NEW PRODUCT PREVIEW
A SAMPLE OF NEW PRODUCTS SET TO DEBUT AT FABTECH 2017

FABTECH 2017
CHICAGO
NOV 6 – 9

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MESA MITSUBISHI LASER
Partner with AMADA at FABTECH and learn how to thrive in The New Era of American Manufacturing.

- **HG 1003 ATC**
  Press Brake with Automatic Tool Changer

- **ENSIS 3015 RI**
  3kW Fiber Laser with Rotary Index

- **LCG 3015 AJ + AMS 3015 CLT**
  9kW Fiber Laser with Automated Material Handling

- **LC 2515 CI AJ + ASR 3015 NTK**
  Punch/Fiber Laser Combination Machine with Automated Material Handling

- **HG 1003 ARs**
  Integrated Robotic Bending System

- **FLW 4000 MS**
  4kW Fiber Laser Robotic Welding System
  *Via live video feed.*

Today's focus is on revitalizing U.S. manufacturing — with American goods built by American workers. This defines the New Era of American Manufacturing.

As fabricators develop strategies to meet the demands of this new era, AMADA’s Manufacturing Facility in Brea, California, is building industry-leading automated solutions that set the standards for performance and reliability.
FABTECH provides a dynamic environment where you can meet with world-class suppliers, see the latest industry products, developments and trends, and uncover the tools to improve productivity, facilitate growth, and increase profits.

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➤ EXPLORE + GROW
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➤ FABTECH 2017 FEATURES
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CHICAGO, IL 60616

SHOW ADMISSION
Exhibit-only attendance is FREE if you register by November 3, 2017. Beginning November 4, 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.

HOW TO REGISTER
Register today online at fabtechexpo.com.

SHOW HOURS
MONDAY, NOVEMBER 6
10:00 AM – 6:00 PM
TUESDAY, NOVEMBER 7
9:00 AM – 5:00 PM
WEDNESDAY, NOVEMBER 8
9:00 AM – 5:00 PM
THURSDAY, NOVEMBER 9
9:00 AM – 3:00 PM

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! Don’t miss the dining scene, which offers world-renowned restaurants, amazing steakhouses, and trendy, casual spots featuring the famous Chicago-style deep-dish pizza. Enjoy a bite with colleagues and new friends as you refuel for the next day on the show floor.

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/hotels.

DOWNLOAD THE FABTECH MOBILE APP
Download the FABTECH app to access show info on the go — exhibitor lists, a floor plan, sessions, agenda planner and more at fabtechexpo.com/mobile-app.
New at FABTECH

The TruLaser Tube 5000 fiber
Laser tube cutting done right

For the first time at FABTECH, visitors will see solid-state laser tube cutting without compromise on the TruLaser Tube 5000 fiber. The intelligent machine design eliminates the need for a fully enclosed housing, providing unparalleled access to the machine. Our RapidCut feature outperforms traditional tube cutting by up to 15 percent. An automatic clamping system adapts quickly to any shape and never needs adjustment, minimizing downtime and maximizing cut quality. Stop by our booths and see firsthand how TRUMPF innovation can keep you a step ahead of the competition.

FABTECH Booths A2601, B11013, B103 / www.trumpf.com
Explore equipment and services from leading companies in the metal forming, fabricating, welding and finishing industries. Go to fabtechexpo.com for the most up-to-date exhibitor list.
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 Search tab at fabtechexpo.com.

Additive Manufacturing/3D Printing/Rapid Prototyping

Creaform
Booth ................. B64
MaxSHOT 3D

The MaxSHOT NEXT™ is an optical coordinate measuring system for large-scale metrology projects. It offers the highest measurement accuracy & repeatability for parts from 2 to 10 m. MaxSHOT 3D is ideal for users of any level—even for non-metrology experts.

MakerGear
Booth ................. B60
MakerGear M3-ID (Independent Dual)

The MakerGear M3 Independent Dual (M3-ID) offers professional 3D printing in a desktop format. Through its use of independent print heads, the M3-ID offers superior multi-material printing and 2x throughput for single material prints.

Met-L-Flo Inc
Booth ................. B63
Certified Additive Manufacturing Parts

ISO, AS, D6-51991, and ITAR Certifications apply to Met-L-Flo Additive Manufacturing and low volume products for tooling or end use. Full reports available in FAI or other inspection formats.

Raise3d Inc.
Booth ................. B95
Raise3D N2 Plus

Large scale, precision FFF 3D Printer. Build Volume 12” x 12” x 24” (305 x 305 x 610 mm) print with materials up to 300°C with our innovative all-metal hotend.

solidThinking Inc
Booth ................. B71
Click2Form

solidThinking Click2Form is a sheet metal forming simulation software that allows users to better design products while considering early formability, material utilization and cost.

Ultimaker
Booth ................. B92
Ultimaker 3 & 3 Extended

Achieve complex designs and improved 3D print performance with the Ultimaker 3’s unique auto-nozzle lifting system, professional build and support material combinations, and swappable print cores.

Arc Welding

Abicor Binzel
Booth ................. B19045
ABIMIG AT (Manual MIG Torch)

ABIMIG AT combines a lightweight cable, ergonomic handle, comfortable triggering option, and quick-change, rotating swannecks. Available up to 400 A.

SpinArc (Machine MIG Torch)

Using a rotating wire with contact tip extension, SpinArc allows for deep-grooved penetration. By propelling the molten droplets of metal, it creates excellent sidewall fusion and minimizes the need for beveling.

ZEISS Industrial Metrology
Booth ................. B73
ZEISS COMET L3 D 2

The ultra-compact 3D sensor offers great flexibility, a high measuring speed and impressive performance.
NEW PRODUCTS

**Arc Welding**

**ARC Specialties Inc**

Booth .............. B35047
ARC-05HVTe Horizontal, Vertical and Tilt Cladding

The ARC-05HVTe is an automated system that has the capability to weld in the horizontal or vertical position or at any angle between the 0 and 90 degree positions on the ID and OD of cylindrical parts.

**CK Worldwide**

Booth .............. B31003
UltraTIG Series Torch Package

The UltraTIG series is the fusion of 50 years of CK Worldwide innovations into a convenient torch package.

**TRU-FIT Products**

TRU-Weld
Booth .............. B35056
SC1100

The SC1100 enables stud welding with long cables in a portable machine bringing convenience and ease of use at an affordable price. Capable of welding up to 5/8" studs.

**Weldobot Technologies Inc**

Booth .............. C41236
SuperMIG

The SuperMIG hybrid welding system is an innovative welding technology based on combining two well-known and reliable welding processes: plasma arc and GMAW. This process can replace and improve most welding results achieved by standard welding systems.

**Assembly**

**CMP Automation**

Booth .............. B18083
Metal Component Assembly Automation

CMP designs and builds rotary dial transfer systems to meet demands of high volume production for metal component assembly in various industries. These types of machines provide proven process and assembly benefits that will meet production throughput.

**Bending/Forming**

**Boldrini Srl**

Booth .............. A4248
RIBO 15ELCSF 4000 CNC Flanging Machine

The world's first successful automatic CNC playback control flanging machine based on motion controls. Flange the first head, then move aside and watch the machine automatically flange the next heads without manual intervention.

**Carell Corporation**

Booth .............. A4873
ETM-90HD 3" Pipe Capacity Bending Machine

**New Digital HMI**

ETM90HD

ETM-90HD Rotary Pipe & Tube Bender is constructed from solid steel plate, no castings, 3" pipe & 3.5" tube capacity. New Digital HMI with 40 programs x 5 bends each includes auto capacity material calculator.

**CMP Automation**

Booth .............. B18083
Servo Nylon Tube Bender (SNB100)

The Servo Nylon Tube Bender is a fully flexible Nylon Tube Bending Machine. The SNB100 is capable of bending both prototype and production volume nylon tubes. This patent pending technology can revolutionize how you produce nylon tubes.

**Boschert Precision Machinery Inc**

Booth .............. A2267
CU FLEX

The CU Flex is a 3-in-1 copper bus bar processing center. Punch, shear and bend copper bar on one machine with accuracy and reliability of a Boschert. A simple CNC makes this a cell for short runs and small production of precision copper bus bars.

**AMB Picot Plate Bending Rolls**

Boschert USA is proud to bring Picot plate bending rolls back to North America. Picot built its first bending rolls for 150 years and invented CNC rolling. They now make a giant step forward with Easybend.
NEW PRODUCTS

Register at fabtechexpo.com

Bending/Forming

MegaFab
Booth A3840
Bertsch Bending Roll

MetalForming Inc
Booth A4853
EVOLUTION SPB

The EVOLUTION offers the highest level of technology available in semi-automated, hi-speed bi-directional folding with automatic tool change.

Steelmax Tools
Booth B29066
Automatic and Manual Portable Pipe Beveling System

Steelmax Tools introduces its MPB26 and APB32 portable pipe beveling machines incorporating rotary milling heads with replaceable carbide inserts producing consistent, accurate weld preparation.

TRUMPF Inc
Booth A2601
ToolMaster

The ToolMaster is TRUMPF’s automatic bending tool changer. It’s innovative design allows for fast tool changes of TRUMPF Standard tools as well as special tools. The ToolMaster can be retrofitted to existing TruBend Series 5000 machines and may also be used with the TruBend Cell 5000 for automated bending production.

Business Services

American Welding Society
Booth C41336
Welding Source

The Welding Source is a news and information site at http://welding-source.org/, providing professionals with up to date content relevant to industries, careers, and interests.

Chemical Coaters Assoc Int’l
Booth A6135
Liquid Coatings & Equipment Training Manual

A guide to operating a liquid coating system & managing the process for efficiency & profit, emphasizing issues affecting daily operations. It combines material from two previous CCAI manuals offering the most updated information on coatings & equipment.

I need reusable wraps to mask a steel pipe. They must be easy to install and remove, and withstand extreme temperatures up to 500°F.

Caplugs specializes in the design and production of custom masking solutions. With six different molding processes and comprehensive custom die-cutting capabilities, Caplugs can produce a masking solution for your most challenging applications.

Custom solutions don’t have to be expensive. With 3,000+ production-ready custom molds, an in-house tool room and an experienced team of masking specialists, a custom solution from Caplugs is fast and economical.

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Bending Basics Book

This textbook is an A-Z reference guide celebrating the art of press brakes. It is an excellent teaching resource for classroom and on-the-job-training.

Machine Tool Technician Certificate Program

FMA’s assessment-based Machine Tool Technician certificate program provides education and training in the machine installation start up and repair technician field. Enhance baseline skill sets through interactive instruction and group exercises.

Welding for the Non-Welder Hands-on Workshop

This workshop provides a basic introduction to safety and welding processes. Held at the FMA Metal Fabrication Lab on Harper College’s Palatine, Ill. campus attendees will be able to practice their skills on advanced equipment.

Precision Metalforming Association

The C4MC website highlights metalforming as an outstanding career option and provides resources to assist companies in showcasing the industry on Manufacturing Day and beyond. It includes videos featuring employees who are passionate about their careers, as well as brochures promoting careers in metalforming.

SME

Smart Manufacturing Magazine

Smart Manufacturing is a business-to-business magazine that focuses on advanced manufacturing technologies and tools that are driven or enhanced by integrated information technology (IT).

Vacuum Tension Stand for Slitting Lines

B+S introduces the Vacuum Tension Stand for slitting lines. Material thickness from 0.001” to 0.125” can be tightly rewound without the help of any other tensioning devise.

COE Press Equipment Corporation

Series 250 Power Straightener

COE’s Series 250 power straightener offers 30% improvement in strength and rigidity capable of processing a wide range of materials including AHSS. For coil widths from 1.0” to 54”, thickness from .010” to .187”, coil weights up to 20,000 lbs.

Messer Cutting Systems

MetalMaster 2.0

The MetalMaster Xcel features state-of-the-art industry leading traversing speeds of 3000 IPM, robust design and high acceleration drives.
Titan III

TITAN III
POWERFUL PRODUCTIVITY

Featuring linear ways in the Y-Axis, along with a rack and pinion drives to provide smooth cut edges and precise holes.

MPC2000

MPC2000
High Performance Heavy-duty Workhorse

The MPC2000 features enhanced linear ways, long-life band drives, and larger end trucks. A heavy-duty workhorse that drills, laser cuts and bevel cuts, and marks with multiple processes, fast speed and superior cut quality.

TMC4500 DB

TMC4500 DB
Dual Beam Cutting Machine

The TMC4500 DB is heavy-duty dual box-beam constructed gantry cutting machine. The dual beam design is supported by massive 10 foot end-trucks for greater stability, providing support for Messer’s largest cutting tools.

EdgeMax

The EdgeMax by Messer Cutting Systems is designed as a compact machine with a rugged unitized steel table / frame. Options include plasma and oxyfuel cutting, including marking.

The Slagger®

THE SLAGGER
SELF-CLEANING DOWNDRAFT TABLE

Automated self cleaning table that increases arc-on time by drastically reducing cleaning downtime.

Park Industries

Booth ............ A4088
KANO HD

The reliable KANO HD CNC plasma cutting machine accurately delivers productivity. It is built with a heavy-duty steel, unitized design configured with a Hypertherm® EDGE Connect CNC, a HPRXD plasma system and Park Industries’ exclusive TracKlean table.

Praxair Inc

Booth ............ B23049
ProStar™ Lancer Series CNC Cutting Tables

Praxair’s ProStar™ Lancer Series CNC plasma cutting systems are an affordable, easily deployed solution for the steel processing needs of light fabricators, job shops, HVAC and sign companies—as well as artists.

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*See the schedule-at-a-glance on pages 35-38.
Finishing

Col-Met Engineered Finishing Solutions
Booth ............ A6442
RP Paint Arrestors

Col-Met now offers a complete line of paint arrestors. These disposable paint overspray collectors are a cost effective, efficient way to handle any overspray requirement.

Durr Systems Inc
Booth ............ A6284
ready2spray, Robot EcoRP 10 R1100

The ready2spray Robot EcoRP 10 R1100 is a high performance, compact paint robot for industrial applications.

EcoDose 2K – 2K Dosing Unit

Solution for 2K materials application.

Rotary Package

Applications by rotary atomizers.

Gema USA Inc
Booth ............ A6243
RobotGun GM03-R Series

Gema’s RobotGun allows for easy management of complex coating requirements with a high degree of automation. Providing repeatable and constant high quality coating results, the RobotGun saves money and increases productivity.

General Automatic Transfer
Booth ............ A6453
Evaporator

GAT Finishing Systems presents the innovative 1 GPM overflow and waste water evaporator.

COR-MET®

COR-MET QWP Stainless Steel Flux Coated TIG Wire.

Eliminate the need for gas purging and backing for TIG pipe welding. The QWP Flux Coated TIG rod forms a slag on the backside of the pipe protecting the weld from oxidation (sugaring).

Grades available

Call for special chemistry and diameter requests.

Manufactured by COR-MET INC.,
Brighton, Michigan USA 800-848-2719
cor-met.com / sales@cor-met.com
**Houghton International Inc**

Booth ............ A6581

Zero-Discharge Spray Washer Pretreatment Process

A chemical process allowing users to eliminate spray washer chemical and rinse water effluent concerns while maintaining the highest level of production quality possible.

**LISSMAC Corp**

Booth ............ A4842

Grinding Machine SMD 123 RE

Universal entry level dry deburring machine for single-sided, uniform edge rounding. The SMD 123 RE delivers consistent inside and outside edge rounding on steel, stainless, and aluminum parts.

**Gases & Gas Equipment**

**McDantim Inc**

Booth ............ B25069

Trumix® TM28450

The TM28450 will provide two different blends of a two-component mixture and can deliver 450 scfh of both blends at the same time and maintain +/- 10% accuracy.

Trumix® TM4000-2

Trumix® TMA950-3

McDantim’s TMA950-3 gas blending system provides up to 950 scfh of a three-component gas blend. Accurate mixtures of any three of the following gases: Ar, N2, CO2, O2, He, or H2 can be produced on-site in the exact ratios required.

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Lisa Johnson
COLE-TUVE, Inc.
Metal Fabricating Machine Specialist

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Sahinler Excludes North American Distributor for 24 Years
Gases & Gas Equipment

Praxair Inc
Booth ............ B23049
Stargon™ VS Shielding Gas

Praxair’s Stargon™ VS welding blend helps improve throughput and productivity while reducing overall costs.

Stargon™ AL Shielding Gas

Praxair’s Stargon AL welding blend for aluminum helps fabricators improve weld quality in GMAW and GTAW processes.

Inspection & Testing

Fluke Process Instruments
Booth ............ A5739
EasyTrack3

EasyTrack3 is the third generation of the globally accepted Datapaq EasyTrack brand designed specifically for the demands of the powder/paint coating market. It combines ease of use with reliability, but now with more choice and operational capability.

Olympus
Booth ............ B17033
EPOCH 6LT Ultra-Portable Flaw Detector

Designed for one-handed operation and rope access applications, Olympus’ EPOCH 6LT portable flaw detector combines the functionality of a powerful ultrasonic instrument with rugged durability for industrial applications.

Lasers

Amada America Inc
Booth ............ A1802
ENSIS 3015 RI

The ENSIS 3015 RI is a 3kW fiber laser cutting system with an innovative rotary index with the power and speed to efficiently transition from flat sheet to tube or pipe cutting. Incorporating fiber laser cutting technology into the machine design helps users process a variety of tubing and pipe with greater speeds compared to a CO2 system.

Dynatect®

AUTOMATED MACHINE SAFETY DOOR

GORTITE® VF
VERTICAL FABRIC ROLL-UP DOOR

Keep Hazardous Operations Separate from People, Equipment, and Materials

· High-Speed Operation
· Designed for 1M+ Cycles
· Simple Installation and Mounting
· Integratable Safety Features
· Fast Quote and Delivery

SEE IT AT FABTECH® - BOOTH A3209

MORE INFO: DYNATECT.COM/AMSD | SALES@DYNATECT.COM | 800-298-2066

VIDEO AT DYNATECT.COM/AMSD
LCG 3015 AJ

The LCG 3015 AJ exhibits 9kW of fiber laser cutting power. This high-capacity fiber laser allows fabricators to process thin-to-thick materials at unprecedented levels of efficiency.

HOSO Metal Co Ltd

Booth ............ B37071
Copper Tungsten Heat Sink

Copper tungsten, the pseudo-alloy, has the advantage of the high thermal conductivity of copper and the stability of tungsten. It is easy to adjust the CTE (coefficient of thermal expansion) by use the different ratio of copper and tungsten.

Jenoptik Automotive North America LLC.

Booth ............ A1039
VOTAN BIM

The JENOPTIK-VOTAN® BIM laser cutting system is ideal for 3D laser cutting of metals and plastics. Innovative robot technology processes complex components — quickly, effectively and precisely.

LaserStar Technologies Corp

Booth ............ A3007
FiberCube Compact Laser Engraving Systems

FiberCube Compact Laser Engraving Systems (3802 Series). Benefits include a space saving footprint and state-of-the-art operating software. Suitable for a wide range of applications. Accessories include coordinated rotary motion devices. Made in USA.

MC Machinery Systems Inc

Booth ............ A2619
Mitsubishi Laser SR-F

Mitsubishi’s latest Fiber machine, the SR-F model is available in 2 and 3kW. This entry level machine offers the superior advantages of a Mitsubishi Laser in an economical package.

MegaFab

Booth ............ A3840
Piranha Laser

Fiber laser for high-quality 2D laser cutting up to 1/2” thick. A complete 5x10 package with shuttle table and dust collector starts at under $200,000.

Messer Cutting Systems

Booth ............ A4860
LaserMat II

CO2 Laser cutting machine with bevel laser cutting.

Modern Manufacturing Technologies Intl

Booth ............ A2867
Dalcos LNX 1000 Coil Fed Laser

The Dalcos LNX1000 Coil Fed Laser is a highly efficient Fiber Laser allowing for continuous processing. The patented Vision system ensures maximum part accuracy and long part processing.

Murata Machinery USA Inc

Booth ............ A4240
LS3015GC Fiber Laser

Muratec’s LS3015GC Fiber Laser family incorporates some of the features from the LS3015LC, while utilizing a new drive system. The LS3015GC family of fiber lasers is available in either 2.5kW, 4.0kW, or 6.0kW.

CS Unitec Inc

Booth ............ B33061
MAB 1300 V Portable Magnetic Drill With Auto-feed

The MAB 1300 V is a strong portable magnetic drill with adjustable automatic feed and reverse. Drill holes up to 5-1/8” diameter with annular cutters. Other capabilities include tapping, reaming and countersinking.
Maintenance & Repair

Dake Corporation
Booth ............ A4492
F-20 Utility Press

20 ton utility floor press with fast 2 speed hand operated pump. A long 8" stroke & heavy steel frame make this a great press for any small shop. Traversing head for off center pressing & removable nosepiece for custom nosepiece install.

Other Machinery/Equipment/Parts/Products

ARC Specialties Inc
Booth .............. B35047
ARC-11S CNC Sand Control Screen Winder

The ARC-11S CNC Sand Screen Winder is a turnkey wire wrap screen system that uses resistance welding to produce over one hundred welds per second.

Material Handling/Marking

Piab Inc
Booth ............. C41730
Friction Suction Cups

Safe handling of oily sheet metal offers the opportunity to increase the number of strokes per minute in stamping, cutting, bending, and punching machines, making for more cost-effective and productive press shops.

piCOMPACT®23 with IO-Link

Input/output technology in Piab’s all-in-one vacuum ejector platform piCOMPACT®23. IO-Link is a generic communication technology that can be used with any type of fieldbus, enabling users to easily link together different systems within a plant.

Chambrelan Industrial Slides Inc.
Booth .............. C40928
Heavy Duty Drawer Slides

Chambrelan heavy duty telescopic slides are available for loads up to 2,500 pounds. Their closed lengths can be as long as 78 inches, with extensions reaching up to 10 foot.

Linear Guide Rails With Wheel Runners

Aside regular ball bearing runners, Chambrelan linear guide rails are available with plastic coated wheel runners which are tolerant to dirt and other contaminants.

ESTA Extraction USA LP
Booth .............. B27090
DUSTOMAT 4 Series

These mobile dust collectors are outstanding for direct extraction for individual or multiple processing machines for many dust types and shavings. The collection of dust can be designed flexible to the customers needs.

INFOG I - Oil Mist Separators

ESTA’s oil mist separators are specifically designed for the metal working industry. They effectively extract oil and emulsion mist that arises when cooling lubricant is used during lathing, milling, drilling or grinding metal.

Hydraulico as
Booth ............. A5669
Upsetting Forging Press

A unique servo-driven concept offering 3 times more output. 35% increased profitability, extreme flexibility to quick change of production or for different applications under maximal accuracy and control.

InfoSight Corp
Booth ............. A3135
LabeLase® 4000 Tag Printer

The LabeLase® 4000 Tag Printer is a high speed desktop metal tag printer producing more tags in less time.

Lillbacka USA
Booth .............. B15013
FP 170i Crimper

A large-format crimper for large industrial hoses and hard to handle fittings that do not need high tonnage. 12.60” crimping at 320 tons.
ESAB’s DMX Automated Plasma Beveller delivers performance improvement through a simple, compact design. DMX uses direct drive motors to reduce complexity, eliminate the need for breakaway crash protection, and deliver responsive, accurate positioning.

Hypertherm Inc
Booth .................. A3525
XPR300™ with X-Definition™ Technology

Hypertherm’s most advanced and productive plasma yet: the XPR300 with X-Definition plasma providing unmatched cut quality on mild steel, stainless steel, and aluminum, plus faster cut speeds, automatic system monitoring, and more.

KNUTH Machine Tools USA Inc
Booth .................. A2874
Nova TS 1275/4.0

Innovative heavy duty shear for industrial production captures the cut material and sends it to the front or back of the machine depending on the length. Practical 50” work length for thicknesses up to 0.16”.

Voortman Corporation
Booth .................. A1861
Voortman V325

The V325 is a robust plate processing machine from Voortman.

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Cincinnati Inc
Booth .................. A4014
CPX-300

Cincinnati introduces its CPX-300 Plasma System.

ESAB Welding & Cutting Products
Booth .................. B17074
DMX Automated Plasma Beveller

The Miniature Inductive Sensor features include: rectangular, height 4.7 mm, active face on, robust metal housing, no NO or NC contact, NPN and PNP output, 2 mm rated sensing range, fully embeddable.

Powerfast Connectivity

Powerfast Connectivity features include overmolded and pre-assembled power connector solutions, metric connectors offer safe disconnect while under load, a reduction in connector assembly and product installation labor, UL approved products with a minimum of IP67 ingress protection.

Amada America Inc
Booth .................. A1802
HG 1003 ARs

An integrated robotic bending system. AMADA’s HG 1003 ARs utilizes the combined forces of an ultra-precise press brake and a multi-axis robot to achieve unmanned bending operations.

LG 1003 ATC

A servo/hydraulic press brake with patented automatic tool changer the HG 1003 ATC is an ideal solution for variable lot sizes and complex tool layouts. This integrated bending system is equipped with AMADA’s patented tool changer that drastically reduces tool loading times to just a few minutes.

WM 1003

The HM 1003 high-precision hydraulic press brake offers an exceptional price/performance ratio. The 110-ton press brake features a hydraulic proportional valve to ensure that parts are produced efficiently and accurately.

Bystronic Inc
Booth .................. A1819
Xpert 80 Press Brake

The Bystronic Xpert 80 mobile press brake opens up a wide spectrum of applications with an increased bending length and press capacity greater than the successfully established Xpert 40.
Steelmax Tools offers a full line of steel fabrication machines and is committed to providing industry leading metal cutting, hole making, weld preparation and welding mechanization solutions to our customers. Each of our products is designed to help our customer be more productive and in turn more profitable and more competitive. Our commitment to our customers does not end there; we continue to learn from them and use that knowledge to develop new and innovative steel fabrication solutions. Visit us at Fabtech to learn how we can help make your fabrication processes more productive and profitable.
Steelmax offers a full line of steel fabrication machines and is committed to providing industry-leading metal cutting, hole making, weld preparation, and welding mechanization solutions to our customers. Each of our products is designed to help our customers be more productive and in turn more profitable and more competitive. Our commitment to our customers does not end there; we continue to learn from them and use that knowledge to develop new and innovative steel fabrication solutions. Visit us at Fabtech to learn how we can help make your fabrication processes more productive and profitable.

www.steelmax.com

Visit us at FABTECH Booth B29066 to learn more about these new and unique solutions.

877-833-5629

The Latest Innovations From

**The new PB5 Pipe Beveling Machine from Steelmax**

- Improve pre-weld fit up
- Minimize weld defects
- Create precise bevel geometries

**API Tank Welding with the Steelmax Li’l Runner Welding Carriage & Flexible Guide Rail System**

- Increase arc on time
- Improve weld quality
- Minimize weld defects

**The new BM7 Multipurpose Compact, Portable Beveling Tool**

- Bevel, countersink and radius edges
- Significantly faster than grinding
- Carbide inserts produce no hazardous dust

**The new D1 Ultra Low Profile Electric Drill for Restricted Spaces**

- Ultra-Low-Profile Mag Drill
- Accepts both HSS & TCT annular cutters
- 1-7/16" max diameter
- 1-3/16" max depth of cut
Punching

Amada America Inc
Booth ............ A1802
LC 2515 C1 AJ

The LC 2515 C1 AJ combines the forces of a 22-ton turret punch press with the flexibility of a 2kW fiber laser for high-speed productivity. Processes such as tapping, forming, and laser cutting can all be performed on this innovative system to maximize part accuracy and machine productivity.

Murata Machinery USA Inc
Booth ............ A4240
FS3015 Loader

Perfected by decades of automation experience, the Muratec FS3015 loader and optional tower system are designed to deliver a flexible solution for reliable unattended full sheet operation.

M3058TG

Muratec’s M3058TG provides a blend of speed and power with its heavy duty design and 33-ton servo driven ram. A large number of tools in a high capacity turret and indexable multi-tools enhance production flexibility.

Trilogy Machinery Inc
Booth ............ A4848
SUNRISE ALS - Angle Line System

Sunrise Automatic Angle Line System - Processing angle and flat bar from 2” - 6” including nesting, part marking and more.

TRUMPF Inc
Booth ............ A2601
TruMatic 1000 Fiber

The TruMatic 1000 fiber is the first entry-level punch laser combination machine from TRUMPF with a solid-state laser. It is revolutionary in its modular design that offers users the ability to start as a punching machine and add a laser as business grows. New this year is the availability of a 60” x 120” working area.

Resistance Welding

Dengensha America Corp
Booth ............ B27049
Flexwave Capacitor Discharge Welder

Dengensha America’s design integrates the capacitor bank into the main unit, creating a shorter and more compact capacitor discharge welder with a smaller footprint. Manufacturers get breakthrough resistance welding technology, using less floor space.
TECNA press type resistance welders with MFDC technology excel in spot and projection welding applications. The welder’s versatile TE700 control has six working modes available, including automatic compensation for tip wear.

T. J. Snow Nut Verification System

Using a simple single-button teach process, T. J. Snow’s Nut Verification System (NVS) for resistance welding nuts insures proper orientation and projection collapse.

EN6001 with Retro-Fit Upgrade Option

The EN6001 control offers an updated LCD interface along with constant current, current monitoring, external schedule select and improved electrode management functions and the option to keep an existing EN1000/1001 enclosure.

Robotics

Abicor Binzel

The simple, robust, and compact CAT3 collision mount provides for excellent protection against robot crash. With the switch integrated directly into the housing, the resetting accuracy is extremely high, resulting in minimal robot cell downtime.

ABIROB Cyclone (Robotic MIG Torch)

A low cost system for simple GMAW applications, a solution for low volume/high mix fabrication shops.

ATI Industrial Automation

The robotic torch for a new generation of welding automation, ABIROB Cyclone offers endless 360-degree neck rotation in a powerful air-cooled design that cuts cycle time and extends cable life.

ATI Industry Automation introduces its low-cost Force/Torque Sensor for robotic assembly, grinding, and polishing applications.

Collaborative Robot Welding Package

A fully decentralized generic vacuum generator design with compressed air ports at the side and vacuum port underneath, piSTAMP will fit perfectly in standard press shop tooling systems. Ultra lightweight.
Dynatect Manufacturing Inc
Booth ........... A3209

Gortite® VF Automated Machine Safety Door

Dynatect's Gortite® VF Door is in a line of automated machine safety doors that responds to the automation industry's need for machine guarding doors to keep hazardous processes like robotic welding separate from people, equipment, and materials.

Keller USA Inc
Booth ........... A3097

HydronPlus

Keller introduces its energy-efficient wet scrubber geared towards processes creating combustible, explosive or adhesive dust. It combines wet scrubber advantages with high separation efficiencies of dry filtration, enabling clean air recirculation.

Lasermet Inc
Booth ........... B33101

Laser Castle G3 "Integrator"

The Integrator laser safety cabin has a touch-screen interlock controller, active guarding for near-instant protection, a range of auto doors – including double, rotating and guillotine doors – all laser interlocked and fume extraction systems.

ByCockpit

ByCockpit is an app developed by Bystronic that analyses and visualizes the process data associated with sheet metal production for process planning and continuous improvements.

Lantek Sheet Metal Solutions
Booth ........... A2906

Metal Intelligence Software

A modular suite of tools for Digital Strategy Development and Deployment featuring the core technologies developed by Lantek over 30 years including CAD/CAM Nesting, MES, ERP and Business Intelligence solutions.

Lillbacka USA
Booth ........... B15013

Finn-Power Intelligent Crimper Control (ICC)

The Finn-Power Intelligent Crimper Control (ICC) has an industrial-grade touch screen that is engineered for tough conditions. Visual symbols on the control guide assist the operator to complete the task with ease and comfort.
**NEW PRODUCTS**

Register at fabtechexpo.com

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**Logopress3/Accurate Die Design Software Inc.**

Booth ........................ A5316

Logopress3 Die Simulation/Die Kinematics

Logopress3, a Gold Certified Partner product for SolidWorks, has greatly improved the die simulation (die kinematics) and dynamic interference detection solution in the die design software.

---

**MIE Solutions Inc**

Booth ........................ C40627

MIE CAD Converter

MIE CAD Converter for SolidWorks converts 3D model files and imports all purchased and manufactured components into MIE Trak Pro.

MIE Trak Pro ERP

Production software for manufacturers, job shops, and custom fabricators. Encompassing everything from quoting to accounting and everything in between.

---

**ProMANAGE Smart Manufacturing Solutions**

Booth ........................ C41639

ProMANAGE Manufacturing Data Analytics

ProMANAGE’s Manufacturing Analytics is an extensive tool for manufacturers to visualize and emphasize the root causes of problems to enable solutions to them. Hence ProMANAGE Manufacturing Analytics improves effectiveness in manufacturing operations.

---

**The Aquila Group Inc**

Booth ........................ A3205

Internet of Things (I.o.t) Support

Fully supports a variety of devices and sensors that are either OPC complaint or devices that can be wired directly into The Aquila Groups, centralized Node that supports both Analog and Digital devices.

---

**Kepware System Integrator**

The Aquila Group, Inc. partners with Kepware technologies to support any device manufacturing organizations have.

---

**Node-Red Support**

Support for the Node-Red protocol that allow advance functions needed to fully support both Industry 4.0 as well as other elements of IoT.

---

**TURCK Inc**

Booth ........................ A5012

TBIP CIP Hybrid Safety Block I/O

The TBIP CIP Hybrid Safety Block I/O features include: first block I/O to combine standard and safety inputs/outputs in a single device. CIP / EtherNet/IP safety compatible. Two safety inputs with two additional safety channels. rated for IP65/67/69K.

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**The Aquila Group Inc**

Booth ........................ A3205

**Internet of Things (I.o.t) Support**

Fully supports a variety of devices and sensors that are either OPC complaint or devices that can be wired directly into The Aquila Groups, centralized Node that supports both Analog and Digital devices.

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**ProMANAGE Smart Manufacturing Solutions**

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---

**New Slide Modules** for Large Diameter Applications expand the capabilities of our LDSF Large Diameter Split Frame machining system:

- 60in-120in (DN1500-3000)
- Parting, Beveling, Counterboring, & Flange Facing
- Onsite machining of heavy wall pipe & vessels up to 6in (152mm) wall thickness

See these modules & more at E.H. Wachs

Booth B17037

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**CALL 1.800.323.8185**

**OR VISIT EHWACHS.COM**

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**THIS IS HUGE**

**GREATLY EXPANDED CAPABILITY NOW MACHINES UP TO 6in WALL THICKNESS**

**NEW SLIDE MODULES** for Large Diameter Applications expand the capabilities of our LDSF Large Diameter Split Frame machining system:

- 60in-120in (DN1500-3000)
- Parting, Beveling, Counterboring, & Flange Facing
- Onsite machining of heavy wall pipe & vessels up to 6in (152mm) wall thickness

See these modules & more at E.H. Wachs

Booth B17037

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**RENT TODAY!**
Software & Machine Controls

Wintriss Controls Group LLC
Booth ............ A5437
SmartPAC PRO

Wintriss’ flagship press automation controller, the SmartPAC PRO includes all features of the original SmartPAC, along with a vivid touch screen, USB port, a mobile app for remote access, unlimited job storage, and seamless integration with Wonderware.

Tube & Pipe Fabricating or Welding

Angle-Rite® Clamping System
Booth ............ B37070
Angle-Rite® Clamping System

Angle-Rite®, a welding clamp for tube and pipe joints controls distortion. Users can set a desired angle and lock it in place. Once set, the locked-in angle is transferable between cutting attachments, and other positions.

B&B Pipe & Industrial Tool
Booth ............ B29074
Mega Pipe Rollers, Jacks and Horses

The latest in servo technology, featuring a production line anchored by a Stamtec Model i52-176, two-point 176 ton straight side press.

Thermal Spraying

HOSO Metal Co Ltd
Booth ............ B37071
Copper/Tungsten Thermal Spray Electrode

Thermal spray anode and cathode electrode made by back casting copper on the tungsten alloy.

Stamtec Inc
Booth ............ A5431
iS2-176

The latest in servo technology, featuring a production line anchored by a Stamtec Model i52-176, two-point 176 ton straight side press.

COLE-TUVE Inc
Booth ............ A3875
Upgraded NC Control

COLE-TUVE’s Sahiner Metal Makina 4-roll plate bending rolls can now be equipped with an advantageous Upgraded NC Control, which means it’s not always necessary to purchase the more expensive CNC Control. Elliptical shapes can be rolled with the Upgraded NC because it comes with additional pumps and software that keep the rolls moving throughout the bending process, thereby eliminating flat spots.

Tri Tool Inc
Booth ............ B33013
TRIMAX Machining System

The patented design of the TRIMAX® makes it the safest clamshell lathe on the market today while delivering maximum performance and precision. It provides the ultimate speed, strength, and stability for all demanding machining applications.

Innovative Tube Equipment Corp
Booth ............ B11029
CNC Tube Bending, Punching and Forming Work Cell

This work cell combines the use of a Starbend CNC bending machine to bend a complex tubular handle and an MTS punching and forming bench that processes all of the secondary operations on the part post bending with a single operator.

Tubing & Pipe Welding

Angle-Rite®, a welding clamp for tube and pipe joints controls distortion. Users can set a desired angle and lock it in place. Once set, the locked-in angle is transferable between cutting attachments, and other positions.

B&B Pipe & Industrial Tool
Booth ............ B29074
Mega Pipe Rollers, Jacks and Horses

Pipe fabrication products designed for high capacity industrial use. Designed for years of heavy duty use.

Carell Corporation
Booth ............ A4873
D Series 5” Schedule 40 Pipe Bender

Carell introduces the D Series Rotary Compression Pipe Benders with capacity to bend up to 5” Schedule 40 Pipe as well as structural profiles.

Versatile & Affordable Electric CNC Tube Bender

An extremely versatile, electric - hybrid, high quality yet affordable CNC bending machine.

TRUMPF Inc
Booth ............ A2601
TruLaser Tube 5000 Fiber

The TruLaser Tube 5000 fiber exploits the strengths of solid-state laser technology better than any other laser tube cutting machine on the market. Innovative machine functions such as RapidCut were designed to take advantage of the full potential of the solid-state laser, outperforming traditional tube cutting by up to 15 percent. An automatic clamping system adapts quickly to any shape and never needs adjustment, minimizing downtime and maximizing cut quality.
ALL-NEW LOW ENERGY WELDING

- No Heat Affected Zone
- Minimal Weld Stresses/Distortion
- Joining of Dissimilar Materials
- Robotic and Automated Applications
- Portable and Easy to Use
- Patents-Pending Power Supplies, Applicators and Glove Boxes

NUVOCAP® ALL-NEW RESISTANCE WELDING ELECTRODES

- Longer Life
- Improved Water Cooling
- Patent-Pending Design
- Can be Combined with our Patented TiC Coating for Optimum Welding Performance

Booth B37008

Huys Industries Limited 175 Toryork Drive, Unit 35, Weston Ontario Canada, M9L 1X9
Winton Machine Company
Booth ............ B15006
Winton Model 2

The Winton Model 2 tube bender is built to withstand the rigors bending heavy duty pipe fittings and provides the technology to make it highly efficient.

DH25H - Double Hit Ram End Former

Winton’s DH25H is a versatile solution for single or double hit end forming with efficient quick change tooling. The 37 degree flaring tool set takes 3 minutes to change out.

Hopper Loader

The Winton Hopper Loader improves any manufacturing process or assembly that requires high-speed tube material loading.

Tube & Pipe Producing

ASMAG USA Inc
Booth ............ B10022

Single Shaft Drive Solutions

Tube mill single shaft drive technology: one single motor and gearbox for each individual roll.

Tailor Drawn Tubes

Tubes with variable wall thickness are a fundamental element of modern lightweight concepts in state-of-the-art tube production. ASMAG designs include innovative drawing lines for tailor drawn tubes.

Universal Tube & Rollform Equipment Corp
Booth ............ B10057

Wall Tube Mill Line

3.125” OD x .134” Wall Tube Mill Line

Rafted Tube Mill Line

3” OD x .166” Rafted Tube Mill Line

Smart Fastening Solutions That Save Time

CD Weld Pins

Fasten Insulation to pre-painted metal without messy adhesives or marring reverse side.

MetalTacks®

Quickly and permanently attach name plates & component brackets to ferrous and non ferrous metals.

TackMounts®

Easily secure all forms of cables, wiring and tubing with rotatable Tack Mount Brackets.

Visit us at FABTECH Booth # C41604
See demonstration videos at Gripnail.com or call 401 216 7900
### Waterjet

**KMT Waterjet Systems Inc**

**Booth** ............ **A3884**

**PRO-III**

PRO-III 125hp/60hp 90,000psi top-works have a patented seal design canister guarantees seal hrs., increases productivity & higher cut stream velocity reduces abrasive usage/cost. The 125hp with 2 heads/.016 orifices, cuts 2X faster than 60,000psi/50hp.

### Welding Consumables

**HOSO Metal Co Ltd**

**Booth** ............ **B37071**

**Stud Nut Electrode**

Copper tungsten (10W3) tips with Cu-Cr12 shank provide higher hardness and better electrical conductivity.

**Weiler Abrasives Group**

**Booth** ............ **B23058**

**Tiger Aluminum Cutting, Grinding, & Combo Wheels**

Tiger Aluminum wheels are designed for high performance cutting and grinding on aluminum. These wheels blend abrasive grains with Weiler’s non-loading formula, resulting in a fast and consistent cut rate on aluminum.

**Tiger Ceramic Cutting, Grinding, & Combo Wheels**

Self-sharpening and cool cutting, ceramic grain removes material effortlessly while a hard bond keeps working longer.

**Roughneck Max Stringer Bead Wheel**

These 4-inch carbon steel and stainless steel brushes deliver 40 percent more cleaning power and require less pressure to clean with, helping to improve productivity while reducing operator fatigue and long wire breakage.

**Tiger Bobcat Mini 2 & 3 Inch Flap Discs**

Weiler offers a threaded button mount in addition to an arbor mount for greater versatility to fit the most popular hub pad styles. These discs are designed for smooth grinding and enhanced conformability in tight areas.

**Tiger & Wolverine Resin Fiber Discs**

Five RFD products from Weiler — Tiger Ceramic, Zirc and Aluminum, and Wolverine Zirc and Aluminum Oxide — designed to provide an aggressive cut rate and smooth finish to get the toughest jobs done right and done fast.

---

### THE MOST POWERFUL, MOST PORTABLE, BATTERY-POWERED WELDER AVAILABLE.

**See a Demo at FABTECH - Booth B21083**

**The Tactical Welder** portable welding system is a completely self-contained solution. This system makes welding possible in situations that would otherwise be extremely difficult, time consuming or altogether impossible.

+ Completely battery-powered system – no long power cords, heavy cables or generators necessary.
+ Ultimate portability – all components are designed to be stored and transported in the included backpack.

Contact us for more information · (904) 292-1141 · tacticalwelder.com
Welding Machines/Equipment

**CMP Automation**

Booth ............ B18083

Welding Automation

CMP Automation designs and manufactures fully automated custom welding systems and robotic welding solutions. We deliver high quality welding solutions for a broad range of applications.

**Imperial Systems Inc**

Booth ............ B15061

Modular Push-Pull Dust Collection System

Imperial Systems Inc designs and manufactures fully automated custom welding systems and robotic welding solutions. We deliver high quality welding solutions for a broad range of applications.

**Master Magnetics**

Booth ............ A3188

On/Off Magnetic Welding Squares

On/Off magnetic welding squares from Master Magnetics offer welders the ability to decrease their prep time without sacrificing holding accuracy and reliability. Powerful neodymium magnets hold on flat or round stock, 3 sizes available.

**Miller Electric Mfg Co**

Booth ............ B19037, B23034

Expanded ArcReach® Technology Offering

With ArcReach technology, operators can make parameter changes at the weld joint using the wire feeder or remote — without a control cord — resulting in less walking and more welding, as well as improved productivity, safety and quality.

---

**RHINO CART™**

Mobile Fixturing Station

Charge right through your next fab project!

It’s a jungle out there . . . be ready to handle any build, repair, or assembly job with the New Rhino Cart® Mobile Fixturing Station. Quickly clamp and fixture at any point on the surface, store all your tools, and charge right through your projects!

See our Intro Offers at: Rhino-Cart.com/promo

sales@stronghandtools.com | www.rhino-cart.com

Visit us at FABTECH
Booth# B35010

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The advantages of TRIMAX are crystal clear.

• The industry’s first “Zero Pinch Point” OD mounted split-frame pipe lathe
• Revolutionary, patented high-speed ball bearing system
• Faster cutting speed, better surface finishes, and longer bit life
• Rigid, high-stability frame for unlimited machining applications and accessories

With productivity, reliability and system expandability like this, TRIMAX will save you a fortune!

Call to see the future of portable machining.
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Introducing the
TRIMAX
Machining System

MAX CUTTING SPEED
MAX PRECISION
MAX SAFETY
Weld Engineering Co
Booth ............ B21025
HPFR-3000-H300/H300

The HPFR-3000-H300/H300 Sub-Arc Pressure feed and recover system uses a low profile 300lb tank. Height is reduced for ease of accessibility for loading flux. Product is shown with FTV-3000 auto flux transfer valve and low level sensor.

ADVANCED WELDING LATHE

MAIN FEATURES:
Precision 100A Power supply integrated with azis control AVA control, Synchronized Pulsation of Current and Wire Feed 
Integrated PLC with Welding Power Supply

Axis Controls:  
X-Axis-Longitudinal (LEFT/RIGHT) 
Y-Axis-Torch IN/OUT 
Z-Axis-UP/DOWN AVC and GAP control 
Rotary-Axis-Part Rotation (with encoder position)

Rotation segment control by encoder feedback

Program Screens:  
Main screen-program status 
Segment program screen 
Initial and Final slopes preset screen

Designed and manufactured by: 
WELDTEX INC  
23823 W Andrew Rd., Plainfield, IL 60585 info@weldtexusa.com / weldtexusa.com

FABTECH® 2017 NEW PRODUCT PREVIEW

TRUMPF Inc
Booth ............ A2601
TruLaser Weld 5000

The TruLaser Weld 5000 revolutionizes laser welding. FusionLine perfectly co-ordinates the laser, beam guidance and optics to allow for welding across gaps that typically are too large for laser welding. Components may now be laser welded without redesign and with significantly higher speeds and quality than with conventional welding. FusionLine may be combined with heat conduction welding and deep welding, all on that same part and all with the same setup.

FABTECH BISTRO
Reserve a seat at the FABTECH Bistro and you will always have a convenient place to eat, meet and network.
The Bistro offers assorted menu options including fresh and healthy lunch options, international cuisine and regional favorites—all at a reasonable price.
Pre-purchase your individual lunch tickets to avoid the lines. Find the daily menu, pricing and order tickets at fabtechbistro.com.

Visit us at Booth B32091
SPECIAL EVENTS

MONDAY, NOVEMBER 6

KEYNOTE PRESENTATION

FABX TECH TALKS

8:45 – 10:00 AM

Come hear how these leaders are driving innovation to take their businesses to the next level.

Participants Include:

Jacques Panis
President, Shinola

Karen Kerr
Executive Managing Director, GE Ventures

Adam Genei
Founder, Mobsteel

Albert Paley
Sculpture Artist, Paley Studios

Michael Walton
Industry Solution Executive (Manufacturing Industry), Microsoft

Jesse James
West Coast Choppers, Custom Car and Bike Builder

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 Theater presentations and much more.

OPENING CEREMONY

10:00 AM

See the unveiling of the Paley/James metal sculptures.

FEATURED PRESENTATIONS:

ADDITIVE AND CONVENTIONAL MANUFACTURING, A SMART COMBINATION

12:30 – 1:30 PM

Sponsored By: PLEX

ADVANCED MANUFACTURING FOR THE NEXT INDUSTRIAL EVOLUTION

12:30 – 1:30 PM

Sponsored By: PLEX

HYBRID ADDITIVE MANUFACTURING: THE FUTURE OF METAL PARTS PRODUCTION?

2:00 – 3:00 PM

All events are free and open to all attendees unless otherwise noted.
TUESDAY, NOVEMBER 7

KEYNOTE PRESENTATION

"FAST N’ LOUD" WITH RICHARD RAWLINGS
8:30 – 9:30 AM
Co-host of Discovery Channel’s popular “Fast N’ Loud” series and founder of Gas Monkey Garage, a world-renowned hot rod shop.

FEATURED PRESENTATIONS:
EVOLUTION OF ADDITIVE MANUFACTURING AND WHAT IT MEANS FOR THE FABRICATION INDUSTRY
10:30 – 11:30 AM

3D PRINTING AT A CROSSROADS: HOW METAL PRINTING AT SCALE WILL CHANGE THE MANUFACTURING LANDSCAPE OVER THE NEXT 5 YEARS
11:30 - 12:00 PM

DESIGNING FOR 3D PRINTING & THE COMPLEXITY PARADOX
12:00 - 12:30 PM

STATE OF THE INDUSTRY
12:30 - 1:30 PM
Hear our experts share how important the future of the manufacturing industry is to the U.S. economy.

EFFECTIVELY INCORPORATING ADDITIVE MANUFACTURING INTO YOUR BUSINESS
2:00 – 3:00 PM

NETWORKING EVENT:
INDUSTRY NIGHT AT SOLDIER FIELD, HOME OF THE CHICAGO BEARS
5:30 – 7:30 PM
Enjoy an evening of fun, food, drinks and networking with exclusive access to Soldier Field and a meet-and-greet with retired Chicago Bears Hall of Famer Dan "Danimal" Hampton. Advance ticket price: $50 / Industry Night VIP Experience $75
Sponsored by: UPG

WEDNESDAY, NOVEMBER 8

KEYNOTE PRESENTATION

INSPIRING CREATIVITY IN THE WORKPLACE
8:30 – 9:30 AM
Matthew Luhn, Original Storyteller, Pixar

FEATURED PRESENTATIONS:
ACCELERATING INNOVATION IN 3D PRINTING, PRACTICAL TOOLS YOU CAN APPLY TODAY
10:00 – 11:00 AM

INNOVATIVE APPROACHES FOR WORKFORCE DEVELOPMENT & RECRUITING TALENT
12:30 – 1:30 PM
Sponsored by: KELLYOCG

MONDAY, NOVEMBER 6 – WEDNESDAY, NOVEMBER 8

PROFESSIONAL WELDING COMPETITION DURING SHOW HOURS
Don’t miss the chance to cheer on competitors as they demonstrate their skills to earn the title of “Best Welder in America.” Professional welders can sign up onsite to compete.
## MONDAY, NOVEMBER 6

### SCHEDULE-AT-A-GLANCE

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<td>W27: Session 1: Additive Manufacturing</td>
<td>W33: National Center for Welding Education and Training, Weld-Ed</td>
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<td>Session 1: Modeling 1</td>
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<td>Session 3: Friction Stir and Solid State Welding</td>
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<td>W10: D1.1 - Structural Steel Code Clinic - 2015</td>
<td>W35: AWS Prayer Breakfast</td>
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<td>W25: Thermal Spray Coatings – FREE</td>
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*Detailed session descriptions, speakers, pricing, room locations and more can be found at fabtechexpo.com/edu.*

- Basic
- Intermediate
- Advanced
# Tuesday, November 7

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<td>W12: Crash Course of Welding Inspection Technology Seminar (WIT) 8:30 AM – 4:30 PM</td>
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<td>W13: The Why and How of Welding Procedure Specifications - Beginner 8:00 AM – 12:00 PM</td>
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<td>W14: The Why and How of Welding Procedure Specifications - Advanced 1:00 PM – 5:00 PM</td>
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<td>W15: The Why and How of Welding Procedure Specifications - Both 8:00 AM – 5:00 PM</td>
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<td>W16: Applications of Stainless Steel Welding - Day 1 8:30 AM – 4:30 PM</td>
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<td>W17: ASME Section IX, B31.1 &amp; B31.3 Code Clinic - Day 1 8:30 AM – 4:30 PM</td>
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<td>W24: Tubular Structures Conference 8:00 AM – 3:00 PM</td>
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<td><strong>RWMA SCHOOL</strong></td>
<td>W26: RWMA Resistance Welding School - Day 1 8:00 AM – 5:00 PM</td>
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<td>W28: Session 4: Arc Welding 8:00 AM – 12:00 PM</td>
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<td>Session 5: Welding Metallurgy &amp; Weldability 8:00 AM – 12:00 PM</td>
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<td>Session 6: Honorary Symposium for Dr. S. David and Prof. T. DebRoy - Joint Session A 8:00 AM – 12:00 PM</td>
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<td>Session 7: Industrial Technologies 2:00 PM – 5:00 PM</td>
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<td>Session 8: Honorary Symposium for Dr. S. David - Session B 2:00 PM – 5:00 PM</td>
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<td>Session 9: Honorary Symposium for Prof. T. DebRoy - Session B 2:00 PM – 5:00 PM</td>
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<td><strong>EDUCATIONAL SESSIONS</strong></td>
<td>W34: AWS Education Sessions 8:30 AM – 4:30 PM</td>
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<td><strong>SPECIAL PROGRAMS</strong></td>
<td>W36: AWS Awards Luncheon 12:00 PM – 2:00 PM</td>
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Detailed session descriptions, speakers, pricing, room locations and more can be found at fabtechexpo.com/edu.

- = Basic  
- = Intermediate  
- = Advanced
## SCHEDULE-AT-A-GLANCE

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<thead>
<tr>
<th>Technology</th>
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<tr>
<td>3D/ADDITIVE MANUFACTURING</td>
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<td>F70: NEW 3D Additive for Metals, Tools and Castings</td>
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<td>F80: NEW 3D Additive Applications for Fabricators</td>
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<td>AUTOMATION/SMART MFG</td>
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<td>F77: NEW Robotic Joining Cells and Mass Production</td>
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<td>F87: NEW Smart Manufacturing Execution System and Continuous Improvement Solutions</td>
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<td>F97: NEW Agile Design and Synchronized Manufacturing For Real Time Decision-Making</td>
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<td>CUTTING</td>
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<td>F71: NEW New Technology in Plasma Cutting for Fabricators</td>
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<td>F81: NEW Advanced Cutting Tools, Applications and Software for Productivity</td>
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<td>FINISHING</td>
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<td>C70: NEW Managing Perceptions for Your Finishing Business</td>
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<td>C80: NEW Achieving Consistent Quality Finishes</td>
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<td>C90: Efficient Curing with Infrared</td>
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<td>C71: NEW Mastering a Batch Finishing Operation</td>
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<td>C81: NEW See It Touch It Fix It: Identifying and Solving Finishing Defects</td>
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<td>C91: Protecting Your Most Valuable Asset: Your Employees</td>
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<td>C72: NEW Advancements in Ambient Pretreatment</td>
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<td>C82: We've Got the Cure</td>
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<td>FORMING &amp; FABRICATING</td>
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<td>F78: NEW Tube &amp; Pipe Bending 101</td>
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<td>F88: Roll Form Tooling Installation, Troubleshooting and Lubricants</td>
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<td>F98: Tube Laser Processing 101</td>
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<td>F89: NEW Best Practices: Machine Tool Field &amp; Installation Service Technician Panel</td>
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<td>F99: Effective Safeguarding Risk Assessment</td>
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<td>JOB SHOP</td>
<td>F76: NEW Configurable ERP for Your Job Shop Future</td>
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<td>LASERS</td>
<td>F72: NEW Fiber Laser Technology &amp; Advancements</td>
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<td>F82: NEW Laser Joining Advancements</td>
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<td>F74: NEW Lean Principle: Standardize Work - The Basis for Lean</td>
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<td>F84: Lean Tools: SS Workplace Organization and Standardization</td>
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<td>F92: NEW The Evolving Technology of Powder Coating</td>
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<td>F94: NEW Lean Principle: Hoshin Kanri - How to Achieve the Future You See</td>
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<td>LEAN</td>
<td>F75: NEW Innovation, The Art of Being Wrong</td>
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<td>MANAGEMENT</td>
<td>F85: NEW Succession and Exit Planning for the Next Generation of Metal Fabricators</td>
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<td>STAMPING</td>
<td>S70: NEW Metal Stamping Fundamentals</td>
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<td>S80: NEW Manufacturing ROI &amp; Tax Credits</td>
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<td>S81: NEW Stamping, Assembly &amp; Error-Proofing</td>
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<td>S90: NEW Understanding Metal Stamping Presses</td>
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<td>S91: NEW Advance Forming Technologies</td>
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<td>STRUCTURAL STEEL/PLATE</td>
<td>F500: NEW Steel Beam Assembly Technology</td>
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<td>WORKFORCE DEVELOPMENT</td>
<td>F73: NEW Attract Develop and Build a High Performance Millennial Team</td>
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<td>F83: NEW Six Keys to Team Leadership and Effective Workplace Teams</td>
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<td>F93: NEW Communicate, Build Accountability and Conduct Meaningful Evaluations in Your Organization</td>
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<td>W16: Applications of Stainless Steel Welding - Day 2</td>
<td>8:30 AM</td>
<td>4:30 PM</td>
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<td>W17: ASME Section IX, B31.1 &amp; B31.3 Code Clinic - Day 2</td>
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<td>W18: Ethics Seminar for Certified Welding Inspectors - Part A</td>
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<td>W19: What to Expect as a New Certified Welding Inspector - Part A</td>
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<td>W20: Ethics Seminar for Certified Welding Inspectors &amp; What to Expect as a New Certified Welding Inspector (Part A &amp; B)</td>
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<td>W21: The Visual Inspection Workshop</td>
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<td>W22: Fundamentals of Liquid Penetrant Testing for CWI’s and Quality Assurance Personnel</td>
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<td>W29: Session 10: Plenary Session</td>
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<td>Session 11: Laser Welding/Additive Manufacturing</td>
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<td>Session 12: Honorary Symposium for Dr. S. David - Session C</td>
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<td>Session 13: Honorary Symposium for Prof. T. DebRoy - Session C</td>
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<td>Session 14: Overlay and Cladding</td>
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<td>Session 15: Dissimilar Joining</td>
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<tr>
<td>Session 16: Honorary Symposium for Dr. S. David and Prof. T. DebRoy - Joint Session D</td>
<td>2:00 PM</td>
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Register at fabtechexpo.com

Detailed session descriptions, speakers, pricing, room locations and more can be found at fabtechexpo.com/edu.
### THURSDAY, NOVEMBER 8

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<td>F107: NEW</td>
<td>Standards and Air Quality for Risk Assessment in Your Automation</td>
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<td>C100: NEW</td>
<td>The ULTIMATE Powder Coating</td>
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<td>C101: Electrocoating Equipment Considerations</td>
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<td>C110: NEW</td>
<td>Got Corrosion?</td>
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<td>The Evolution of Architectural Coatings</td>
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<td>F108: NEW</td>
<td>Tube &amp; Pipe Forming</td>
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<td>F109: Roll Forming In-Line Punching, Cut-off Dies and Press Tonnage</td>
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<td>F106: Sales 101 For The Fabrication Industry</td>
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<td>F116: Sustainable Design and Solutions for the Job Shop</td>
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<td>F104: Lean Tools: Preventative Maintenance and Sustainable Techniques &amp; Life Cycle Assessments</td>
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<td>F105: NEW</td>
<td>Increasing Organizational Readiness and Agility in Your Company</td>
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<td>F115: Marketing 101 for Fabricators</td>
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<td>F125: Grow Your Business: For Keeps or For Sale!</td>
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<td>S100: NEW</td>
<td>Advancements in Press Technology</td>
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<td>Optimizing Sensor and Lubricant Applications</td>
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<td>S110: NEW</td>
<td>Press Drive Technology</td>
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<td>S111: NEW</td>
<td>Simulation &amp; Process Design Improvement</td>
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<td>F600: NEW</td>
<td>Plate Rolling of Structural Steel</td>
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<td>F103: NEW</td>
<td>6 Steps to Hiring and The New Gig Economy</td>
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<td>SEMINARS</td>
<td>W23: Fundamentals of Radiographic Inspection for CWI’s and Quality Assurance Personnel</td>
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<td>PROFESSIONAL PROGRAM</td>
<td>W30: Session 17: Sensing and Control</td>
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<td>Session 18: Modeling II</td>
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<td>Session 19: Testing and Characterization</td>
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<tr>
<td>SPECIAL PROGRAMS</td>
<td>AWS Certification Information Session: Move to Computer-based Testing (CBT) and Other Topics - FREE</td>
<td>9:00 AM</td>
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### EXPERIENCE LEVELS

Use this key along with the Schedule-at-a-Glance to find the education 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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