benefits of a robotic program created by your best painter with 3D scanning technology allows programs to match variable part locations.

LISSMAC Corp
Booth .............. A4924
SMD 335 REE & SMD 335 DRE
The SMD 335 REE is built to de-burr and provides edge rounding radius of 2mm. The SMD 335 DRE is designed to chip, slag, grind and edge round plasma cut parts.

Michigan Pneumatic Tool Inc
Booth ............ B22006
1500 Series of 1.5hp Grinders
MPT’s 1500 Series of die, wheel, cone and belt grinders offers a powerful 1.5hp governed motor for greater performance and productivity. The durable steel housing makes them ideal for intense metal working applications. Available from 9000 to 18000 rpm.

Midwest Finishing Systems
Booth ............. D45529
Turnkey Finishing Systems
Midwest Finishing custom finishing systems, including pretreatment washers, dry-off and cure ovens, environmental rooms, and material handling solutions. Features include modular design, quick installation, custom controls, and energy savings.

Mighty Hook Inc
Booth .................. D45643
Angle Pivot Tooling System
The patented Angle Pivot Tooling System is a customized tooling and hanging solution that gives you higher output, better first-pass transfer efficiency, better in-plane part tracking, more accurate thickness control and increased safety.

Nordson Corp
Booth ............. D45325
coatmaster Flex
Correct deviations in your coating application immediately. coatmaster Flex will eliminate rework before the product is cured. Ultimately helping our customer save on material costs and ensure a quality finish every time.

Parker Engineering of America
Booth ............. D45129
Parker Proficy
4th generation, version of the Pulse Power® Advanced Corona Charging Technology, the Parker Proficy. The System features gun mounted control of powder output as well as a full line purge control.

Powder Coating Institute
Booth ............ D45032
Powder Coating: The Complete Finisher’s Handbook

PPG
Booth ............. D45132
PPG ENVIROCRON™ Extreme Protection Edge Powder

Production Plus Corp
Booth ............. D45526
Magic Rack III
PPG ENVIROCRON™ Extreme Protection Edge powder delivers edge corrosion protection in just one coat. Formulated to cover sharp edges, this powder provides coverage that surpasses standard one- and two-coat powder systems.
The Magic Rack III features an easily adjustable crossbar system to fit a variety of medium and small parts, internal grounding to cut down on cleaning costs, and works with any Magic Rack hook.

**Richards-Wilcox Inc**
Booth ............. D45524

**Self Leveling Carrier**

A high transfer efficiency powder applicator that delivers: higher first pass transfer efficiency, better uniformity, and high finish quality.

**InoBell® Powder Bell Applicator**

**Scientific Industrial Nano Engineering - SINE**
Booth ............. D45851

**Spiral Stack Pump**

The spiral stack pump is a reversible, high-pressure, pulsation-free, laminar flow pump for viscous fluids. This versatile, bulletproof design eliminates the pressure spikes of piston, peristaltic, and scroll pumps, preventing damage to media.

**Sherwin-Williams**
Booth ............. D45766

**Powdura® ECO Powder Coatings**

This transformative product collection elevates powder coating sustainability by utilizing recycled plastic - providing customers a more eco-conscious solution to product protection, color and performance.

**Sistem Teknik Makina San Ve Tic AS (Electron)**
Booth ............ D45045

**MASTER MODEL Powder Coating Equipment**

Holds 50 different recipes and recipes can be switched with double triggering on the gun. The unit has 3 default presets namely straight surface coating, secondary layer coating, and tough surface coating.

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**Introducing the MP-1500 Series Grinders**

The MP-1518DGS-C4 is just 1 of the 96 possible variations on our 1500 Series of die, wheel, cone and belt grinders. The 1.5 hp governed motor of the MP-1500 Series die grinder offers unparalleled power and performance. The durable all steel housing makes the 1500 Series ideal for demanding metal working applications. Pick the perfect speed for your abrasive, as the MP-1500 Series is offered in speeds of 9,000, 12,000, 14,000 and 18,000 rpm. The MP-1500 Series of grinders is offered with a side exhaust or a front exhaust option is available on non-extended collet models. Collet options available in 1/8”, 3/16”, 1/4”, 5/16”, 3/8”, and 6mm.
**NEW PRODUCTS**

**Finishing**

**Sprimag Inc**  
Booth ............ D45063  
*S-703MD*

The S-703MD Spray Gun Generation offers higher productivity and improved coating application equipment quality thanks to immediate spray jet formation. Better material flow adjustment with the nozzle extension, and optimized circulation resistance in the paint tube.

**Trimac Industrial Systems**  
Booth ............. D45224  
*Mini-Mobile Powder Coating*

The Mini-Mobile System is a compact and portable finishing system to coat and cure parts. Includes an electric infrared oven, powder booth and manual trolley system so you can roll-in, plug-in and have cured parts typically in 5 minutes or less.

**Gases & Gas Equipment**

**WITT Gas Controls**  
Booth ............. B36021  
*“SMART” Safety Product*

WITT Dome pressure regulator and safety relief valve with integrated digital sensor technology, measures gas pressures and the gas temperatures.

**Inspection & Testing**

**Accurex Measurement Inc**  
Booth ............ D46368  
*TubelnInspect P16.2 & P8.2 HRC*

HRC (High-Resolution Camera) option provides a 4x higher resolution than the previous TUBEINSPECT.

**DeFelsko Corp**  
Booth ............. D45140  
*PosiTector Gage Body*

PosiTector gage body features a larger 2.8” impact resistant color touchscreen with redesigned keypad for quick menu navigation with or without gloves, new ergonomic design with a durable rubberized grip for comfortable all-day inspection, an updated modern user-interface, and on-gage help to explain menu items at the touch of a button.

**Elcometer Inc**  
Booth ............. D45551  
*415 Coating Thickness Gauge*

The Elcometer 415 Paint and Powder Thickness Gauge provides simple, fast, and accurate coating thickness measurements.

**Hexagon**  
Booth ............. A3326  
*Absolute Scanner AS1*

The Absolute Scanner AS1 is the flagship 3D scanning sensor for Absolute Tracker AT960 and Absolute Arm 7-Axis systems, it combines ‘always-on’ maximum performance with simple usability to deliver high-productivity non-contact 3D measurement.

**Magnetic Analysis Corp**  
Booth ............. D46474  
*Rotomac® 25RM Eddy Current Rotary*

Rotomac® 25RM eddy current rotary, designed for use in slow throughput operations such as cold headers in fastener production, spring makers and other parts manufacturers.

**Oasis Scientific Inc**  
Booth ............. B13058  
*ViTiny UM10 HDMI/USB Autofocus Microscope*

ViTiny UM10 HDMI/USB Autofocus Digital Microscope can output to a Windows PC and TV monitor at same time. With UM10, the end user can save pictures and videos on the SD card.

**Toledo Integrated Systems / Toledo Transducers**  
Booth ............. D46758  
*RAM VIEW*

Ram View is used to display the press shut height position. Soft high limit, soft low limit and run tolerances are included. Position shown in inches or metric (mm). Calibration is made easy with on screen instructions.

**ViewTech Borescopes**  
Booth ............. B20066  
*ViewTech Borescopes Inspection Video Borescopes*

ViewTech Borescopes VJ-3 articulating video borescopes are used during remote inspection of machinery, equipment and components.
W Abrasives
Booth ............. D45756
WA Clean

WA Clean Technology are unique, reliable and cost-effective tools to measure surface cleanliness.

Xiris Automation Inc
Booth ............. B17040
XIR-1800 Thermal Camera

High Dynamic Range SWIR thermal camera designed for use in metal welding and Additive Manufacturing applications that provides enhanced imaging beyond what is visible using standard thermal or visible-light cameras.

Lasers

Aimtek Inc
Booth ............. B18071
Scan Head Laser Welding Systems

Scan Head Laser Welding Systems from K-Lab are now available in the US through Aimtek, Inc. Scout is an advanced, precise, and easy to use scanning solution and features automatic repositioning and a smart vision system for repeatable welds.

Amada America Inc
Booth ............. A2104
VENTIS 3015 AJ Fiber Laser

VENTIS utilizes Locus Beam Control (LBC) technology to create infinite locus patterns - ensuring optimum beam shape for each cutting application. This results in the highest quality cuts on stainless steel and aluminum with virtually no dross.

EMLS 2515 AJ Fiber Laser/Punch Combination Machine

AMADA’s most popular combination machine pairs a multi-purpose turret with the unlimited shape cutting flexibility of a fiber laser. This grants fabricators the flexibility to work with their customers to create better part designs.

Alpha Laser US
Booth ............. A3508
ALFlak Fiber Laser Welding System

The ALFlak laser system for deposition and contour welding allows you to make repairs and modifications or produce in series, you can effortlessly process sheet metal, aluminum, stainless steel and sectional steel.

Mazak Optronics Corp
Booth ............. A4402
OPTIPLEX NEXUS 3015 FIBER S7

The OPTIPLEX NEXUS 3015 FIBER S7 is a 2D flying optics fiber laser-cutting system from Mazak Optronics and is designed with groundbreaking Variable Beam Parameter Product (V-BPP) technology that better controls the laser beam for superior cut performance.

Job Shop/Contract Manufacturing

Decoral System USA Corp
Booth ............. D45249
Powder Coating + Sublimation

Decoral decorative finishes can take your products to the next level offering beauty, long-term protection and durability.

Valmont Coatings
Booth ............. D45271
Pittsburgh Galvanizing

Valmont Coatings newest and “greenest” galvanizing facility in Midland, PA. Pittsburgh Galvanizing is equipped with a 54’ long kettle and features our new, environmentally-friendly VALPREP™ cleaning and VALPASS passivation processes.

Bystronic Inc
Booth ............. A2126
15kW ByStar Fiber Laser Cutter

The ByStar 15kW Fiber laser cutting machine cuts steel, aluminum, and stainless steel from 20 gauge up to 1.500 in thick, and brass and copper up to .750 in thick with high precision.

Coherent Inc
Booth ............. B15035
HighLight™ FL-ARM High-Power Fiber Laser

Advanced fiber laser technology for effectively welding delicate or heat-sensitive materials, dissimilar materials, and even copper.
**Lasers**

**Mitsubishi Laser, Press Brake, & Automation - MC Machinery Systems, Inc.**
Booth .............. A2923

**GX-F ADVANCED Series**

User-friendly, smartphone-like controls and high processing stability with superior beam-quality consistency. Beam cleaning and anti-back reflection technology and faster and more stable processing.

**Muratec**
Booth .............. A4901

**LS3015HL 6.0kW**

This multi-functional fabrication machine combines fiber laser cutting and forming into a single, highly-reliable production center. Leveraging the high-speed precision of fiber laser cutting and the accurate forming and tapping.

**RDI Laser Blanking Systems**
Booth .............. A3350

**Coil-Fed Laser Blanking up to 0.25” Thick Material**

RDI Laser Blanking Systems now support materials up to 0.25” thick on their coil-fed laser blanking technology.

**Superflash Compressed Gas Equipment Inc**

**LaserCore**

LaserCore® is your destination for nozzles, ceramics, and holders. We provide high quality products and customer service with low cost for major fiber or CO2 laser cutting systems.

**TRUMPF Laser Technology**
Booth .............. B18005

**TruLaser Station 7000**

The new TruLaser Station 7000 can handle all the most common metals including mild steel, stainless steel, copper, aluminum and titanium, as well as plastics.

**TRUMPF North America**
Booth .............. A2904

**TruLaser 5030 Fiber**

The TruLaser 5030 fiber 12kW impresses with its high processing speed and reproducible, high part quality - even for complex contours. Smart features make the complete cutting process more productive and more reliable than ever.

**Machining/EDM**

**VOLLMER of America**
Booth .............. D46466

**Loroch Evolution K850-M**

The Loroch Evolution K850-M is an efficient and powerful service center for small to medium sized companies to grind metal cutting circular saw blades.

**Maintenance & Repair**

**Durable Blast Parts LLC**
Booth .............. D45858

**www.durableblastparts.com**

An enhanced e-Commerce store for purchasing abrasive blast machine wear parts and components equal to or better than OEM quality.

**Material Handling/Marking**

**AGT Robotics**
Booth .............. B20045

**LayoutMaster**

With full-color projection, the LayoutMaster can project: part 3D contours, holes, hole centers, welding information, part numbers and much more.

**Bunting-Newton**
Booth .............. A5141

**MagSlide Conveyor**

MagSlide® magnetic chip conveyors are built to handle your toughest conveying jobs. Designed for the most punishing jobs, the unique magnetic conveying system present in the MagSlide conveyor provides trouble-free operation.

**Design Storage & Handling Inc**
Booth .............. D45943

**Hubtex Maxx**

HUBTEX MaxX is an indoor/outdoor electric multi-directional sideloader. The MaxX delivers innovation, safety, and enhanced ergonomics thanks to its modern design.
EMH, Inc
Booth .............. A3477
Lightweight AL System™ Lamp Post Cranes

EMH AL System™ Lamp Post Workstation Cranes are flexible and versatile, expanding workstation flexibility with more workstation placement solutions for convenient access for optimum efficiency.

Fehr Warehouse Solutions Inc
Booth .............. A5007
Fehr Ecosort

With up to 120 picks per hour, Fehr Ecosort is the fastest sorting system for long goods.

Fehr Honeycomb - Steel Distribution Center

Optimize your steel distribution center performance, reduce risk and overhead.

Fehr Honeycomb
Fehr Honeycomb allows for storing aluminum, vinyl or wood profiles in bundles, individual extrusions or load carriers.

Fehr Retrofit

Retrofit your existing AS/RS system.

Fehr Multi Tower
Fehr Multi Tower offers warehouse solutions regardless of product or industry. Optimal space utilization, maximum availability.

Gorbel Inc
Booth .............. A3518
G-Force Q2/iQ2

The Gorbel’s G-Force® and Easy Arm® Intelligent Lifting Devices use exclusive patented technology and an industrial processor controlled servo drive system to deliver unmatched lifting precision and speed.

Sideros Engineering
Booth .............. B21049
Spaziomatic

Spaziomatic Vertical storage is an automated storage and retrieval system for sheet metal, tubes and bars. Spaziomatic features an elevator to deposit and retrieve drawers and deliver them directly to the load/unload bay at a safe working height.

Therma-Tron-X Inc
Booth .............. D45351
TTX Automated Conveyor Carrier (TTX ACC®)

TTX’s ACC® is an overhead conveyance system that consists of automated carriers that provide reliable and consistent point-to-point movement of everything from small parts to heavy parts.

Zerust Corrosion Solutions
Booth .............. D47552
Z-PAK® VCI Packets

Zerust® Z-PAK® is an economical, effective, and easy-to-use VCI diffuser packet that can be used alone or, with other Zerust® packaging products to provide robust corrosion protection for ferrous metals during shipment, storage, or work-in-progress.

AEREM Indutrie Inc
Booth .............. D45750
uCube

The uCube filter is a new approach to high paint consumption spray booths reducing up to 10 times maintenance costs due to its very high loading capacity up to 40lbs per 20” x 20” pad with a filtration efficiency reaching 99%.

AIS Finishing Systems
Booth .............. D45256
Zirconium Pretreatment Filtration System

AIS is now providing its customers with a Zirconium Filter used in conjunction with the Zirconium Pretreatment System for powder, liquid, and e-coat operations.
PREPARE TO BE AMAZED
LightWELD™ 1500
HANDHELD LASER WELDING

FASTIER & EASIER
Than Traditional MIG & TIG
Discover why seasoned professionals are calling LightWELD the most revolutionary welding system available.

For more information, visit HandheldLaserWelder.com or call +1 877.474.7468
**Other Machinery/Equipment/Parts/Products**

**ASC Machine Tools**
Booth ..................... A3462
TKR-X™ Purlin Rollforming Line

TKR-X™ Rollformer offers the highest level of flexibility: manual, semi-automatic or fully automatic. The TKR-X™ Modular Punch Press uses a combination of 4-Post and CEE-Frame Die Sets to guarantee highest throughput speeds.

**Bissell Commercial**
Booth ..................... A5124
US-5 Compact Battery Sweeper

Heavy duty design for all types of sweeping both indoor and outdoor. Battery operated with vacuum suction for impressive dust control and maneuverability.

**Blast Cleaning Technologies**
Booth ..................... D45547
MSA TwistLOK e-Wheel

MSA is the next evolution of the popular M5 wheel. Threadless end liner retention, improved end and top liner sealing, and reduced parts count make for an easy to install and maintain blast wheel.

**Chase Cooling Systems**
Booth ..................... A3556
QBL & CWL Series Chillers

QBL and CWL Series serves the laser industry with a range of 2-17.5 tons. Each unit comes with two independent cooling circuits and the compact footprint of a single unit. CWL Series units have optional UL-certified control panel.

**Emmegi USA Inc**
Booth ..................... A5127
COMET R4

CNC machining centre with 5 controlled axes cantilever structure and full guarding for machining bars or workpieces made of aluminum, PVC, light alloys in general or steel up to 4 m long.

**Midwest Automation**
Booth ..................... A5306
Modular Design Deburring & Finishing Machines

Modular design, cartridge-style platforms for wet or dry metal deburring, deslagging, edge rounding, laser oxide removal and finishing using common platforms and cartridge-style abrasive head assemblies.

**Sumner A Southwire Company**
Booth ..................... B37024
LCS11, 11” Locking Clamp with Swivel Pads

Provides flexibility for clamping a variety of shapes. Swivel pads provide a larger and more stable grip surface. These pliers feature spring-loaded handle action, a trigger release for maximum locking force, and strong riveted connecting arms.

**Titan Catalytic**
Booth ..................... D45672
Titan Gas Catalytic Ovens and Heater Panels

Gas catalytic infrared equipment for the finishing industry to cover powder and liquid applications. Heaters and catalytic ovens including pre gel, booster, dry off ovens, and full cure ovens are custom designed.

**Tsunami Compressed Air Solutions**
Booth ..................... D45275
Dust Collector Regenerative Dryer

Tsunami’s drying technology is configured specifically for dust collectors to offer a clean air package for maximizing system performance and reducing operating costs.

**NEW PRODUCTS**
**Plate & Structural Fabricating**

**Akyapak USA**
Booth .............. A2174
AKYAPAK ARTOS CNC Gantry Milling Machine

Designed for use in heavy machining operations, ARTOS stands out with its precise positioning capability in X and Y axes and its fast and automatic tool change feature compared to models in this class.

**Bendmak Machinery**
Booth .............. A5738
Plate & Angle Rolling Machinery

Bendmak offers the finest selection of plate, angle and structural processing machinery.

**HAEUSLER AG**
Duggingen
Booth .............. A5338
Solution for Rerolling Cones

This solution from HAEUSLER is based on adapting a 3-roll bending machine in such a way that a conical tube can be brought to a stable position that prevents "wandering" during the calibration process. In this process, the optimal roll positions are automatically calculated by the machine after entering the cone parameters.

**Press Brakes**

**Amada America Inc**
Booth .............. A2104
HRB 1003 ATC Press Brake w/ Automatic Tool Changer

The latest advancement in press brake technology combined with AMADA’s patented Automatic Tool Changer (ATC) enables you to perform even the most complex tool setups in less than 4 minutes.

**Bystronic Inc**
Booth .............. A2126
Xpert Pro Press Brake

Xpert Pro meets the highest demands in terms of process speed and flexibility. Three models are available and fabricators can accessorize and adapt to their requirements on a modular basis.

**ERMAKSAN / ERMAKUSA**
Booth .............. A4414
ERMAKSAN FX Series Servo Electric Press Brake

Press brake, offering fast and environment friendly bending solutions. Belt technology eliminates the need for crowning on the bed and comes with 3D graphical touchscreen controller and offline software.

**Peddinghaus Corporation**
Booth .............. A2163
Anglemaster-663

The Anglemaster-663 caters to today’s fabricators’ need to automate punching, shearing and marking for angle and flat bar.

**CNC600 Control**

Automec’s CNC600 control is a 15” touch screen display offering features such as tool library, job preview, angle mode, USB backup, unlimited storage, importing photos, and more.

**HAEUSLER ARTOS CNC Gantry Milling Machine**

HRB 8025 Press Brake

The HRB Series of Press Brakes leverages AMADA’s latest bending technology and a variety of production-enhancing features to provide an outstanding price/performance ratio.

**EG 4010 Press Brake**

The EG 4010 is a compact, all-electric press brake that provides the ideal solution for producing small sheet metal components that demand a high degree of precision.

**Automec Inc**
Booth .............. A3262
CoastOne Servo-Electric Press Brakes

CoastOne Servo-Electric Press Brakes offer extremely high accuracy and repeatability (+/- 0.00008”). They use a direct drive system and no hydraulics whatsoever. Machines range from 3 ft., 25 tons to 13.5 ft., 150 tons.
Press Brakes

Pacific Press Technologies
Booth .............. A3426
Machine Upgrades/Retrofits

Pacific's machine upgrade programs increase the performance of your existing equipment. Whether you want to add CNC to an aged mechanical machine, increase speed, or upgrade controls, packages are available for every need. Backed by our Retrofit Warranty.

Revolution Machine Tools
Booth .............. A2788
RMT B-GENIUS-H 14-250 Hybrid Press Brake

B-GENIUS-H is RMT’s hybrid press brake which provides accurate bends even for small parts. Standard 4 Axis, 8’-13’ bending lengths, 110-300 Tons.

TRUMPF North America
Booth .............. A2904
TruBend 5170

The TruBend 5170 is equipped with TRUMPF’s newest generation ToolMaster which minimizes changeover time, increases productivity and lowers cost per part. It can also automatically load standard, ACB Wireless, and custom tooling.

Wila USA
Booth .............. A3120
WILA AirPower Series

Tool up with the WILA AirPower Series. The complete range of WILA’s pneumatic tool holders, top and bottom, pro and premium. Speed up operations and tool changes — and maximize productivity.

WILA Hemming Series

WILA offers a full range of hemming solutions to fit your needs. Depending on what material thicknesses and how frequently you hem, WILA has the solution.

Punching

Replacement Brush Tables
Booth .............. A3288
High-Wear Punch Press Brush Panels

OEM-quality high-wear designs that prolong the life of each brush panel.

TRUMPF North America
Booth .............. A2904
TruMatic 3000 Fiber

The TruMatic 3000 fiber is the first combined punch-laser machine from TRUMPF to feature a control panel with a Touchpoint interface. This machine also pairs a “flying” delta-drive punching head featuring all-tool rotation with a 3-kilowatt TruDisk laser.

Resistance Welding

Portwest LLC
Booth .............. B25070
Portwest FR21

This coverall is perfect for the extra warm weather demands of the offshore industry. Constructed with a lighter weight highly innovative flame-resistant twill fabric.

T. J. Snow Company
Booth .............. B28012
Online Resistance Welding Training

Online resistance welding training in the form of live, virtual seminars. These seminars can be customized to fit the applications of your company.

WeldComputer
Booth ............. B25069
WeldComputer WeldRemote™ Management System

WeldComputer’s WeldRemote™ Management System alleviates the need for support personnel to travel to different resistance welding installations. Now, manage welding operations remotely from anywhere in the world with internet access.

Robotics

ABB Robotics & Discrete Automation
Booth ............. B17038
GoFa™ Collaborative Robot

The 6-axis GoFa™ CRB 15000 is designed to support the growing demand for a collaborative robot capable of handling heavier payloads to enhance productivity and flexibility.

Abka Yazilim Otomasyon Ltd Sti
Booth ............. B12034
Agen Duo - Robotic Structural Steel Assembler

Robotic structural steel assembler helps to maximize productivity - assemble, tack and weld.
ACCUFABRICATION LLC
Booth .................. B12036
ACCUTASK 2.0 Series

Mobile robotic workstation that is easy to move around the factory and easy to setup. No code programing and has everything needed on board, air, valves and I/O connection. Can be equipped with your favorite brand of robot.

ATI Industrial Automation
Booth .................. B23036
AOV-10

Axially-compliant robotic orbital sander.

Harmonic Drive LLC
Booth .................. B12032
HPN-L

Face-Mount Value Series Planetary Gear. HPN-L Harmonic Planetary® value series gearbox provides a low cost solution without the need to compromise on quality or performance.

HGG Profiling Equipment Inc
Booth .................. B35062
ProCutter 900RB

Along with an ability to accurately cut precision profiles from 2 to 36-inch diameter, pipe up to 42 feet in length, and an affordable price, HGG’s ProCutter 900RB Series integrates a totally automated material handling system on a small footprint.

Kawasaki Robotics (USA) Inc
Booth .................. B17048
RS013N

The RS013N builds on the momentum started by the RS007N/L model by offering a 13 kg payload capacity, small footprint and flexible, IP67-classified design, ideal for practically any general application.

Mid Atlantic Machinery Automation
Booth .................. B12036
Robotic Modular Fabricator Package

Unleash the power of collaborative robots into fabrication shops with the Robotic Modular Fabricator Package.

OTC DAIHEN Inc
Booth .................. B27021
JoyPEN Joystick Pendant

The JoyPEN joystick pendant ushers in a new age of industrial robot operation and programming. Lightweight, one-handed, game controller simplicity delivers intuitive operation and faster programming of robot movement and the weld process.

FD21 Controller

The FD21 series, connected controller and teach pendant is equipped with the versatility to connect to your facilities, devices and users.

Synchro-feed Lite

Synchro-feed Lite is a simple, less expensive version of the ultra-low spatter, robotic welding technology. Advanced welding technology to reduce thin plate burn-through, deliver deep penetration with flat beads and reduce weld spatter by 98%.

FD21 Series II Robots

The B6Ls2, V8ls2 and V25s2 robots are the 8th generation (origin 1990) of 2+ meter reach robots. They are faster, lighter, slimmer, more repeatable and take up even less floor space.

OTC DAIHEN continued on next page.
CoboWeld MIG by Melton Machine featuring OTC DAIHEN’s Welbee advanced welding technology is a cobot welder for fabricators seeking the productivity of robotic arc-welding with the flexibility and ease of use of a collaborative robot.

**FD-ST v3.0**

Updated FD-ST, PC-based, offline programing and simulation software to version 3.0 including more user-requested features, enhanced functionality and physical device support for the FD21 Teach Pendant or new JoyPEN joystick pendant.

**ROTA-ARC 250 & 500**

OTC DAIHEN has expanded the ROTA-ARC series of "H"-frame indexer/positioner style of production robotic arc-welding systems, to include the ROTA-ARC 250 and ROTA-ARC 500 variants. Headstock/tailstock positioning for your lower weight parts.

**Peddinghaus Corporation**

Booth .......... A2163

PeddiBot-1200 - Robotic Plasma Coper

The Peddinghaus PeddiBot-1200 robotic plasma coper revolutionizes beam-cutting production.

**Staubli Corp**

Booth .......... B15031

TX2 6-axis Robot Models

The TX2-140, TX2-160 and TX2-160L extend the current TX2 generation. Their rigid structure and smart design make them the ideal choice for a variety of applications ranging from harsh to sterile. They bring the highest level of safety and connectivity.

**Yaskawa Motoman Robotics**

Booth .......... B20034

HC10XP Collaborative Robot

Designed to add collaborative robot welding capacity to current production, the HC10XP cobot is ideal for supplementing manual welding or for rolling up to large workpieces. Precision hand-guiding facilitates easy programming for fast implementation.

**AirMax**

Booth .......... B35016

AirMax Dust Collector Filters & Parts

AirMax provides a premium selection of cartridge filters, high-efficiency industrial blowers, as well as cages and bag filters. The products are high quality and cater to a variety of applications. The right fit at the right price, right now guaranteed.

**Bear Knuckles**

Booth .......... B27066

TIG Cowhide Welder Gloves

Bear Knuckles TIG welder gloves have a patented design that will give you better dexterity, improved grip, and high durability. Kevlar threads and reinforced leather gussets provide longer lasting construction.

**Heraeus**

Booth .......... D45158

Soluva® Air W

Designed specifically for the laser cutting industry, the A.C.T. Dust Collectors LaserPack 4 laser cutting dust collection system provides a unique, heavy-duty and effective solution for removing fume, smoke, dust and other particles from facilities.
Soluva Air W purifies the air in smaller rooms such as meeting rooms and offices. Easy maintenance, no chemicals or filters needed for highly efficient UV-C (UVGI) air disinfection to avoid business disruptions due to employee infections.

Keller USA Inc
Booth .............. A5146
AmbiWall

An ambient air filter system for welding fumes that doubles as a partition, noise insulator, tool storage, display board and more. This multi-functional, mobile unit keeps your employees safe while providing workspace flexibility.

Midwest Automation
Booth .............. A5306
Niagara Wet Dust Collectors

Designed to efficiently clean or filter contaminated air in a variety of metal grinding, deburring or sanding operations that create metal dust and other abrasive media residue. Available in three series and 15 different models as well as compact models. Made in USA.

Nordfab Ducting
Booth .............. A3336
Sealed Duct System Features

Nordfab’s QFS sealed duct system is used for oil mist, cutting fluids, vapors and other wet contaminants collection. Used at each duct connection, the easier-to-install gasket is quickly wrapped around QF® duct’s rolled edges for a secure fit.

Quick-Fit Visual® 3D Duct Installation Design

Quick-Fit Visual® is an easy-to-use, online tool for creating dust collection ductwork floorplans. QFV® provides automatic calculation of duct sizing and system requirements; quotes and 3D plans; installation documents; and .dwg drawings for use with CAD.

CGW Abrasives
Booth .............. B31017
eXtreme Cut Ceramic Cutting Wheels

CGW Abrasives’ eXtreme Cut Ceramic Cutting Wheels are made up of a high performance sharp Ceramic grain specifically engineered for extremely fast cutting and a long wheel life.

Steiner Industries
Booth .............. B29062
0263 ironFlex TIG

IronFlex® TIG Premium Kidskin with Nomex® back TIG Welding Gloves - poly lined back, and adjustable cuff.

Peddinghaus Corporation
Booth .............. A2163
335-DGA Band Saw

Cutting on the 335-DGA double miter cut band saw is facilitated by a 3º attack angle. It is linearly guided with a rugged twin column design for fast positioning to miter sawing.

Revolution Machine Tools
Booth .............. A2788
RMT S-GENIUS CS 16-16 Bandsaw

The fully automatic RMT S-GENIUS CS 16-16 bandsaw is optimized to work with carbide and bimetal blades and can be applied in areas such as steel trade, steel production, forging mills, machine manufacturing and automotive industry.

Ted Machines Inc
Booth .............. A5021
Band Saw Blades

Ted Machines Inc. works with all major manufacturers world wide to deliver bandsaw blades.
Software & Machine Controls

Accurate Die Design Software Inc./Logopress
Booth ............ D46649
Logopress ProgSim

Logopress software that acts as a virtual press and enables progressive die designers working in SOLIDWORKS to efficiently simulate, modify, and validate strip layouts and allows for taking corrective measures in design.

FlashCut CNC
Booth ............ A5109
Hi-Def Plasma Support

FlashCut CNC has full support for Hypertherm XPR, HPR and Kjellberg Smart Focus, HiFocus hi-definition plasmas. The intuitive interface is engineered for seamless access to all controls, commands and messages so you can cut accurate parts quickly and easily.

Hypertherm Inc
Booth .......... A4449
ProNest Version 14.1

Version update to the ProNest® 2021, advanced CAD/CAM nesting software for automated cutting offering new features like undo/redo, drag leads, and search for jobs.

Rotary Tube Pro 3

Rotary Tube Pro™ 3 is a major version update of its tube and pipe cutting software for machines with a rotary axis. This release contains new features and enhancements making it easy to design and cut tube parts.

New Forge LLC
Booth .......... B12035
Augmented Reality Software & Smartglass Technology

As a TeamViewer Frontline Partner, we offer augmented reality software that revolutionize the daily work of the deskless workforce. By implementing AR technology, enterprises boast an ROI by increasing the productivity of frontline workers.

Wintriss Controls Group LLC
Booth ............. D47335
ShopFloorConnect® OEE Software

ShopFloorConnect® OEE Software features a PM Tracker enabling users to track important machine preventative maintenance (PM) items by run-hours or machine cycles, issue targeted alerts when an item requires PM, and track the maintenance work history.

SmartPAC PRO Press Automation Controller

The Wintriss SmartPAC PRO Press Automation Controller features advanced ProCamPAC PRO advanced Programmable Limit Switch, Advanced DiProPAC Die Protection features and more.

Eagle Press & Equipment Co Ltd
Booth ............ D47143
Eagle Product Line

Eagle Press offers a wide variety of stamping solutions and the engineering and manufacture of hydraulic, servo and gap frame presses.

Greenerd Press & Machine Company Inc
Booth .......... D47138
2,500 Ton Hydraulic Compression Molding Press

Hydraulic press application solutions for a broad range of industries -- including a 2,500 Ton Compression Molding Press for rubber molding.

PUNCH INDUSTRY USA INC
Booth ............. D47546
Bordignon-Brand Air Scrap Remover

The BRE Air Scrap Remover for progressive stamping dies offers an improved streamlined profile, lower air consumption and easy installation.

Stamping

AIDA-America
Booth ............. D46527
NSX-1100

Up to 300 SPM, these 110-metric ton, unitized frame presses, have a stroke of 62 mm. Locally engineered for accuracy and high-volume production in automotive, appliance, hardware, and consumer goods markets.
Revolution Machine Tools
Booth .......... A2788
RMT H-SMART HSA550 Hydraulic Press

A single action press that can be used to bend, shape, hole punch, cut and straighten according to the die cut used. High precision machined frame and tables allow you to receive precise products in your production.

Wintriss Controls Group LLC
Booth .......... D47335
Wintriss Online Store

The Online Store for stampers and metal formers provides a variety of die protection controls, connection hardware and sensors that have been carefully selected to deliver superior performance in metal stamping applications.

Wintriss Virtual Die Protection Clinic

Virtual Webinar version of the Wintriss Die Protection Clinic. For over 25 years, the Wintriss Die Protection Clinic has been the metal forming industry's source for die protection and in-die sensing information and training.

Tooling

Agathon Machine Tools Inc
Booth .......... D47441
Guide System Plus

The Guide System Plus not only provides smooth action of the tool movement but also the highest accuracy/centering between the two tool halves, all in one unit.

Wintriss Controls Group LLC
Booth .......... D47335

Advanced DiProPAC

With Advanced DiProPAC, Wintriss offers die protection features on the latest versions of its SmartPAC PRO Press Automation Controller. Over ten new capabilities have been added.

Holemaker Technology LLC
Booth .......... B17071
VersaDrive Impact Rated Metal Cutting Tools

The patented VersaDrive system by Holemaker Technology modular cutting system allows cutting tools to be used with impact wrenches and drivers as well as rotary drills like magnet drills and cordless drills.

Mission Tool & Machine LLC
Booth .......... D47456
Clearing Try Out Press

1500 Ton coil fed try out press, 96 x 144 bed, Shut Height 60” over bolster.

Schwarze-Robitec GmbH
Booth .......... D45954
All Electric Cutting Device

All electric tube cutting device which is directly integrated into the bending tool.

Vertically Adjustable Pressure Die

All multi stack bending machines by Schwarze-Robitec can be equipped with a vertically adjustable pressure die as an additional CNC axis.

Tube & Pipe Fabricating or Welding

BLM Group
Booth .......... A2935
LT8.20 5kW Fiber Lasertube

LT8.20 3D Lasertube advanced features and options include: Drill and Tap, Enhanced 1-Beam Cutting Capabilities, High Pressure Dry Air Cutting, Sensorized Head Monitoring and 5kW fiber.
**NEW PRODUCTS**

**FABTECH® 2021 NEW PRODUCT PREVIEW**

**NEW PRODUCTS**

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### Tube & Pipe Fabricating or Welding

**Bystronic Inc**  
**Booth .............. A2126**  
**ByTube 130**

Available with up to 3kW Fiber laser power, the powerful, easy-to-operate Bystronic ByTube 130 delivers fast, flexible, and affordable laser tube processing for a wide range of material types and thicknesses in a fully automated workflow.

**Carell Corporation**  
**Booth .............. A5314**

**ETM Series Tube & Pipe Benders**

**ETM-HD Series**  
**Digital HMI New Controls!**

ETM Series Tube and Pipe Benders new touch screens create up to 99 programs, each with a 5-stop sequence and automatic adjustment for springback. They have capacity-minimum radius calculators and limit warning screens.

**ETM-80HD Heavy Duty Tube & Pipe Bender**

The ETM-80HD is the latest generation of tube and pipe benders. Built solid for high-performance bending of large diameter tubes on right or left sides with an easy-to-use programmable touchscreen that delivers years of reliable performance.

**ITH Tube & Pipe Mandrel Benders**

**ACH Series**

Line of “ACH” CNC Mandrel Benders including 2 Models, ACH45 1-3/4” and ACH65 2-1/2”, with up to 5 CNC controlled Axis, servomotor controlled bend angle, DBB, POB, 2 stack former head plus hydraulic clamping and mandrel extraction.

**H Series Tube & Pipe Benders**

**dynobend 3D Freeform & Rotary Draw Mandrel Bending Machine**

The Dynobend CB all-electric rotary-draw and 3D freeform bending machines for bending and rolling of tubes and profiles with ground breaking Dynobend FreeFormManager software allows the ability to download, bend and correct even 3 dimensional freeform parts through an automated algorithm that allows 2nd part correct part on even the most complicated of Freeform bent parts.

**ITEC - Innovative Tube Equipment Corporation**  
**Booth ............. D45925**

**AMOB-eMob 100 All Electric Bending Machine**

The AMOB - eMob 100 - 4” all electric 10-axis multistack CNC tube and profile bending machine now comes standard with direct drive electric bend head, carriage booster for 1xD and free form bending, vertical up/down CNC PDA, automatic spring back verification and correction and advanced CAD model based simulation software.

**Manufacturing Solutions Industries Inc**  
**Booth .............. B37026**

**C6H ChamferMate® Pipe Beveling Machine**

The Model C6H ChamferMate® is a heavy-duty, ultra-rigid pipe and tube beveling machine that is perfect for customers who focus on the 2” - 6” OD pipe range. The C6H is equipped with a 15-horsepower motor and provides 6” of stroke.

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**Midwest Automation**  
**Booth .............. A5306**

**Centerless, Polishing & Deburring Machines**

RandBright (Dry/Wet) Centerless, Finishing, Polishing and Deburring Machines run a variety of abrasive belts, finishing wheels, wire brushes, and buffing wheels for grinding, finishing, deburring, brushing, and cleaning.

**Revolution Machine Tools**  
**Booth .............. A2788**

**RMT Pipe Spool Master TGB14 CNC**

RMT Pipe Spool Master TGB14 CNC does machining/turning in a new revolutionary way! Up to 14”
**NEW PRODUCTS**

**Register at fabtechexpo.com** 35

Diameter CNC, spindle RPMs Max 400 RPM, Face Head Diameter 2.75”, X Axis Stroke 2.75”, Z Axis Stroke 16”. Threading, beveling, boring, grooving and many more.

**T-Drill Industries Inc**
Booth .............. A4508
**TEC-220**
The TEC-220 is a powerful collaring machine for up to SCH 40 pipes. The TEC-220 forms mechanically extruded outlets up to Ø 8" directly on run pipes up to 32" main pipes.

**TRUMPF North America**
Booth .............. A2904
**TruLaser Tube 5000 Fiber**
Packed with optimized features such as BevelCut, RapidCut, a maximum load weight of 18lbs per foot and a solid-state 4 kW laser, TRUMPF’s new TruLaser Tube 5000 fiber can handle a wide range of materials, from mild, stainless steel to non-ferrous metals.

**Tube & Pipe Producing**
**Kent Corporation**
Booth .............. D45946
**Termomacchine High-Frequency Induction Welders**
Termomacchine high-frequency induction welders power up to 800kW in the same chassis, while providing substantial power savings to your automatic tube mill production line.

**Thermatool Corp**
Booth .............. D45738
**HAZControl® Technology HF Welders**
Thermatool HAZControl® Technology HF Welders enable tube and pipe producers to deliver welds with uniform and repeatable weld characteristics.

**Waterjet**
**BARTON International**
Booth .............. A4574
**B.A.R.T.® - BARTON Abrasive Removal Tool**
BART is an easy-to-use, portable waterjet abrasive removal system that achieves rates of >3,000 lbs./hr. A convenient, efficient, cost-effective piece of equipment every waterjet operation needs. Made in the USA.

**Flex Machine Tools**
Booth .............. A5160
**FlexJet**
Waterjet with the top speed, maximum acceleration, proven performance, and reliable service. FlexJet will cut virtually any shape in a single step with our dynamic 5-axis cutting head.

**HIGH CAPACITY. COMPACT. PREMIUM FEATURES.**
Koike’s MD Series Power Elevating Head and Tailstock offers rugged design and premium features all in one compact package. With high-capacity, precision guidance throughout the elevation range, any size shop is ensured reliable results and long-lasting performance. Down to the smallest detail, the MD Series delivers on Koike’s signature exacting standards.

**Stop by Booth #B17016**
Jet Edge
Booth .............. A4562
Jet Edge High Velocity Pump with Advanced Controls

Jet Edge High Velocity Pumps feature advanced controls for optimum user interface and predictive maintenance capabilities.

Welding Consumables

Blue Demon Welding Products
Booth ............. B20074
Blue Demon True Flex

True Flex Bendable Tungsten Electrodes by Blue Demon Bends at room temperature for tight spaces and difficult torch angles. Works great on both AC and DC applications. Easy start and re-strikes with excellent arc stability.

Cerbaco Ltd
Booth .............. B37038
CERBACO Flexback Conformable Weld Backing

Pliable weld backing for use in CJP open root welding. This technology provides full support for a weld puddle and produces a symmetrical back bead while conforming to any geometry.

Welding Machines/Equipment

Amada America Inc
Booth .............. A2104
FLW ENSIS Fiber Laser Welder

The FLW achieves high-quality welds not possible with a conventional laser welder. This solution utilizes auto beam focus, a patented rotating lens, and a Teaching Assist System that utilizes a camera to prevent deviation from the targeted welding path.

AXXAIR USA
Booth .............. B15019
SATFX Orbital Welding Heads

Range of closed SATFX welding heads enables high quality welds in a minimal space and can easily be transformed into a cassette machine.

Kjellberg Cutting, Inc
Booth .............. A6121
Q-Series High Definition Plasma Cutting

The Q series is the latest in Kjellberg’s line-up of high-definition plasma cutting systems and offers digital control through real-time communication with its components and a browser-based operator interface. Kjellberg’s Q is ready for a digital world.

Beveler USA Inc
Booth .............. B27049
X-PIPE Beveler

Machining of pipes from Ø 3.75” (95 mm). Unlimited max diameter, possible for flat materials.

Kalas
Booth .............. B33034
SOOW Power Cord

Heavy duty flexible cord for indoor and outdoor use manufactured by Kalas with an over 60+ year history of quality and expertise.

Primo Automation Systems
Booth .............. B17074
ABW Series Pull-Through Welder

Primo Automation’s ABW series provides advanced sub-arc Pull-Through welding technology for the fabrication of steel beams for the Pre-Engineered Buildings, Bridge and Steel Construction industries.

SanRex Corporation
Booth .............. B34058
200PW (200amp Plasma Arc Welding - PAW System)
SanRex 200PW Plasma welding system offers: increased productivity, consistent arc starting etc. and is self-contained with a 200A power supply, coolant recirculator and control console.
Techniweld USA
Booth .......... B34024
Armour Guard Clairvoyant
2x4.25” Multi Shade Lens

2 x 4.25” Multi Shade Auto-Darkening Filter Lens. It is crystal clear at shade 3, is ultra-thin, all-digital, and has ultra-fast 1/16000th sec switching speeds for flicker-free TIG welding >3A.

Weil Technology North America
Booth .............. A3218
Flexible Laser Solutions with FLC CutFusion

The FLC CutFusion by Weil Technology opens up potential for 3D processing with highest precision in simultaneous laser cutting and welding in one machine. Up to three processing optics can be mounted on one joint drive axis.

Kjellberg CUTTING

✓ Plasma Cutting & Marking 0.018 to 3 inches
✓ Made in Germany
✓ Industry 4.0

Visit us at Booth #A6121
FABTECH Chicago, IL
September 13-16, 2021

www.kjellbergcutting.com
SPECIAL EVENTS

There are a lot of great events happening this year at FABTECH. You won’t want to miss the keynotes, expert panel discussions, 3D/Additive Manufacturing Showcase, and much more. All events are free and open to all attendees.

MONDAY, SEPTEMBER 13

KEYNOTE PRESENTATION | 8:30 AM – 9:30 AM

FABx TECH TALKS

This year’s FABx will feature a powerful lineup of visionary leaders who are transforming the future of manufacturing. These manufacturers are increasingly integrating technologies like automation, artificial intelligence/AI, and data analytics into all aspects of how they operate, from the production floor to the supply chain. Hear how these leaders stay competitive in this ever-changing tech world.

FABx SPEAKERS:

David Ankin
CEO, ToyMakerz, Inc.

Anna V. O’Brien
Smart Manufacturing Leader, Panasonic

Keith Otterstatter
Director of Operations, Polaris Inc.

Scott Sawyer
Co-Founder & CTO, Paperless Parts, Inc.

Jon Sobel
Co-Founder, CEO, Sight Machine

LEADERSHIP EXCHANGE | 12:30 PM – 1:30 PM

EXPLORE THE FUTURE OF ADVANCED MANUFACTURING

Advanced manufacturing is transforming the landscape of how we operate daily. Listen to our panel of experts to hear how other organizations are using advanced manufacturing for technology adoption in both products and processes and how to use that technology to remain competitive.

PANELISTS:

Anna V. O’Brien, Smart Manufacturing Leader, Panasonic

Keith Otterstatter, Director of Operations, Polaris Industries Inc.

Scott Sawyer, Co-Founder & CTO, Paperless Parts, Inc.

Jon Sobel, Co-Founder, CEO, Sight Machine

MODERATOR:

Dave O’Neil
Vice President, SME Media
TUESDAY, SEPTEMBER 14

KEYNOTE PRESENTATION | 8:30 AM – 9:30 AM

ADAM STELTZNER, Leader & Chief Engineer, NASA Mars 2020 Mission, Rover Perseverance

Into the Unknown: How Leadership, Ingenuity, and Perseverance Put a Rover on Mars

Only Adam Steltzner and his talented team at Jet Propulsion Lab could follow their “Curiosity” rover success with the stunning Mars 2020 mission to land the rover “Perseverance” on the red planet. The magnificent landing on Mars on February 18, 2021 was akin to hurling a dart from New York City to land in a 5-foot circle in Washington DC. The successful mission stands as an extraordinary leadership accomplishment in the midst of a global pandemic. In his exhilarating keynote, full of fascinating anecdotes and breathtaking images, Steltzner shares his own innovation challenges, leadership struggles, and flawless execution. Most importantly, he shows how you can overcome daunting obstacles in times of uncertainty and change.

LEADERSHIP EXCHANGE | 12:30 PM – 1:30 PM

STATE OF THE INDUSTRY: Navigating into 2022

The manufacturing industry is in a constant state of transformation. Manufacturers are faced with pressing questions as they strive to meet needs in supply, labor, and new technologies. What does future steel-making capacity look like in North America? What can shops do to maintain material inventories and minimize risk? How can manufacturers streamline quoting activities, eliminate redundancies and manual intervention when it comes to front office activities and shop floor production? How can automation help increase or save jobs? Our panel of experts will focus on addressing these questions and more as we look ahead to 2022.

MODERATOR:
Dan Davis
Editor-in-Chief,
The FABRICATOR®

Todd Ludlow
President, Ludlow Manufacturing

Adria Haines
Regional Head of Smart Factory Solutions, Bystronic

Bryan Tice
Senior Partner, Metal Edge Partners LLC
WEDNESDAY, SEPTEMBER 15

KEYNOTE PRESENTATION | 8:30 AM – 9:30 AM

DAVID ANKIN, CEO of ToyMakerz, Inc.

David Ankin is a hands-on entrepreneur, former stunt man, motorcycle racer, and custom motor vehicle fabricator that specializes in one-off custom builds & OEM enhancements for anything with wheels. As the owner of the shop Toymakerz, Ankin is living his dream creating everything from monster trucks to race cars on his TV show of the same name, ToyMakerz. The series follows his team as they bring unrivaled ingenuity and a unique skill set to motorized builds for a wide array of customers. On stage, Dave will share his secrets to success as a leader in the fabrication business and how his father has been his biggest inspiration.

LEADERSHIP EXCHANGE | 12:30 PM – 1:30 PM

WHY CAN’T THEY JUST WORK TOGETHER? Importance of Mobile Robot and Standard Robot Interoperability to Increase Adoption

As anyone who has ever designed, built, or deployed robots can tell you – no one robot can do it all. As demand grows for automation, companies are increasingly requiring robots for specialized tasks within logistics and manufacturing applications. It is therefore imperative that robots and mobile robots seamlessly work well together. Thankfully, there are several organizations within the robotics and automation communities working hard to create technology, standards, and best practices to address this.

MODERATOR: Arnie Kravitz
Chief Technology Officer, ARM Institute

Samir Patel,
Senior Director of Robotics Engineering-Kawasaki Robotics (USA), Inc.

Aaron Prather
Senior Advisor-Technology Research & Planning, FedEx

Jason Walker,
CEO & Co-Founder, Waypoint Robotics

Ben Waters,
CEO & Co-Founder, Wibotic
THURSDAY, SEPTEMBER 16

KEYNOTE PRESENTATION | 8:30 AM – 9:30 AM

ADAM GENEI, Owner of Mobsteel and Detroit Steel Wheel Co.

The Greatest Machines Ever Made: Cultivating the Next Generation of American Workers

Adam will discuss his workforce development formula, which has created a positive, invested, and competitive team, embodying the “out work everyone” attitude. His talk aims to prepare our next generation of workforce for navigating their way through our trades and businesses. Focusing on character, work ethic, and long-term thinking, Adam will share the milestones and learning moments he has experienced while building his worldwide brands Mobsteel and Detroit Steel Wheel Co.

LEADERSHIP EXCHANGE | 11:00 AM - 12:00 PM

ATTRACTING & PREPARING THE NEXT GENERATION OF MANUFACTURING TALENT

The skills gap could lead to a shortage of as many as 2.4 million manufacturing workers in the next decade. How do we get involved and share awareness to encourage the next generation to pursue manufacturing careers? This panel of experts will share how to engage, inspire, and prepare the next generation of manufacturing workforce.

MODERATOR:
Sheila LaMothe
Executive Director,
CCAI Finishing Education Foundation

Ed Dernulc
Director – Foundation, FMA

Nichol Lopriore
Executive Director, PMA Education Foundation

Rob Luce
Vice President, SME Education Foundation

Monica Pfarr
Executive Director, AWS Foundation

Monday, September 13 – Thursday, September 16

3D/ADDITIVE MANUFACTURING SHOWCASE

Located in South Hall, the showcase features industry-leading companies sharing 20-minute presentations on the latest in the Additive Manufacturing community.
### MONDAY, SEPTEMBER 13

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<td><strong>FINISHING</strong></td>
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<td>NEW! C12: I Want to Ecoat, Now What?</td>
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<td><strong>CUTTING</strong></td>
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<td>NEW! C22: Powder Coating Basics - A Fundamental Understanding of a Powder Coating System</td>
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<td><strong>LASER</strong></td>
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<td><strong>MANAGEMENT</strong></td>
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**WELDING**

- W1: How to Create and Write a Quality Manual for the ATF Program
- W2: Overview of Welding Inspection

Detailed Conference Program session descriptions, speakers, pricing, room locations and more can be found at fabtechexpo.com/conference.
### TUESDAY, SEPTEMBER 14

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<tr>
<th>TECHNOLOGY</th>
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<td><strong>3D/ADITIVE MANUFACTURING</strong></td>
<td><strong>NEW! [WS1]</strong>: Navigating Technology and Design Considerations in Additive Manufacturing Workshop (8:00 AM - 12:00 PM)</td>
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<td><strong>F17</strong>: Viable Power Quality &amp; Legal Issues to Sustain Additive Processes</td>
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<td><strong>NEW! [F24]</strong>: Position Your Business for Future Growth &amp; Speed Up the Workforce with Automation Process</td>
<td><strong>NEW! [F25]</strong>: Do You Know How Much Money You Are Losing Due to Equipment Downtime?</td>
<td><strong>NEW! [WS4]</strong>: An Introduction to the World of AGVs: Identifying the Considerations for a Successful Application Workshop (1:00 PM - 5:00 PM)</td>
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<tr>
<td><strong>CUTTING</strong></td>
<td><strong>NEW! [F35]</strong>: Advancements in Cutting Automation</td>
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<tr>
<td><strong>FINISHING</strong></td>
<td><strong>NEW! [C14]</strong>: Automation - Controlling the Process</td>
<td><strong>NEW! [C15]</strong>: Busting the Myths: What Really Matters in Metal Cleaning</td>
<td><strong>NEW! [C16]</strong>: Improving System Performance</td>
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<td></td>
<td>[C34]: Pretreatment - Get The Latest and Greatest!</td>
<td>[C35]: See it, Touch it, Fix it - Identifying and Solving Finishing Defects</td>
<td><strong>NEW! [C36]</strong>: Solutions for Metal Cleaning Issues</td>
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<tr>
<td><strong>FORMING &amp; FABRICATING</strong></td>
<td><strong>F44</strong>: Roll Forming: In-line Punching, Cutoff Dies, and Press Tonnage</td>
<td><strong>F45</strong>: Machine Safeguarding</td>
<td><strong>F46</strong>: Roll Forming: Justification and Welding Profiles</td>
<td><strong>NEW! [F47]</strong>: Addressing Modern Day Metals in the Roll Forming Process</td>
</tr>
<tr>
<td><strong>JOB SHOP</strong></td>
<td><strong>NEW! [F74]</strong>: Improving Production Outcomes Through Cross-Crew Synthesis</td>
<td><strong>NEW! [F75]</strong>: Made to Order Tooling &amp; Production Scheduling</td>
<td><strong>F76</strong>: Are Scheduling Problems Really Symptoms: “A Quick Fix for ‘Job Shops”</td>
<td><strong>NEW! [F77]</strong>: Transforming a Tired Manufacturing Company Back to an Industry Leader</td>
</tr>
<tr>
<td><strong>LASER</strong></td>
<td><strong>NEW! [F34]</strong>: Laser Ecosystems for Fiber Laser Cutting &amp; Surface Cleaning</td>
<td><strong>NEW! [F36]</strong>: Advantages of Laser Welding Applications</td>
<td><strong>NEW! [F37]</strong>: Industrial Laser and Cutting Applications &amp; Solutions</td>
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<tr>
<td><strong>LEAN</strong></td>
<td><strong>NEW! [WS6]</strong>: Lean Overview - Principles &amp; Practices Hands-On Learning Workshop (8:00 AM - 12:00 PM)</td>
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<td><strong>F56</strong>: Lean Principle: Value Stream Mapping: Understanding the Whole from Sales to Shop to Customer</td>
<td><strong>F57</strong>: Lean Principle: A3 Thinking; Developing People &amp; Solving Problems</td>
</tr>
<tr>
<td><strong>MANAGEMENT</strong></td>
<td><strong>NEW! [F64]</strong>: Gen Z Is Coming - What You Need to Know for Your Business</td>
<td><strong>NEW! [F65]</strong>: That Was Fun! Where Are We in 2021?</td>
<td><strong>NEW! [F66]</strong>: Connection Perfection: The Business Case for Building Community</td>
<td><strong>NEW! [F67]</strong>: Strategies To Create a Workplace Culture That Works!</td>
</tr>
<tr>
<td><strong>MARKETING &amp; SALES</strong></td>
<td><strong>NEW! [F84]</strong>: Winning With Social Media &amp; Website Connections</td>
<td><strong>NEW! [F85]</strong>: Ensuring A Successful Product Launch</td>
<td><strong>NEW! [F86]</strong>: Building an Inside (Outbound) Sales Team</td>
<td><strong>NEW! [F87]</strong>: Client Engagement: Compete on Awesome</td>
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<tr>
<td><strong>SMART MANUFACTURING</strong></td>
<td><strong>NEW! [F94]</strong>: Key Steps to Jump Start Your Smart Manufacturing Journey</td>
<td><strong>NEW! [F95]</strong>: The Manufacturers Data-Driven Playbook</td>
<td><strong>NEW! [WS10]</strong>: Digital Transformation Models for Industry 4.0 Workshop (1:00 PM - 4:00 PM)</td>
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<tr>
<td><strong>STAMPING</strong></td>
<td><strong>NEW! [S14]</strong>: Planning and Estimating Stamping Dies</td>
<td><strong>S15</strong>: Processing Parts for Progressive Dies - Evaluating Strip Layouts</td>
<td><strong>S16</strong>: Processing Parts for Progressive Dies - Engineering Principles and Design Guidelines</td>
<td><strong>S17</strong>: Automatic In-Die Part Quality Monitoring &amp; Tool Adjustments</td>
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<tr>
<td><strong>WORKFORCE DEVELOPMENT</strong></td>
<td><strong>NEW! [F114]</strong>: Blue-Collar Leadership® &amp; Culture: The 5 Components for Building High-Performance Teams</td>
<td><strong>NEW! [F115]</strong>: The Art of Assertive Communication</td>
<td><strong>F116</strong>: How to Attract and Keep the Right Talent</td>
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<td><strong>WELDING</strong></td>
<td><strong>W3</strong>: AWS/Weld-Ed Conference - Project Based Welding Curriculum</td>
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<td><strong>W4</strong>: Aluminum Welding</td>
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<td><strong>W5</strong>: Advanced NDT Methods and Your Future as a CWI</td>
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<td><strong>W6</strong>: Metallurgy (Intermediate)</td>
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**WS10**: Digital Transformation Models for Industry 4.0 Workshop (1:00 PM - 4:00 PM)

**WS10**: Digital Transformation Models for Industry 4.0 Workshop (1:00 PM - 4:00 PM)

**WS10**: Digital Transformation Models for Industry 4.0 Workshop (1:00 PM - 4:00 PM)

Detailed Conference Program session descriptions, speakers, pricing, room locations and more can be found at fabtechexpo.com/conference.
## WEDNESDAY, SEPTEMBER 15

<table>
<thead>
<tr>
<th>TECHNOLOGY</th>
<th>8:00 AM - 9:30 AM</th>
<th>10:30 AM - 12:00 PM</th>
<th>1:00 PM - 2:30 PM</th>
<th>3:30 PM - 5:00 PM</th>
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<tbody>
<tr>
<td><strong>3D/ADDITIVE MANUFACTURING</strong></td>
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<tr>
<td>NEW! ▬ W52: Pre and Post Processing of Additive Parts Workshop (8:00 AM - 12:00 PM)</td>
<td></td>
<td>F101: Continuous Improvement for Additive Manufacturing Initiatives</td>
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<td>F102: Materials and Joining for Plastic &amp; Metal AM Technology</td>
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<td>AUTOMATION/ROBOTICS</td>
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<tr>
<td>CUTTING</td>
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<tr>
<td>NEW! ▬ F38: Advancements in 3D Plasma and Waterjet Cutting</td>
<td>F39: Getting the Most Out of Your Waterjet</td>
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<tr>
<td>FINISHING</td>
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<tr>
<td>NEW! ▬ C200: Powder Coating 101 Workshop in Spanish - Básicos del Recubrimiento en Polvo 101 Taller en Español - Day 1 (9:00 AM - 4:00 PM)</td>
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<tr>
<td>FORMING &amp; FABRICATING</td>
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<td>JOB SHOP</td>
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<tr>
<td>▬ F78: Your Family Business: Everything You Need to Know</td>
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<td>F79: Revolutionizing the manufacturing Industry with XR Technology</td>
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<td>F702: Building Business Resilience Next Steps Now</td>
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<td>LEAN</td>
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<tr>
<td>MANAGEMENT</td>
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<tr>
<td>NEW! ▬ F68: How to Build a Better Supply Chain for your Business</td>
<td>NEW! ▬ F69: Thriving Under Pressure: Revenue Growth In a New Business Paradigm</td>
<td>NEW! ▬ F601: Markets &amp; Energy Incentives for Manufacturing</td>
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<tr>
<td>NEW! ▬ F88: Creating an Inbound Marketing Action Plan for Manufacturers Who Are Prioritizing Online Lead Generation</td>
<td>NEW! ▬ F89: How Industrial and Manufacturing Companies Create Predictable Revenue Growth</td>
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<tr>
<td>MARKETING &amp; SALES</td>
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<td>NEW! ▬ WS11: Smart Manufacturing Bootcamp (8:00 AM - 5:00 PM)</td>
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<tr>
<td>SMART MANUFACTURING</td>
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<td>WORKFORCE DEVELOPMENT</td>
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<tr>
<td>NEW! ▬ WS12: Leadership Skills &amp; Development Workshop (8:00 AM - 12:30 PM)</td>
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<td>WELDING</td>
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<td>W7: Additive/ASME</td>
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<td>W8: Metallurgy (Advance)</td>
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</table>

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## THURSDAY, SEPTEMBER 16

<table>
<thead>
<tr>
<th>TECHNOLOGY</th>
<th>8:00 AM - 9:30 AM</th>
<th>10:30 AM - 12:00 PM</th>
<th>1:00 PM - 2:30 PM</th>
<th>3:30 PM - 5:00 PM</th>
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<tbody>
<tr>
<td><strong>AUTOMATION/ROBOTICS</strong></td>
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<tr>
<td>NEW! ■ F203: Optimize Your Automation Joining Process</td>
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<td><strong>FINISHING</strong></td>
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<tr>
<td>NEW! ■ C200: Powder Coating 101 Workshop in Spanish - Básicos del Recubrimiento en Polvo 101 Taller en Español - Day 2 (8:00 AM - 12:00 PM)</td>
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<td><strong>FORMING &amp; FABRICATING</strong></td>
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<td>NEW! ■ F403: Form Tapping</td>
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<td>NEW! ■ F404: Combination Hybrids – An Arranged Marriage by Manufacturers</td>
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<td><strong>SMART MANUFACTURING</strong></td>
<td>■ F903: The Promise of Industry 4.0 &amp; Lean Management</td>
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<td>NEW! ■ F904: Driving Change with Your Data &amp; Implementing an Industry 4.0 Strategy</td>
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### WELDING SESSIONS

<table>
<thead>
<tr>
<th>WELDING SESSIONS</th>
<th>8:00 AM - 11:00 AM</th>
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<tbody>
<tr>
<td>W9: Weld Cracking</td>
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<tr>
<td>W10: ASME Codes and Standards Update</td>
<td>8:00 AM - 11:00 AM</td>
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**EXPERIENCE LEVELS**

Use this key along with the Schedule-at-a-Glance to find the education level that meets your needs.

- **Basic** – Recommended for the attendee who is new to the industry or needs a refresher on the topic.
- **Intermediate** – Designed for the attendee who already has a basic understanding of the subject matter.
- **Advanced** – For the attendee with several years of experience who is seeking more in-depth information.

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**CONFERENCE TRACK SPONSORS:**

- **AUTOMATION/ROBOTICS**
  - Modula
  - Salvagnini
    - It’s all about the PART

- **SMART MANUFACTURING**
  - Sage
2021 SPECIAL PRICING INFORMATION

The FABTECH event partners want to give back to manufacturing and support training and education needs for 2021 and beyond. We want to help companies prioritize training right now by offering the **LOWEST RATES** ever on our conference programs. With these special rates, there has never been a better time to take advantage of all the learning opportunities at FABTECH.

EXHIBITS ONLY

Registration is FREE through September 9. Beginning September 10, the cost to attend the exhibits is $50. AWS, FMA, SME, PMA, and CCAI members may always attend the exhibits for FREE with proof of membership.

<table>
<thead>
<tr>
<th>FABTECH Items and Pricing</th>
<th>Member</th>
<th>Non-member</th>
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<tbody>
<tr>
<td>1 Session</td>
<td>$150</td>
<td>$170</td>
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<tr>
<td>2 Sessions</td>
<td>$200</td>
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<td>3 Sessions</td>
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<td>$285</td>
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<tr>
<td>4 Sessions</td>
<td>$320</td>
<td>$340</td>
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<td><strong>Full Conference: (5 or more sessions) BEST VALUE!</strong></td>
<td>$375</td>
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<tr>
<td>Half-Day Workshops</td>
<td>$225</td>
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<tr>
<td>Full-Day Workshops</td>
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<tr>
<td>Two-Day Finishing Workshops</td>
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WELDING TRACK

<table>
<thead>
<tr>
<th>AWS/Weld-Ed Conference</th>
<th>Member</th>
<th>Non-member*</th>
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<tbody>
<tr>
<td></td>
<td>$25</td>
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<tr>
<td>Half-Day Welding Sessions</td>
<td>$345</td>
<td>$430</td>
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* Non-member price for AWS Welding Sessions only includes a one-year AWS Individual Membership.

CONFERENCE CANCELLATION POLICY: Cancellations and refund requests (for paid conference registrations) must be made in writing to Attn: Betsy Bonnell: FABTECH Conference Cancellation, or sent to bbonnell@sme.org no later than September 3, 2021, to receive a full refund minus a $50 administrative fee. Cancellations received after this date are non-refundable. Substitutions allowed.
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