

NEW PRODUCT PREVIEW

A SAMPLE OF NEW PRODUCTS SET TO DEBUT AT FABTECH 2017

FABTECH 2017

CHICAGO
NOV 6 – 9

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Booth A1802

FABTECH

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 M5**
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 de-
mands of this new era, AMADA's Manufacturing
Facility in Brea, California, is building industry-leading
automated solutions that set the standards for perfor-
mance and reliability.

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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.

REGISTER TO ATTEND TODAY AT FABTECHEXPO.COM

► LEARN + PROGRESS

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► MEET + ADVANCE

Happy hours, Industry Night and other special events allow attendees to network with peers, learn from top industry experts, exchange best practices and explore the latest technological industry advancements.

► EXPLORE + GROW

Want to make a real difference in your business, your product and your bottom line? Bring your entire team to FABTECH and uncover more cost-saving ideas and strategies that will differentiate you from your competition.

► FABTECH 2017 FEATURES

OVER 1,700 EXHIBITORS

KEYNOTE SPEAKERS

150+ EDUCATIONAL PROGRAMS

PRODUCT DEMONSTRATIONS

500+ NEW PRODUCTS

EXPERT-LED DISCUSSIONS

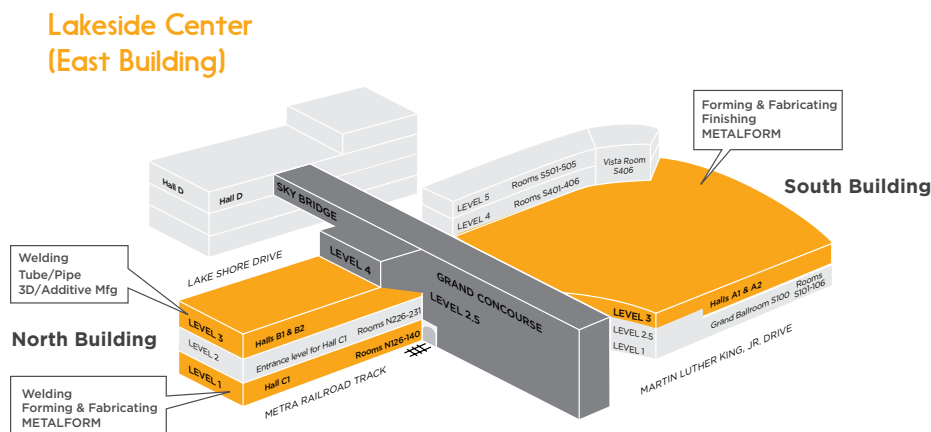


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START PLANNING TODAY!



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.

LOCATION

McCORMICK PLACE
2301 S. KING DRIVE
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

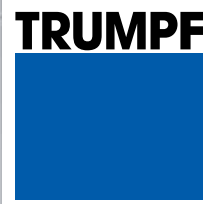


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DOWNLOAD THE FABTECH MOBILE APP

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

► EXHIBITOR LIST (as of 8/23/17)

3D/ADDITIVE MANUFACTURING

3D Metal Printing Magazine -
A PMA Publication
3D Systems
Bodycote Thermal Processing
CIDEAS Inc
Cincinnati Inc
Fabrisonic LLC
Formlabs
GPI Prototype & Manufacturing
Services
MakerGear
Markforged
Met-L-Flu Inc
Oak Ridge National Laboratory
OR Lasertechnology Inc
Proto Labs Inc
Raise3d Inc.
Renishaw Inc
Smart Manufacturing
Magazine
solidThinking Inc
Stacker LLC
TRUMPF Inc
Ultimaker
Wisconsin Precision Casting
Corp
Xometry
ZEISS Industrial Metrology

FINISHING & COATING

Accudraft Paint Booths
Acme Finishing Co
ACT Dust Collectors
ACT Test Panels LLC
ADF Systems Ltd
Aesthetic Finishers Inc
AFC Finishing Systems
AkzoNobel Powder Coatings
Alconox
Alliance Manufacturing Inc
American Fabric Filter Co
American Grinders Inc
American Industrial Sales LLC
Ameribica Inc
AMOVA SARL
APEL International
Argon Masking Corp
Assured Testing Services
Axalta Coating Systems
AZZ Metal Coatings
B L Downey Company LLC
Baoli Aati New Metal Co Ltd
Baril Coatings USA
BASF Corp
Bayco / Guspro Inc
BCI Surface Technologies Bulk
Chemicals Inc
BEKO Technologies
Bex Spray Nozzles
Blast Cleaning Technologies
BlastOne
Bonding Solutions
Brush Research
Manufacturing Co
Burleigh Industries
Caldan Conveyor A/S
Calvary Industries Inc
Caplugs
Carbit Paint Co
Cardinal Paint and Powder
Cardinal Parts & Equipment LLC
Carlisle Fluid Technologies
Castrol
Cataforesis SA de CV
Catalytic Industrial Systems
CFCM Canadian Finishing &
Coatings Manufacturing
Chemetal US Inc
Chemical Coaters Assoc Int'l
ChemQuest Inc
Chemtec North America LLC
Chicago Coating Technologies
Chris Plating
ClearClad Coatings LLC
Clemco Industries Corp
Col-Met Engineered Finishing
Solutions
Columbus Industries Inc
Combustion and Systems Inc
Coral Chemical Co
CPR Systems
Custom Fabricating & Supplies
Daifuku North America - Jervis
B Webb Company
Decoral System USA Corp
DeFelsko Corp
Delfin Industrial
Dinamex Systems
Divine Brothers Co

FINISHING & COATING

DMP Corporation
Dosatron International Inc
DST Chemicals Inc
DuBois Chemicals Inc
Duraair Technologies Inc
Durr Systems Inc
Echo Engineering
Eisenmann Corp
Elcometer Inc
Electrocoat Association, The
ElektroPhysik USA Inc
Enhanced Powder Coating LLC
Enhancement Technologies
Inc / Sublitez Miroglio
Environmental Coatings Inc
EPSI (Engineered Products
& Services Inc)
Ervin Industries
FANUC America Corp
Filtermedia SRL
Fischer Technology Inc
Flex Trim USA
Fluke Process Instruments
Fostoria Process Equipment,
div. of TPI Corp.
Frost Inc
Gema USA Inc
General Automatic Transfer
General Fabrications Corp
George Koch Sons LLC
Global Finishing Solutions
GMA Industries Inc
Goff Inc
Graco Inc
Graphic Products
HafoVac
Hedson Technologies North
America
Henkel Corp
Hentzen Coatings Inc
Heraeus Noblelight LLC
Herr Industrial Inc
Hosco Fittings LLC
Houghton International Inc
Hubbard-Hall Inc
IFS Coatings Inc
IHC Inc
INTEK Corporation
IntelliFinishing
International Thermal Systems LLC
INTERTEK
Iowa Area Development Group
IST International Surface
Technologies
Jamestown Coating
Technologies
Jinzhou Honor Galvanized
Equipment Co Ltd
Keyland Polymer Material
Sciences LLC
Klinger Paint Co
Kolene Corporation
Kyzen Corporation
LDPI Inc
Magic Rack/Production
Plus Corp
MAXIAIR Systems
MetoKote Corp
Micro-Surface Finishing
Products
Midwest Finishing Systems
Mighty Hook Inc
Mode Kartela Boya Ltd Sti
Munters Corporation
NikoTrack LLC
Nordic Air Filtration
Nordson Corp
Northern Coatings & Chemical
NorthStar Products
Novacel
Osborn
Parker Ionics
Patriot Metal Finishing
Systems Inc
PEM Inc
Pneu-Mech Systems Mfg
Pollution Control Products Co.
Polymer Molding Inc
Poppelmann Plastics USA LLC
Porcelain Enamel Institute Inc
Powder Coated Tough
Magazine
Powder Coating
Powder Coating Institute
Powder Parts Inc
PPG Industries Inc
PRICEWalgren a division of
George Koch Sons
Proceco Ltd

FINISHING & COATING

Products Finishing Magazine
Protech Powder Coatings
Quaker Chemical Corporation
QuickLabel Systems
Raptor Blasting Systems
Richards-Wilcox Conveyor
Rohner
RollSeal Inc
Ruwac
Sames Kremlin
Sankyo Rikagaku Co Ltd
Sata Spray Equipment
SciTeex Group
Sculpt Nouveau
Selas Heat Technology
Sherwin-Williams
sia Abrasives
Sierra Paint Corporation
Singer Safety Co
Southern Systems Inc
Specialty Aerosols/Raabe/
Precision Color
Spray Systems Inc
Spray Tech/Junair
Spraying Systems Co
Stanza Machinery
Sunkiss Thermoreactors Inc
SuperMax Tools
Surface Armor
SWECO
System Technologies
Tanis Inc
Technotrans America
Therma-Tron-X Inc
Thierica Equipment Corp
Transmet Corp
Trimac Industrial Systems
Uni-Spray Systems Inc
V&S Galvanizing LLC
Valmont Coatings
Vapor Technologies
Venjakob North America Inc /
Nutro Inc
Vitracat America Inc
Vogel Industrial Coatings
VULKAN Blast Shot
W Abrasives
Wagner Systems Inc
Webb-Stiles Co
Westran Thermal Processing
Yeuell Nameplate & Label

FORMING & FABRICATING

1960 Seravesi SRL
Technologies
Accur
Accupress
AccuStream Inc
Acrotech Inc
Acutus Industrial Power Inc
Advanced Machine &
Engineering
Aerospace Manufacturing
& Design
AFM Advanced Manufacturing
Technologies
Ajan Elektronik Servis Sanayi
Ve Ticaret Ltd St
AKS Cutting Systems Inc
AKYAPAK ULUSLARARASI
DIS TICARET MAK. SAN. VE
TIC A.S.
Al-Fe Heat Treating Inc
Alfra USA LLC
Alliance For American
Manufacturing
Alliance Machine and
Engraving LLC
Allied Powers LLC
Allied Powers LLC
Allor Manufacturing Inc/Plesh
Industries
Alistate Saws & Machining LLC
Alistrap Steel & Poly Strapping
Systems
Allure Industries
Alma CAM USA LLC
Alternative Parts Inc
AM Machinery Sales Inc
Amada America Inc
American Cutting Edge
American Photonics
American Punch Co
AMS Controls Inc
ANDRITZ Herr-Voss Stamco Inc
Anhui Huatian Mechanic
Co Ltd
AP Lazer
Apex Machine Group

FORMING & FABRICATING

ARKU Coil Systems Inc
Armour Alloys
Armstrong Kover Kwick Inc
ARNITZ Inc
Arro-Mark Co LLC
Arrowhead Manufacturers &
Fabricators Assoc
ASKO Inc
ASTES4 SA
Athead
Atrzy Korea Co Ltd
Autodesk Inc
Automated Machinery Inc
(AMI)
Autotec Inc
AVEVA Inc
AXOOM GmbH
Azarbud Inc
B&Bartoni spol s.r.o.
B&O Saws Incorporated
Barton International
Baykal Makine A.S.
Beamer Laser Systems
Beck Automation
Beckhoff Automation
Behringer Saws Inc
Beka-Mak Makina Sanayi Ve
Ticaret AS
Betenbender Manufacturing Inc
BidSpotter.Com
Big Steel Rack
Binder USA LP
Black Hills Energy
Blastec Inc
Blue Chip Engineered
Products Inc
Blue Water Engineering Pty Ltd
BOFA Americas Inc
Boldrini srl
Bonak
Bosch Rexroth Corp
Boschert Precision Machinery Inc
Bowlin Manufacturing Inc
Box On Demand
Bradbury Co Inc
Bradbury Group Australia
Bradbury Group, The
Bradbury Metal Tile Roofing
Solutions
Braner USA Inc
Brobo / Ken Bergman &
Associates
Burghardt - Schmidt Group
Burnco Prodevco Robotic
Solutions
Burny
Burr King Manufacturing Co
Bushman Equipment
Butech Bliss
BUWW Coverings Inc
Bystronic Inc
C Marshall Fabrication
Machinery Inc
Cagle Industrial Maintenance
Cajo Technologies
Carell Corporation
CASTEM HOUSTON LLC
Centricut
Cerasis Inc
CH Steel Solutions Inc
Chambrelan Industrial
Slides Inc.
Changzhou City Wansui Tools
Works
Chase Cooling Systems
Chicago Slitter
CIDAN Machinery Inc
Cincinnati Inc
CLARCOR Industrial Air I UAS
Cleveland Punch & Die Co
Cleveland Steel Tool Co
CM Evolution SRL
CMF
CMS North America Inc
Coastline Oy
Coherent Inc
Coldwater Machine Co
COLE-TUVE Inc
Comblift USA
COMEQ Inc
CONCOA Inc
Control Works Inc
Controlled Automation Inc
Cosen Saws
Costa Sanders
Coulson Ice Blast
Coveted Financial Services LLC
Cowles Tool Co
Creaform

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Createch Machine and Design
CTD Machines
Current Composites Inc
Custom Rollforming Corp
Cy Laser America
D.I. Wire / Pensa Labs
Dahezhongbang (Xiamen)
Intelligent Technology Co
Daito USA Inc
Dake Corporation
Dalmecc Inc
Darex LLC
data M Sheet Metal Solutions
GmbH
DAVI Inc
DCM Tech Inc
Denray Machine Inc
Design 2 Part
Design Data
Design Storage & Handling Inc
Despres Tank
Diamond Saw Works Inc
Diamond Wire Spring
DIMECC Ltd
Dimeco Coil Technologies Inc
Disma Metalmecanica
Disston Tools
Diversified Transportation
Services
DMC Metal Finishing
DoALL Sawing Products
Donaldson Torit - Donaldson
Company Inc
Dongguan Maozhong
Precision Hardware Co. Ltd
Doring Cold Saws
Doucet Machineries Inc
Dr. Shrink Inc.
Dreistern Inc
DropsA USA
DSS America Inc
DT Engineering
Dude Solutions
Durma - Durmazlar AS
Dynabrade Inc
Dynatec Manufacturing Inc
E Jordan Brookes Co
Eagle Bending Machines Inc
Eberle America Inc
Econco/CPI
EDM Tech Center Inc
EHRT North America
Ekide
Elesa USA
ELG Metals Inc
Elumatec North America Inc
Emmegi USA Inc
Enutron Industrial Corp
Epicor Software Corp
Epilog Laser Corp
Ercolina - CML USA Inc
ERIEZ
Ermaksan Makina San Ve
Tic. AS
ESCO Tool Co
F & B Manufacturing LLC
Fab Supply Inc
Fabricating & Metalworking
Magazine
Fabricators & Manufacturers
Association
FabSuite LLC
Faccin USA Inc
Factory Cat
Family Business USA
FARO Technologies Inc
Fascut Industries
Fastenix
Faulkner Fabricating Inc
FAW Tooling Die
Manufacturing Co Ltd
Felton Inc
FF Journal/Modern Metals
Ficop Corporation
Fisher Unitech
Fladder-Hansen & Hundebol Inc
FlashCut CNC
FlexArm Inc
Flow International Corp
Fluke Corporation
Focus Technology Co Ltd
FomUSA
Formdrill USA Inc
Formtek Inc
Fortress Interlocks
Frantz Manufacturing Co
FreePoint Technologies Inc
Fujitsu Glovia Inc

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Fuxin Jiufeng Hydraulico
Co. Ltd
Garant Machinerie
Gas Control Systems Inc
Gasparini SpA
Gauer Metal Products Inc
GE Mathis Co
General Wire Form
Genius Solutions
GINGRAS/Machinerie G A S
Glen Dimplex Thermal
Solutions
Global Shop Solutions
GMA Garnet USA Corp
GMC Machine Tools Corp
Gorbel Inc
Gravotech Inc
GSM America Inc
H2O JET Inc
Haas Saw & Supply
Haberle / Ken Bergman &
Associates
Haco-Atlantic Inc
Haeger Inc
HAESLER AG Duggingen
Hafendorfer Machine Inc
Hainan E-Mfg Technology
Co. Ltd
Haitong Metals Manufacturer
Ningbo China
Hangzhou Grand Imp & Exp
Co Ltd
Hangzhou Xiangsheng
Abrasive Machine
Manufacturing Co. Ltd
Hans Laser Technology
Industry
Group Co Ltd
Hans Weber Sales and
Service Corp
Harmonic Drive LLC
Hayes International
Hawdel Group of Companies
Heinrich Georg GmbH GEORG
HEM Inc
Hexagon Manufacturing
Intelligence
HGG Profiling Equipment BV
HIWIN Corporation
HK Laser & Systems
Holtec Gas Systems
Hornet Cutting Systems
Hougen Manufacturing Inc
Hsin Fu Chia Industrial Co Ltd
Hyd-Mech Group Ltd
Hydren Systems LLC
Hypertherm CAM
Hypertherm Inc
Hypertherm Inc
Hyster Co
igus Inc
II-VI Infrared
IMCO Associates Inc
IMSM Inc
Industrial Machine Trader
Industrial Magnetics Inc
Industrial Market Place
Industrial Molded Rubber
Products
InfoSight Corp
Inoue Special Steel Co. Ltd
International Technologies Inc
Inware Corp
IQMS
ISB
Italcam USA Inc
Jackson Precision Industries
Jacquet Metals/Jacquet
Midwest
Jenoptik Automotive North
America LLC.
Jet Edge
JETCAM-NestONE Solutions
JIP Fasteners Inc
Ji' An RuiPengFei Precision
Technology Co. Ltd
Jinan Bodor CNC Machine
Co Ltd
JMR Industrial
JobBOSS
JobPack Inc
Jobscope ERP
Jordi Universal VSL
Kalamazoo Machine Tool
Kalamazoo Metal Muncher
Kar Metal San Ve Tic LTD STI
Kaspar Manufacturing
Kasto Inc

FORMING & FABRICATING

KB Duct - A CECO
ENVIRONMENTAL COMPANY
KD Capital Equipment LLC
Keller USA Inc
Kelly Services
Kentek Corp Laser Safety Div
Kern Laser Systems
Ketec Precision Tooling Inc
KeyedIn Solutions
Keyence Corp of America
Kinetic Cutting Systems Inc
KKT chillers
Klingelhofer Corp
KMT Waterjet Systems Inc
Knifefol
KNUTH Machine Tools USA Inc
Komatsu America Industries LLC
Kors Engineering Co Inc
Kyntronics
Laguna Tools
Lantek Sheet Metal Solutions
LAP Laser
Lapham-Hickey Steel
Laser Experts Inc
Laser Research Optics
LaserStar Technologies Corp
Laserservision
Lazer Safe Pty Ltd
Leader Precision Drive
LENOX®
Lincoln Electric Co
LISSMAC Corp
LS Industries Inc
Lumentum
LVD Strippit
Lyon Industries
Machine Concepts Inc
Machinery Dealers National
Assoc
MachineTools.com
Manufacturing News
Manufacturing Solutions
Marion Die & Fixture Inc
Markman
Marvel Manufacturing Co
Masteel America Corp
Master Magnetics
Master Roll Manufacturing
Mate Precision Tooling
Matrix Measuring Systems
Maxphotonics Co Ltd
Mazak Optonics Corp
MB Metal Technologies LLC
MC Machinery Systems Inc
MD Metals
Measurement Systems Intl
A Rice Lake Weighing
Systems Co
MECCO
MegaFab
Messer Cutting Systems
Mestek Machinery Inc
Metal Center News
MetalFinish LLC
MetalForming Inc
Metalix CAD/CAM Ltd
MetaMation Inc
Metform International Ltd
Metlsaw Systems Inc
MG
Midwest Automation
Midwest Tool Inc
MIE Solutions Inc
Millner-Haufen Tool Company
Modern Manufacturing
Technologies Intl
Mohawk Machinery Inc
Morton Machine Works
Moss International Srl
Muller - Load Containment
Solutions
MultiCam Inc
Mundt & Associates Inc
Murata Machinery USA Inc
MVD Makina Sanayi A.S.
Nadella Inc
nano-purification solutions
Nantong Reliant
NBH Metals
Nebraska Public Power District
New London Engineering
Nitro Kohki USA Inc
nLIGHT Corp
NN, Inc. Precision Engineered
Products Group
Nordfab Ducting
Norio Technology Inc
NRT Equipment Sales
NSK Americas

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FORMING & FABRICATING

Nucor Buildings Group
Nukon USA
Num Corp
Nutron Nameplate Inc
Oakley Industrial Machinery
Oasis Scientific Inc
Ocean Machinery Inc
Oerlikon Metco (US) Inc
Ohio Laser LLC
OMAX Corp
OMCO
OmegaCube Technologies
Oncor
Ophir Spiricon LLC
Orion Machinery Co Ltd
OSAI USA
Pacific Press Technologies
Packsize International LLC
Pangborn Group
Pannier Corp
Paper-Less LLC
Park Industries
Parker Hannifin
Pat Mooney Saws
Peddinghaus Corp
PEP Technology
Perfection Global LLC
Permadur Industries Inc
Peter Prinzing GmbH
Phoenix Laser Solutions
Phoenix Metals Co
Plasti-Contentedores S DE
RL MI
Polyurethane Products Corp
Power Solutions Pro
Precision Saws Inc
Press Brake Repair
Press Brake Safety
Presto Lifts Inc
Prima Power North America Inc
Project Tool & Die Inc
Purux Inc
PythonX - A Lincoln Electric
Company
Quantum Machinery Group
Radan
RAS Systems LLC
RDI Laser Blanking Systems
REA Magnet Wire
Red Bud Industries
Replacement Brush Tables
Rhino Cutting Systems
Richardson Electronics Ltd
Rigidized Metals Corp
Rocklin Manufacturing Co
Rolled Alloys
Rolleri USA
Roper Whitney
ROUND
Rousseau Metal Inc
RWM Casters Co
Ryerson
SafandDarley BV
SafetyPlusWeb
Salvagnini America Inc
Samco Machinery Ltd
Samson Roll Formed Products Co
Sawblade.com
SB Specialty Metals LLC
SB Whistler & Sons Inc
Schelling America Inc
Scotchman Industries Inc
Scotchman Industries Inc
Semyx LLC
Sentfeng CNC & Laser
Technology USA Inc
Service Lamp Corp
SES Salico Finishing and
Processing LLC
Shanghai Golden Arrow
Automatic Equipment
Technology Develop
Shanghai Qianjun Tools Co Ltd
ShopData Systems Inc
Shoptech
SICK Inc
SigmaTEK Systems LLC
Simonds Saw
Sinto Surface Treatment
Slatpro LLC
SME
Solitaab USA Inc
Spanco Inc
SPI Lasers
STAM Spa
Stamperia Carcano
Giuseppe Spa
Standard Industrial Corp
Starrett Company

FORMING & FABRICATING

State of Wyoming
Staub Manufacturing Solutions
Steel Storage Systems Inc
Striker Systems
Strong Hold Products
STRUMIS LLC
Studio Eleven Promotional
Products
Sturdell Industries Inc
Sugar Steel Corp
SUNS International LLC
Supra Machine Tool
SYSPRO USA
TAB Industries LLC
Tapeswitch Corporation
T-Drill Industries Inc
Techflex Inc
TechGen Media Group Inc
TECHNI Waterjet
Technical Translation Services
Telesis Technologies Inc
Tenex Fabrication
TeraDiode Inc
The Aquila Group Inc
The Fabricator Magazine
The M.K. Morse Company
Thermal Care
THK America Inc
Three D Metals/Williams
Metals and Welding Alloys
TigerStop LLC
Timesavers LLC
Torchmate
Tradesoft Inc
Tribogenics Inc
Tri-Chem Corp
Trilogy Machinery Inc
Trimble Solutions USA Inc.
Tri-Mer Corp
Trim-Lok
TRUMPF Inc
Tsun America LLC
TYKMA Electro
Ungerer Technology GmbH
UnifPunch Products Inc
United Industries Inc
United Lens Co
Ursviken Inc
US Industrial Machinery Co
US Lubricants
Verisurf Software Inc
VERNON Tool - A Lincoln
Electric Company
Virtek Vision International
Vollmer Of America
Voortman Corporation
VyTek
Walker Magnetics
WARDJet Inc
Waterjet USA LLC
Weil Engineering North
America
Welsper Profile GmbH
Wheelabrator Group
Wila USA
Wilson Tool International
Wisconsin Metal Parts Inc
WM Caster
Workshops For Warriors
Worthington Industries
Wysong Parts & Service
XCELHR
XinXiang TianFeng Machinery
Manufacture Co Ltd
xTuple — Open Source
ERP+CRM + Web Portal
Yarde Metals Inc
YESTOOL / Aloris USA
Zhejiang Dongye Valve Co Ltd
Zund America Inc

GERMAN PAVILION

DURUM Verschleiss-Schutz
GmbH
DVS e V
evobeam GmbH
GEFERTEC GmbH
GVB GmbH - Solutions in Glass
Haane Welding Systems
infoBoard USA LLC
Kaindl Schleiftechnik Reiling
GmbH
Lessmann GmbH
Official German Information
Stand
PSTProducts GmbH
WEICON Inc

METALFORM

AAF International
ABC Metals Inc
Accra-Wire Controls Inc
Accurate Die Design Software
Inc./Logopress3
Admiral Steel LLC
Agathon Machine Tools Inc
AGIR Technologies
AIDA-America Corp
AIDA-America Corp
ALCOS Machinery Inc
Alma Machinery Co
Almco Inc
Almetals Company
Alro Steel Corporation
American Manufacturing Inc
Anchor Danly
Anchor Manufacturing
Group Inc
AP&T North America Inc
ART Metals Group
ASC Machine Tools Inc
Associated Spring Raymond
Atlas Technologies
AutoForm Engineering USA Inc
Automated Tapping Systems
Bad Dog Tools
Balluff Inc
Beckwood Press Co
Benteler Maschinenbau GmbH
Berg & Co GmbH
Spanntechnik
Bestar LLC
BesTech Tool Corp
Big Ass Solutions
Bihler of America Inc
Blacksmith Technology
Limited
Bohler Uddeholm Corp
Brown Boggs Machine Co
Bruderer Machinery Inc
BSP Tools (Kunshan) Co Ltd
BTD Tool & Die
Bunting Magnetics Co
C2AE Architecture +
Engineering
Champion Die Tool
China Machinery Industry
Engineering (Dalian) Co Ltd
CIECO Inc
Clayton Metals
Clips & Clamps Industries
COE Press Equipment
Corporation
COE Press Equipment
Corporation
Colt Automation LTD
Cometel S A
Dallas Industries Inc
Daubert Cromwell
DAYTON Lamina Corporation
Dees Hydraulic Industrial
Co Ltd
Delta Computer Systems Inc
Delta Industrial
DESCH Canada Ltd
Die Cad Group Inc
DieTronic/Kent Corp
Dongguan A-one Metal Co Ltd
Dongguan Gooming
Mechanical Co Ltd
Dongguan Lelin Tilledet Metal
Technology Co. Ltd.
Dongguan Meinie Tool & Die
Co Ltd
Dongguan Rocky Tool & Die
Co Ltd.
Dongguan SYH Tooling Co Ltd
Dongguan Wangbo Metal
Dongguan Wisdom Tool &
Die Co Ltd
DTC Products Inc
Dubuque Stamping & Mfg Inc
Durable Superior Casters
Dynamic
Eagle Metals
Eagle Press & Equipment
Co Ltd
EAS Mold & Die Change
Systems Inc
ECI M1
EECCO Inc
eifeler Coatings Technology
Eigen
Electra USA, Inc.
Electrex Industrial Solutions
Elizabeth Carbide Components
Enprotech Industrial
Technologies

METALFORM

Erickson Metals Corp
ESI North America
ETA Dynaform
Eurolink Inc
Excelsior Hardware & Plastic
Co Ltd
F&G Tool and Die Co
Fagor Arrasate
Feed Lease Corp
Feintool Technology
Fibro Inc
FluidForming Americas
Fontijne Grotnes North
America
Forming Technologies Inc
FORMTEK-ME
Fox Valley Spring Co LLC
Fuchs Lubricants Co
GERB Vibration Control
Systems
Global Metal Spinning
Solutions Inc - DENN USA
Metal Forming
Green Valley Manufacturing Inc
Greener Press & Machine
Company Inc
Griess Group
Gruber Tool & Die Inc
Guthrie Pressenspannen GmbH
Haas Automation Inc
Hangzhou Sida Machinery &
Electronics Co.
Helm Instrument Co Inc
Heraeus Electronics
Heyco Metals Inc
Hidrolislan Halim USTA HIDP
Press Ltd STL
Higrade USA Inc
Hilma Div Carr Lane Roemheld
HINMLI CO LTD
Hitachi Metals America
Hong Kong Metals
Manufacturers Association
HONGJU Automotive
Components Tool & Die
Co Ltd
Hotset America / Strack
Norma
Houghton International Inc
HTM Sensors
Hubei Zheyu (Goldsense)
Machinery & Equipment
Husky Rack & Wire
Hutchison Tool Sales Co
Hwail Press Co Ltd
Hydraulic as
HYSON Metal Forming
Solutions
Hil Ionbond Inc
Impax Tooling Solutions
Industrial Innovations Inc
Industrial Machinery Digest
Intercomp
International Chemical Co
Jarvis Cutting Tools
JD Norman
Jiangsu SUNSN Precision Tool
Technology Co Ltd
Jiashan PVB Sliding Bearing
Co. Ltd.
JIER North America
JIT Automation Inc
J-Tech
Kaeser Compressors Inc
KALLER Gas Springs
Kinyou Tool & Die Co Ltd
Kolev Engineering Inc
Komatsu America Industries LLC
Kosmek USA
Kovinoplastika Loz D.D.
Kunshan Dersun Precision
Mould Co Ltd
Kunshan DLS Technology
Co Ltd
Kunshan Eagle Precision
Tooling Co Ltd
Latrobe Specialty Metals
Distribution
Lee Contracting Inc
Leifeld Metal Spinning AG
Lenzkes Clamping Tools Inc
Linco Precision Industrial
Co. Ltd.
Linear Transfer Automation Inc
Link Electric & Safety Control
Logopress3/Accurate Die
Design Software Inc.
LSP Industries Inc
Lucky Harvest Co Ltd

METALFORM

MachineMetrics
Macrodyne Technologies Inc
Manitowoc Tool &
Manufacturing LLC
Marine Services International Inc.
Mayfran International Inc
Meccanica Rossi USA Corp
Metal Supermarkets Service
Company Inc
Metalaser S.A. de C.V.
Metaloid Corp
MetalMizer
Metreel Inc
Midwest Industrial Metals
MJC Engineering &
Technology Inc
Modula
Moeller Precision Tool
Mollificio Bordignon srl
MPI Magnetic Products Inc
Multipress Inc
Neff Press Inc
NGK Metals Corp
Nidec Minster Corp
Ningbo Goanwin Machinery
Manufacturing Co Ltd
NKS LLC
Norgren Automation
Solutions LLC
O'Brien Lifting Solutions Inc
ODM Tool & Manufacturing
Co Inc
OGS Industries
Oriental Casting Inc
Oriime Corporation of
America
Ortochemicals
Ortech Inc
Overton Industries
P&G Fluid Power Inc JET-SET
P/A Industries Inc
Pacesetter Systems
Paulo
Pax Products Inc
Penn United Technologies Inc
PennEngineering
Philpott Rubber/Lankhorst
Mouldings
Piab Inc
Plex Systems
Pottier America LP
Precious Plate Inc
Precision Metal Stamping Tool
and Product Co. LTD.
Precision Metalforming
Association
Precision Punch Corp
Precision Stamping Products
Premier Tooling &
Manufacturing Inc
Prescor LLC
Press Room Equipment Co
Pressroom Electronics Inc
Principal Manufacturing Corp
Production Tube Cutting Inc
ProMANAGE Smart
Manufacturing Solutions
Pronic Inc
Puritan Magnetics
Quintus Technologies AB
R&M Manufacturing Co LLC
Radyne Corp
Raffin Construction Company
Ramcel Precision Stamping
and Manufacturing LLC
Rapid-Air Corp
Ravne Presses D.O.O.
Raziol Zibulla & Sohn GmbH
Ready Technology Inc
REHA Makina Ic Ve Dis Tic
San Ltd Sti
Res Manufacturing
Rock Valley Oil & Chemical
Co Inc
Rockford Systems LLC
Rolled Metal Products
Roller Die + Forming Co
Ross Controls
Ross Technology Corp
RUF Briquetting Systems
Sangiocomo Presses
Americas LLC
Schleifstein Maschinentechnik
GmbH
Schuller Incorporated
Sen Fung Rollform Machinery
Corp
Serapid Inc

METALFORM

SEYI America Inc
Shenyang Jinbel Imp/Exp
Co Ltd
Shenzhen Haiyi Tool & Die
Co Ltd
Shenzhen HuaYuanDa
Technology Co Ltd
Shenzhen Manyes Precision
Metal Co Ltd
Shenzhen Yalu Industry Co LTD
ShopEdge Software Inc
Showa Precision Tool Co Ltd
SIMPAC Inc
Solar Atmospheres
Southern Machinery Repair Inc
Southwestern Industries Inc
Speed Springs LLC
Special Metal Fabrication Inc
Stamtec Inc
Stanley Spring & Stamping
Corp
Starrett Company
Steel Craft Technologies
Steel King Industries Inc
Stripmatic Products Inc
Sunrise Metal Technology
Co Ltd
Superior Die Set Corp
Sutherland Presses
Taiwan Linkigi Metal Co Ltd
Taylor Made Solutions Inc
Tecnomagnete Inc
TELOS Global
The Heim Group
Theta TTS Inc.
Toledo Integrated Systems
Toptime Precision Electronics
Co Ltd
Torque Inc
Torque Technologies Inc
Torspec International Inc
Tower Metalworking Fluids
Trans-Matic
Travelers Indemnity Company
T-Sim Solutions
TST Tooling Software
Technology LLC
TURCK Inc
Uelner Precision Tools & Dies
Ulbrich Stainless Steels &
Special Metals Inc
Ultratech Tool & Design Inc
Unico Inc
Unisorb Installation
Technologies
Unist Inc
United Aluminum Corp
United Machine Corp
United Performance Metals
United Wire Co Inc
Vaughn Manufacturing Co
Versatility Professional Tool
Storage
Vibro/Dynamics LLC
Victory Tool
Vidir Machine Inc
Viking Blast & Wash Systems
Vincent Clad Metals
Corporation
VKS - Visual Knowledge Share
Voith Turbo Inc
Wieland Metals Inc
Wilco Inc
Wintriss Controls Group LLC
WorkWise Software
World Precise Machinery
Co Ltd
Wuxi City GEYI Mechanical
Co Ltd
Wuxi Lear-Dpca Technology
Co Ltd
Wuxi Micro Research Co Ltd
Wuxi Minghao Automotive
Parts Co Ltd
Wuxi White Eagle
Metalforming Machinery
Co Ltd
Xact Wire EDM Corp
Xander Automotive Stamping
& Tooling Ltd
Xinyongxu Metal & Die
(Shenzhen) Co Ltd
Yangli Group Co Ltd
Yangzhou DTM Tool & Mold
Co Ltd
Yih Shen Machinery Co. Ltd
(YSM)
Yuyao Jingqiao Hardware
Factory

METALFORM

Zapp Precision Strip
Zeen (Jiangsu) Tooling & Auto
Parts Co Ltd
Zerostart-tool Manufacture Ltd
Zerust Corrosion Solutions
Zhejiang Jinaolan Machine
Tool Co Ltd
TUBE & PIPE
3D Fab Light
5 Star Engineering and
Maintenance
Accurate Technology Inc
Accurex Measurement Inc
Addison Machine Engineering Inc
Addition Manufacturing
Technologies
Advanced Fabricating
Machinery
Advanced Tubular
Technologies Inc
Ajax Tocco Magnethermic
Corp
Alpine Bender Machinery
Ambrell Induction Heating
Solutions
American Hydroformers
AMPICO Metal Inc
ASMAQ USA Inc
Astro Pak
AWS Schäfer Technologie
GmbH
AXXAIR USA
Bend Tech
Beverlin Specialty Tube
BIDUE S.r.l.
BLM GROUP USA Corp
Cangzhou Changyuan Fittings
Co Ltd
Cannistraro Fabrication
Services
Changzhou City Liany Special
Stainless Steel Tube Co. Ltd
Chiyoda Kogyo-Maruka USA
Clark Fixture Technologies
CMP Automation
Comblift Inc
Comco USA Inc
Comet Roll & Machine Co
Continental Pipe & Tube Cut-
Off Machines
Cornerstone Capital Partners
Crippa SPA
Crum Manufacturing Inc
Current Tech
DeeTee Industries Ltd
DMCTECH Co., LTD
Duck Myung Co. Ltd.
Ecogate Inc
Eddytech Systems Inc
EFD Induction Inc
Elmaksan Makina
Eurobor USA
Euroils SPA
FD Machinery
FIT RITE Systems LLC
Fives
Flowdrill Inc
Framag Industrieanlagenbau
GmbH
Fromm Packaging Systems
Full Vision Inc
Gem Tool Corporation
George A Mitchell Co
GH Induction Atmospheres LLC
Graebener Inc
Guld International
Haven Manufacturing Corp
Horn Machine Tools Inc
Huth Ben Pearson
International LLC
icotech Corp.
II-VI HIGHYAG
Innerspec Technologies
Innovative Tube Equipment
Corp
INNOVO Corp
InspecTech
ISEND SA
J&S Machine Inc
JD Squared Inc
Jepson Power
Kent Corp
Kinkelder USA
Lakeland Products
Laser Marking Technologies LLC
Lilbacka USA
Magnetic Analysis Corp

TUBE & PIPE

Mair Research SpA
Manchester Tool & Die Inc
Manufacturing Solutions Industries Inc
Metaloid Corp
Metronor Inc
Miic OPTON (USA)
Mill Masters
NDT Technologies Inc
New Form Tools Ltd
Numalliance Inc
Olimpia 80 Srl
OMCG Inc
OMNI-X USA
OP USA Inc
Overton Industries
Pandjiris Inc
Passline Performance
Patterson Fan Co
PHI
Pillar Induction
Pines Engineering/H&H Tooling
Plymvent Inc
Proto-1 Manufacturing
R&B Machining Inc
Rafter Equipment Corp
Rattunde Corporation
REA JET US
Ready Robotics
Rigaku Analytical Devices
Roll Machining Technologies & Solutions
Saar Hartmetall USA LLC
SAET Emmedi
Sage Automation Inc
Sanderson Machines Ltd
Schmalz Inc
Schwarze-Robtech GmbH
SciAps Inc
Shanghai TAYOR Heavy Industry (Group) Co Ltd
Sharpe Products
Shijiazhuang Teneng Mechanical & Electrical Equipment Co Ltd
SST Forming Roll Inc
Struers Inc
T&H Lemont
Tallyrand Ind Systems Inc
Tenryu America Inc
Thermatool Corp
Thermo Fisher Scientific Tools for Bending
Transfluid Maschinenbau GmbH
Tremefil Izaguirre SA
Tru-Cut Saw Inc
TRUMPF Inc
Tube & Pipe Technology
Tube 2018 - Messe Dusseldorf North America
Tube Bending Concepts Inc
Tube Form Solutions
Tubex Technology Machinery
Tubing Central
Ultraflex Power Technologies Corp
Uniflex Of America
UniPunch Products Inc
Unison LTD
Universal Controls Group
Universal Tool & Engineering
Universal Tube & Rollform Equipment Corp
Vinlong Stainless Steel (Vietnam) Co Ltd
Vulcan Tool Corp
WAFIOS Machinery Corp
Watts Mueller
Wauseon Machine & Manufacturing Inc
Winton Machine Company
WORX Environmental Products
Xiris Automation Inc
Yada Piping Solution Co Ltd
YLM USA Inc
Yulchon Co LTD
Zhangjiagang Chewit International Co Ltd

WELDING

3M
ABB Inc
Abicor Binzel
Ace Industrial Products
AGT Robotics
Aimcham Abrasives
Aimtek Inc
Air Purification Inc
Airgas Inc
Alabama Laser
Alabama Robotics Technology Pk
Allegro Industries
Alliance Laser Sales
ALM Positioners Inc
ALS Maverick Testing Laboratories Inc

WELDING

American Friction Welding
American Innovative Manufacturing LLC
American Society For Nondestructive Testing
American Technical Publishers
American Torch Tip Co Inc
American Welding Society
American Welding Society Bookstore
American Weldquip Inc
AMET Inc
Andersen Industries Inc
ANDRITZ Soutec AG
Angle-Rite® Clamping System
Anthony Welded Products Inc
Antra Technologies Co Ltd
Anxin Abrasives Co Ltd
AquaSol Corp
Arc Machines Inc
Arc Products
ARC SPECIALTIES Inc
ARCON Welding Equipment LLC
Artotic
Asada Corporation
Astrolite Alloys
ATI Industrial Automation
Atlanta Drive Systems Inc
Atlantic Welding Import & Export Co Ltd
Atlas RFID Solutions
Auburn Manufacturing Inc
Automatic Welding Wire Company Inc
Automation International Inc
Avani Environmental Intl Inc
AVS Industries LLC
AWS Professional Welders Competition
AWS Professional Welders Competition
Axelent Inc
Azusa Safety Inc
B&B Pipe & Industrial Tool
Baoji Boze Metal Products Co Ltd
Barefoot Ergonomic Flooring by Beagle I Inc
Beijing Essen Welding & Cutting Fair
Beijing Metals & Minerals Corp
Beilun Futuo Mechanical Tools
Bernard
BESSEY Tools North America
Beta Tools USA
Beveler USA Inc.
Black Stallion
Blackbird Robotics Inc
Bluco Corp
Blue Demon Welding Products
Bob Dale Gloves & Import US Inc
Bollhoff USA
Bonal Technologies Inc
Bore Repair Systems Inc
Boss Manufacturing Co
Boss Products LLC
Bradford Derustit Corp
BTIC America Corporation
BTM Company LLC
Buffalo Shrink Wrap
BUG-O Systems
C & G Systems
C H Symington & Co Inc
Cadi Co Inc
Cambridge Vacuum Engineering
Canaweld Inc
CANTESCO®
Capital One Spark Business Card
Capital Weld Cleaners
Carr Lane Manufacturing Co
CEI
CEIA USA Induction Heating Systems
CENTIT North America Inc
Cerbaco Ltd
CGW-Camel Grinding Wheels USA
Changzhou Asia Science & Technology Co Ltd
Changzhou Huarui Welding & Cutting Machinery Co Ltd
Changzhou Longren Mechanical & Electrical Co Ltd
Changzhou Shine Science & Technology Co Ltd
Changzhou Yatai Welding & Cutting Technology Co Ltd
Changzhou Zhengyang Welding Material Co Ltd
Chart Inc
Chengdu OSB of Science and Technology Co Ltd

WELDING

Chicago Pneumatic Tool Co
China Guangzhou Get Star Welding Equipment Co Ltd
Cibo NV
CK Worldwide
Clamptek USA Inc
CleanSpace
Cloos Robotic Welding Inc
Closed Loop Recycling
CM Industries Inc
CMEC Engineering Machinery Import & Export Co Ltd
COB Industries Inc
Cold Jet
Computers Unlimited
Continental Abrasives
Coral SPA
COR-MET INC
Coxreels Inc
CS Unitec Inc
D/F Machine Specialties Inc
Dakota Ultrasonics
Dalian Chengchuang Machinery Co. Ltd
Dalian Dongri Trade Co. Ltd
Dalian Zhongsheng Metal Products Co Ltd
Danatronics Corp.
Dataweld Inc
Dedeco International Inc
Dengshen America Corp
DEWALT - Power Tools & Abrasives
Diagraph MSP an ITW Company
Automation International Inc
Diamond Ground Products Inc
DIMIDE
Dino-Lite Scopes (BigC)
Dinse Inc
Direct Wire & Cable
Diversitech
Dongying Highyond
Investment Casting Co Ltd
Drahtwerk Elisental GmbH & Co
DualDraw LLC
Dynatorch Inc
E. H. Wachs
Easom Automation Systems Inc - A Lincoln Electric Company
Edge Manufacturing Inc
Eidos Ergonomics
Elcometer Inc
eldec LLC
Electron Beam Technologies Inc
Encompass Machines Inc
EnergyTech Inc
Ensitech Inc
ESAB Welding & Cutting Products
ESAB Welding and Cutting Automation
ESTA Extraction USA LP
Eurovac
Evolution Power Tools LLC
Fagor Automation Corp
FANDEL Coated Abrasives
FANUC America Corp
Fastenal Company
Fein Power Tools Inc
Ferris State University
Filter 1
Fireball Tool
Firelec Solutions LLC
Firewheel Industrial Corp
Fit-up-Gear
Flame Technologies Inc
Flange Wizard Inc
Flexovit USA Inc
Fluid Chillers Inc
FOCUS GmbH
Forney Industries Inc
Fronius USA LLC
Fronius USA LLC
FumeVac
Fusion Inc
G&J Hall Tools Inc
Ganzhou Hongfei Tungsten & Molybdenum Materials Co LTD
GE Schmidt Inc
Genesis Systems Group
Genesis Systems Group
Genstar Technologies Inc
GENTEX Corp.
Global Industrial Supply Co Ltd
Golden Eagle
Minmetals(Beijing)
Widg Materials Co
Goss Inc
Gripnail Corporation
Güdel, Inc.
Gulin Nanjian Welding Materials Co. LTD
Gulico International

WELDING

H & M Pipe Beveling Machine Co Inc
Hangzhou Topwell Technology Co. Ltd.
Harbert's Products Inc/Allied Flux Reclaiming Ltd
Hardface Technologies by Postle
Harris Products Group
Haynes International
Headux Electric Co Ltd
Hebei Xinyu Welding Co. Ltd.
Heck Industries
Henan Huamao Metal Materials Co Ltd
Hermes Abrasives Ltd
Heron Machine & Electric Industrial Ltd
Heshan Wode Tungsten & Molybdenum Co Ltd
Hisco
HIT Welding Industry Co Ltd
Hitachi High-Tech Analytical Science
Hobart Brothers
Hobart Institute of Welding Technology
HOSO Metal Co Ltd
HTP America Inc
Huys Industries Ltd
Hypertherm Inc
Hyundai Welding
IBEDA/Superflash Compressed Gas Equipment Inc
Ideal Welding Systems LP
igm Robotic Systems Inc
Imperial Systems Inc
In.Motion Technology Distribution
Intercon Enterprises Inc
International Welding Technologies Inc
InterTest
IPG Photonics
IRCO Automation Inc
Ironworker Management
Progressive Action
Cooperative Trust
IVEC Systems
Jainson Cables India Pvt. Ltd
JASIC Technologies America Inc
Jiangsu BTMMF Advanced Materials Science & Technology Co Ltd
Jiangyin Chengqing Special Alloy Material Co Ltd
Jiaxing Aerotec Precision Co Ltd
Jinan Chpro Commercial Co Ltd
Jinan Xintian Technology Co Ltd
Jingyu Welding & Cutting Co Ltd
Jinhua Glarystep Tools Manufacture Co Ltd
Jinzhou Newroute Hyperpure Material Co Ltd
Jisheng Electric Machinery Co Ltd
JLC Electromet Pvt LLC
John Tillman Co
Jaysun Abrasives Co Ltd
JR Automation Technologies
Kalas Wire Inc
Kawasaki Robotics (USA) Inc
Kayo Products Co Ltd
KeepTheHeat
Kent Stud Welding Co Ltd
Keystone Fastening Technologies
Kistler Cutting and Welding (Kistler GmbH)
Kiswel USA Inc
Klimawent USA LLC
KLINGSPOR Abrasives Inc
Kobelco Welding of America Inc
Koike Aronson Inc
KUKA Robotics Corporation
Kyoung Dong Machinery Co Ltd
Laboratory Testing Inc
LA-CO Industries Inc
Laizhou Hongyuan Bench Vise Manufacture Co Ltd
Laser Marking Technologies LLC
Laser Mechanisms Inc
Laserline Inc
Lasermet Inc
Lianyungang Orientcraft Abrasives Co Ltd
Liburdi Automation Inc
LinAn Da Yang Welding Material Co Ltd
Lincoln Electric Co
Linemaster Switch Corp

WELDING

LSN Diffusion Ltd/Surface Flow Technologies Inc
Luvata Ohio Inc
Machitech Inc
Magnatech LLC
Magswitch Technology Inc
Maryland Brush Co
Mathey Dearman
Matsumoto US Technologies Inc
Matuschek Welding Products Inc
McDantim Inc
MCR Safety
Meccanica Ronzani Srl
Mercer Industries
Meta Vision Systems Inc
Metabo Corp
Metal Man Work Gear Co
Metal Science Technologies Pty Ltd
Michigan Pneumatic Tool Inc
Micro Air
Midalljoy
Miller Electric Mfg Co
Miller Electric Mfg Co
MK Products Inc
Morris Precision Technology Company Limited
Motoyuki Co. Ltd
Movex Inc
MPM Products Inc
MSC Software
MTA-USA LLC
Multi-Contact USA
Multimet SP ZOO
NASA Technology Transfer Program
Nation Wide Products
National Ornamental
National Standard
Nederman LLC
Nelson Stud Welding Inc
Neuman Aluminium Impact Extrusion Inc
New Fire Co Ltd
Newland (Tianjin) Welding Wire and Metal Products Co Ltd
Ningbo Kimpin Industrial Pte Ltd
Ningbo Nisten Enterprise Co Ltd
Ningbo Powerway Alloy Material Co Ltd
Ningbo Qisheng Welding Tools Plant
Ningbo Starex Welding & Cutting Tech Technologies
Nodha Industrial Technology Wuxi Co. Ltd
Norton | Saint-Gobain
Novarc Technologies Inc
Octopuz Inc
Olympus
OR Lasertechnology Inc
OTC DAIHEN Inc
Oxylance Inc
Padar Marketing Group
Panasonic Factory Solutions Company of America
Panjin Tiangong Precision Casting Co Ltd
PDS Bartech Inc
Pearl Abrasive Co
Pemamek Oy Ltd
PFERD INC
Phoenix International Inc
PITTARC Welding Wires
Plasma Automation Inc
plasma USA LLC
Polymet Corp
Praxair Inc
Precitec Inc
Preco Inc
Preston-Eastin Inc
Pro Spot International
proAutomation LLC
Production Design Services Inc (PDSI)
PROFAX / LENCO
PROTEM USA LLC
PTR-Precision Technologies Inc
PushCorp Inc
Pyro Shield Inc
Qingdao Everbest Trading Co Ltd
Rasco FR
Resistance Welding Machine & Accessory
Rex-Cut Abrasives
Rhodius USA
Richard J Daley College
RIDGID
RIMCO Rotator
Rite Hite Machine Guarding
Robotic Automation
Robotmaster

WELDING

RoboVent
RBP Safety LLC
Ruhlamat Automation Technologies (Suzhou) Co Ltd
Saf-T-Cart Inc
Sakura of America
Sandvik Materials Technology
Sanpo Publications Incorporated
SanRex Corp
Saru Silver Alloy Private Limited
Schweissen & Schneiden
Seedorff Acme Corp
Seit Electronica
Sellstrom Manufacturing Co
Serimax Holdings
Servo-Robot Inc
Seventy Eight Co Ltd
Shandong Aotai Electric Co Ltd
Shandong Juli Welding Co LTD
Shandong Yanggu Jingyong Investment Casting Co., Ltd
Shanghai Hugong Electric Group Co Ltd
Shanghai Mealer Welding Equipment Co Ltd
Shenyang Machine Tool Xifeng Foundry Co Ltd
Shenyang Zhongde Tools Co. Ltd
Shenzhen Donrun Welding Equipment Co Ltd
Shenzhen Huayilong Electric Co Ltd
Sideros Engineering Srl
Sir Meccanica SpA
Siretifier Electronics
Technology Corp of Jiangsu
SMA Abrasives USA, LLC
SMC Corporation of America
Soph Inc
Southern Copper & Supply
Southern Stud Weld Inc
Special Metals Welding Products Co
SPECTRO Analytical Instruments
Stainless Structures LLC
Steelmax Tools
Steel-Smith & Case-Maul
Clamps Inc
Steiner Industries
Stor-Loc Corp
Strong Hand Tools
STUAA Automation (Qingdao) Co Ltd
Sturbridge Metallurgical Services
Suhner Industrial Products Inc
Sumig Usa Corp
Summer Manufacturing Co., LLC
Superior Abrasives LLC
Superior Joining Technologies Inc
Surface Engineering Alloy Co
T. J. Snow
Tab and Slot LLC
Taipan Canada
Tandi International Co Ltd
Taylor-Winfield Technologies Inc
Team Industries Inc
TEC Welding Products
Techniwell USA
TECMEN Electronics Co Ltd
TECNA SpA
Tennessee Rand Inc
Tersura Abrasives Co Ltd
Thermacut Inc
Thermal Dynamics
Thermo Instrument Corp
Thermion Inc
Tianjin Jinlong Welding Material Co Ltd
Tianjin Xinsen Welding Materials Co Ltd
TIGER-VAC USA INC
Tip Tig USA LLC
Top Cat Air Tools
Tregaskiss
Trendex Inc.
Tri Tool Inc
TRU-FIT Products TRU-Weld
Trystar Inc
TURCK Inc
TWI North America LLC
Tyrolit Industrial Abrasives
UltraTech International Inc
U-Mark Inc
United Abrasives Inc /SAIT
Universal Robots Usa Inc
Uniwell Products Inc
Uwell Technologies Co Ltd
VDM Metals USA LLC

WELDING

Veroine LLC
Victory CNC Plasma Systems
Vitronic Machine Vision
Vizient Manufacturing Solutions Inc - A Lincoln Electric Co
Vladimir Plant of Precision Alloys
voestalpine Bohler Welding USA Inc
VSM Abrasives Corp
Walter Surface Technologies
Washington Alloy Co
Wayne Trail Technologies
Weiler Abrasives Group
Weld Engineering Co
Weld Pride USA For Weldbrush
Weld Systems Integrators Inc
Weld-Aid Products
Weldas Co LLC
Weldcoa
WeldComputer
Welder Training & Testing Institute
Welding Alloys USA
Weldobot Technologies Inc
Weldsale LLC
WELDTEx Inc.
Welker Engineered Products
Wendt USA LLC
Wenzhou Essen Welding Equipment Co Ltd
Wenzhou Xidin Electronics Technology Co Ltd
West Chester Protective Gear
Western Enterprises
Winking Abrasives Co. Ltd.
Winner Tungsten Products Co Ltd
Winnox Industries Ltd
Wire Wizard Welding Products
Wisconsin Wire Works Inc
WITT Gas Controls
Wolf Robotics LLC - A Lincoln Electric Company
Wuhan HGLaser Engineering Co Ltd
Wuhan Weihei Photoelectric Co Ltd
Wuxi Kenke Heavy Industry Equipment Co Ltd
Wuxi Ronniwell Machinery Equipment Co Ltd
Wuxi Yincheng Science & Technology Co Ltd
Wuzhou Ally Protect Co Ltd
Yancheng DLD Welding Science and Technology Co. Ltd.
Yaskawa America Inc
York Portable Machine Tools
Zhejiang Changzheng Project Carbon Electrodes Co Ltd
Zhejiang Jingwei Welding & Cutting Technology Co Ltd
Zhejiang Jinhua Cumet Abrasive Co Ltd
Zhejiang Juba Welding Equipments Manufacturing Co Ltd
Zhejiang Poney Electric Co Ltd
Zhejiang Seleno Science and Technology Co Ltd
Zhuji Shengjie Machinery Co Ltd
ZIMM USA Inc
ZJ Industries Inc
Zormot International 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 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 300C 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.

ZEISS Industrial Metrology

Booth B73
ZEISS COMET L3D 2



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

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.

ABIMIG WT (Manual MIG Torch)



The high amperage ABIMIG WT water-cooled series has an advanced cooling system to protect against spatter bridging. Rotating, quick change necks offer reduced service costs and provide exceptional access. Up to 600 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.

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.

the first head, then move aside and watch the machine automatically flange the next heads without manual intervention.

PAO Hydraulic Dishing Presses



Boldrini CNC PAO Dishing Line Fast Edition Playback System

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.

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

Carell Corporation

Booth A4873

ETM-90HD 3" Pipe Capacity Bending Machine



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.

Innovative Tube Equipment Corp

Booth B11029

Ultra Fast 1" Capacity R/L CNC Bending Machine



The Herber 150RL is a high quality, ultra fast, all electric, compact, multi-stack, right/left CNC bending machine with a small foot print.

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**

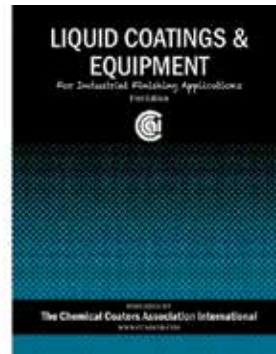
Booth C41336
Welding Source



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**

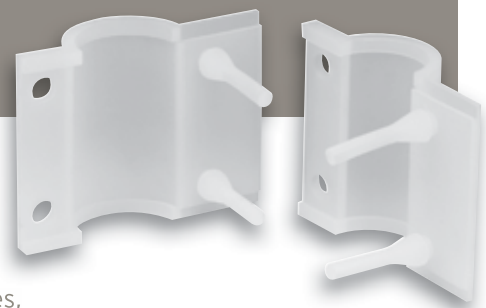


A guide to operating a liquid coating system & managing the process for efficiency & profit, emphasizing issues affecting daily operations. It combines material from two previous CCAI manuals offering the most updated information on coatings & equipment.



I need reusable wraps to mask a steel pipe.
 They must be easy to install and remove,

and withstand extreme
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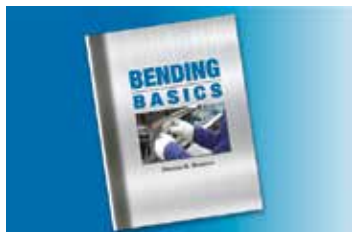
Visit us at FABTECH,
 Booth #A5745

Business Services

Fabricators & Manufacturers Association

Booth A1267

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

Booth A5631

Center for Metalforming Careers (C4MC)



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

Booth A1574

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).

Coil Processing

Allor Manufacturing Inc./ Plesh Industries

Booth A4489

Precision Pull-Thru Line Leveler



Roll plunge based on gauge and yield, positions machine for desired plastication. Real time roll bending corrects strip defects. Auto side shift cassette change. 4-HI machine allows for 5 or 6-HI with no mods required.

Burghardt + Schmidt Group

Booth A4287

Burr Height Measuring System – EP 300 – INLINE



Quality control for all slitting processes.

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 device.

COE Press Equipment Corporation

Booth A5621

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.

Cutting

MegaFab

Booth A3840

Piranha Hy-def Plasma

Messer Cutting Systems

Booth A4860

MetalMaster 2.0

METALMASTER 2.0
Superior cut performance
at a low cost.



Compact 5' x 10', low cost, plasma cutting machine that can be installed and ready to use quickly.

MetalMaster Evolution

THE NEW
METALMASTER EVOLUTION



The MetalMaster Evolution, a unitized gantry cutting machine that utilizes plasma, oxyfuel and plasma bevel cutting to produce excellent cut parts.

PlateMaster II

THE PLATEMASTER II
YOUR SHOPS PATH TO PROFIT



The PlateMaster II is a rugged steel, dual drive box beam gantry with heavy-duty floor mounted rail system, provides a platform for plasma and oxy-fuel cutting.

MetalMaster Xcel

SEE THE
METALMASTER Xcel
CUTTING MACHINE IN ACTION
BOOTH A4680



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.

► FABTECH EDUCATION PROGRAM



With more than 150 targeted technical, operational, economic, and managerial sessions, you'll discover the solutions you need to advance your career and business.

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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

308H, 308L, 309L, 316L, 347, 2209. Available in 3/32" and 1/8" diameters.

Call for special chemistry and diameter requests.



BOOTH
B37058



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.

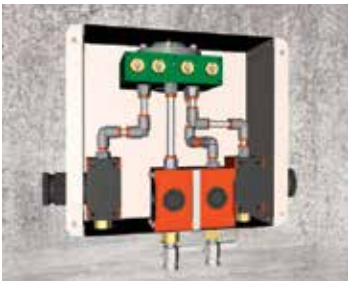
LISSMAC Corp
Booth A4842
Grinding Machine SMD 123 RE



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® TM2B450



The TM2B450 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® TM4000-2 (standard or laser model) gas blending system can provide up to 4000 scfh of a two-component gas blend.

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



AFFORDABLE PRODUCTIVITY

We offer a complete line of Metal Fabricating Machines. Our professional sales team can help you find the right machine at the right price.



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Exclusive 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®

DYNAMIC EQUIPMENT PROTECTION

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.

FiberCube Laser Engraving Systems

Now available in 10-100 watts, the FiberCube features an improved body style that is easier to service, a larger interior workspace, auto door and 15" Z Axis. 100% compatible with StarFX Laser Engraving Software. Made in USA.

FiberCube XL Laser Engraving System

FIBERCUBE XL
LASER ENGRAVING SYSTEM



FiberCube XL Laser Engraving System is a compact, turnkey engraving system that offers the benefits of a non-contact, abrasion-resistant, permanent laser mark, engraving, or cut on most materials and includes an extra-large workspace for larger parts.

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 LXN 1000 Coil Fed Laser



The Dalcos LXN1000 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.

Machining/EDM**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.

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.

TAB Industries LLC

Booth A3599
Third Roller Dispensing Unit

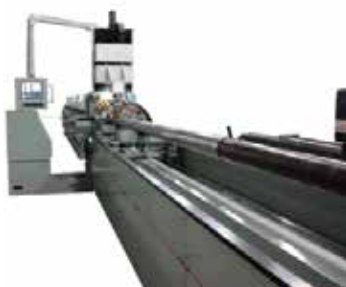
The Third Roller Dispensing Unit is designed to eliminate flop in the stretch-

wrap when wrapping low profile loads on the TAB WRAPPER TORNADO. This easy to install add-on option will ensure that low profile loads are wrapped safely and securely.

Other Machinery/Equipment/Parts/Products

ARC Specialties Inc

Booth B35047
ARC-11S CNC Sand Control Screen Winder



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

Caplugs

Booth A5745
RSP-SH Series - Rubber Resealable Plugs



RSP-SH series plugs are designed to be used in the heating, venting and air conditioning (HVAC) industry during the coating process. The plug carefully masks the inlet and outlet tubing, and are injectable for pressure testing the compressor unit.

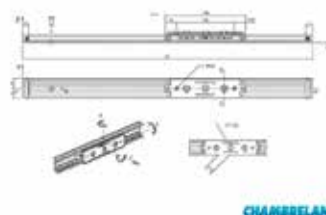
Chambrelan Industrial Slides Inc.

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.

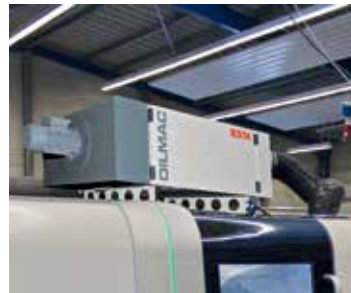
ESTA Extraction USA LP

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.

OILMAC - 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.

Hydraulic 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.

TURCK Inc

Booth A5012
Miniature Inductive Sensors



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, melttric 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.

Cincinnati Inc

Booth A4014
CPX-300



Cincinnati introduces its CPX-300 Plasma System.

ESAB Welding & Cutting Products

Booth B17074
DMX Automated Plasma Beveler



ESAB's DMX Automated Plasma Beveler delivers performance improvement through a simple, compact design. DMX uses direct drive motors to reduce complexity, eliminate the need for break-away 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.

Press Brakes**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.

HG 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.

HM 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.

EG 4010

The EG 4010 is an ideal compact press brake solution to produce small sheet metal components that demand a high degree of precision.

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

The tools of innovation.

**Plate/Pipe
Beveling**

**Mag Drills
Punches**

**Metal
Cutting**

**Welding
Automation**

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.



The Latest Innovations From **Steelmax**

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



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

www.steelmax.com

877-833-5629

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.

FABTECH
LIVE DEMOS!
BOOTH
A4848

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T. J. Snow

Booth B17000
TECNA MFDC Welder



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.

WeldComputer

Booth B32066
Weld Data Bridge



The Weld Data Bridge provides storage for on-line access to more than a year's production data. The unit is an easy add-on to new or existing WeldComputer® products.

Robotics**Abicor Binzel**

Booth B19045
CAT3 (Collision Mount)



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)



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.

ARC Specialties Inc

Booth B35047
RoboCell 2P



The RoboCell 2P maximizes efficiency and throughput by configuring 1 robot to constantly work between two workstations.

Robotic Material Handling, Marking, & Palletizing



The robotic system grabs pieces of pipe from the buyer's existing saw's outfeed conveyor using a magnetic gripper. The system then presents the pipe to the deburring station.

Collaborative Robot Welding Package



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

ATI Industrial Automation

Booth B15042
Axia80 Force/Torque Sensor



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

Bystronic Inc

Booth A1819
Xpert 40 Mobile Bending Cell



Mobile robot automation meets high-speed bending with the Bystronic Xpert 40 press brake with Mobile Bending Cell, -- a compact solution for automated as well as manual bending operation.

Peddinghaus Corp

Booth A1845
PeddiBot-1200



The PeddiBot-1200 is a robotic thermal processor which incorporates the sciences of high performance plasma cutting, layout marking, and robotic efficiency to process all structural steel fabrication functions in one stand-alone machine.

Piab Inc

Booth C41730
piSTAMP Vacuum Generator



A fully decentralized generic vacuum generator design with compressed air ports at the side and vacuum port underneath, piSTAMP will fit perfectly in generic suction cup holders found in standard press shop tooling systems. Ultra lightweight.

Safety & Environmental

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.

Saws & Cut-off Machines

Dake Corporation

Booth A4492

V-16 Vertical Bandsaw

Heavy duty vertical bandsaw for large production pieces. Comes with a blade welder, blade speed selector, and digital tachometer.

V-26 Vertical Bandsaw

The Dake Corporation line of industrial strength, metalworking vertical band saws are engineered for long-lasting performance. A robust frame construction reduces wobble and vibration assuring precise cuts with fewer errors.

Universal Tube & Rollform Equipment Corp

Booth B10057

Wall, High Speed Flying Cut Off



3" OD x .160" Wall, High Speed Flying Cut Off

Software & Machine Controls

Bystronic Inc

Booth A1819

Manufacturing Execution System (MES)



The Bystronic Manufacturing Execution System (MES) allows users to manage every individual manufacturing step according to defined costs and deadlines.

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.

Hypertherm CAM

Booth A3231

ProNest 2017 v12.1



ProNest CAD/CAM nesting software is designed for advanced mechanized plasma, laser, waterjet, and oxy-fuel cutting. This software provides full support for Hypertherm's Sure-Cut™ technologies including True Hole® and True Bevel™.

IMCO Associates Inc

Booth C40523

CIMAG MES



Manufacturing Execution System. This is a stand alone MES software that can also be integrated with other legacy systems.

Energy Management System



This is a stand alone software that can also be integrated with other

legacy systems. Measures, compares and alerts of consumption deviations from expected standards. Works for Electricity, Fuel, Gas and Water.

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

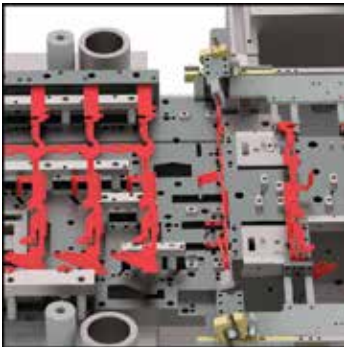
Finn-Power Intelligent Crimper Control (ICC)



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.

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 compliant 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.

THIS IS HUGE

**GREATLY EXPANDED
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UP TO 6in WALL THICKNESS**

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

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- Onsite machining of heavy wall pipe & vessels up to 6in (152mm) wall thickness

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Booth B17037

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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.

Stamping

Oriimec Corporation of America
Booth A5048
ORII RHQ 120 Transfer Robot
The RHQ Robot for press to press transfer applications.

Stamtec Inc
Booth A5431
iS2-176



The latest in servo technology, featuring a production line anchored by a Stamtec Model iS2-176, 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.

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 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

B&B Mega 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.

COLE-TUVE Inc
Booth A3875
Upgraded NC Control



COLE-TUVE's Sahinler 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.

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.

Versatile & Affordable Electric CNC Tube Bender



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

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.

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.



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Booth B37008

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Tube & Pipe Fabricating or Welding

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



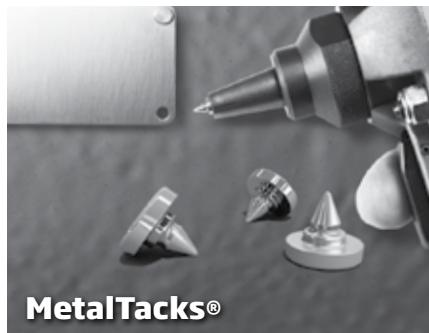
3" OD x .166" Rafted Tube Mill Line

Smart Fastening Solutions *That Save Time*



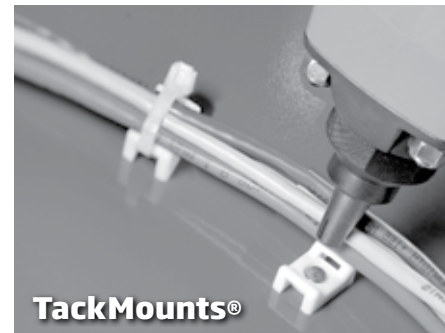
CD Weld Pins

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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-CrZr shank provide higher hardness and better electrical conductivity.

Weiler Abrasives GroupBooth **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.

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INTERNATIONAL, INC.*Products for a cleaner, safer world.***THE MOST POWERFUL, MOST PORTABLE, BATTERY-POWERED WELDER AVAILABLE.***See a Demo at FABTECH - Booth B21033*

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.

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Welding Machines/ Equipment

CMP Automation

Booth B18083

Welding Automation

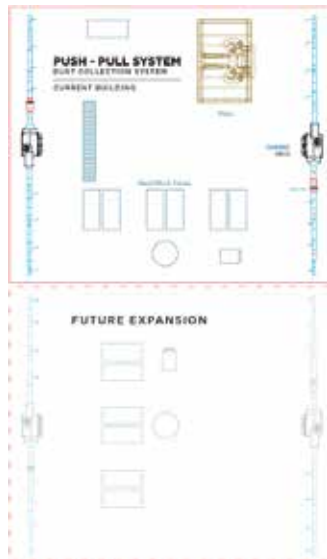


CMP Automation designs and manufactures fully automated custom welding systems and robotic welding solutions. We deliver high quality welding solutions for a broad range of applications.

Imperial Systems Inc

Booth B15061

Modular Push-Pull Dust Collection System



The CMAXX is a modular dust and fume collector that can be sized for any application. With two CMAXX collectors, one pulling air from inside the facility and the other pushing air in as a push-pull system, continuous ambient airflow is achieved.

Master Magnetics

Booth A3188

On/Off Magnetic Welding Squares



On/Off magnetic welding squares from Master Magnetics offers 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.



StrongHandTools

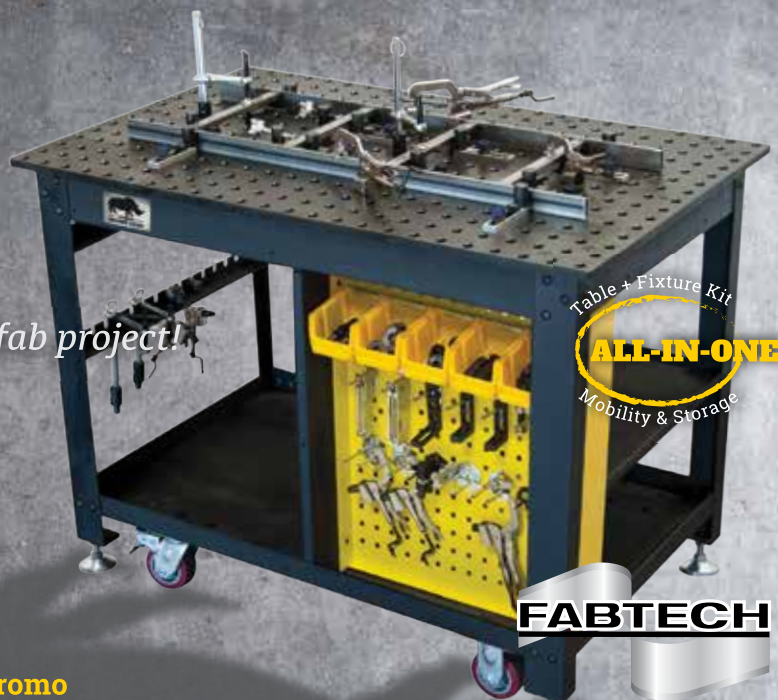
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Booth# B35010

Strong Hand Tools

Booth B35010

Big Mouth™ Pliers

Strong Grip® Big Mouth Pliers have 4-adjustment slots to instantly adjust the jaws for holding capacities from 1/4" – 3". The crank handle quickly opens and closes the Plier jaws and holds parts in position while adjusting the clamp pressure.

Pipe Fit-Up Clamps

The Pipe Fit-Up Clamp is a light-weight clamp for the quick fit-up of round pipes for butt welding. Easy-to-use design for the rapid, repeated loading and unloading of workpieces.

MagTab JUMBO

Hold tabs, steel plates and odd shaped pieces in position against a substructure for tack welding with this larger version of the MagTab tool.

Rhino Cart® Mobile Fixturing Station

The Rhino Cart® Mobile Fixturing Station is a mobile turnkey system for fixturing and clamping in welding and fabrication.

"I see you will get more performance and safety than ever before..."



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
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MAX SAFETY



Welding Machines/ Equipment

TRUMPF Inc

Booth A2601

TruLaser Weld 5000



The TruLaser Weld 5000 revolutionizes laser welding. FusionLine perfectly coordinates 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.

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.

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.

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



Visit us at
Booth B32091

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 Theater** presentations and much more.

All events are free and open to all attendees unless otherwise noted.

► 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

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

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



► 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

WOMEN OF FABTECH BREAKFAST WITH TECH TOUR

7:30 – 10:30 AM

Join us for a networking breakfast celebrating the importance of women in the manufacturing sector. Price: \$25

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

TECHNOLOGY	8:00 AM – 10:00 AM	10:30 AM – 12:30 PM	1:30 PM – 3:30 PM
3D/ADDITIVE MANUFACTURING		F20: Fundamentals of 3D Additive Manufacturing for Fabricators B	F30: NEW Fundamentals of 3D Additive Scanning and Imaging I
AUTOMATION/SMART MFG		F27: NEW Introduction to IIoT & Strategies for Evaluating Industry 4.0 I	F37: NEW Automation and Smart Machines: The Future of the Factory I
CUTTING		F21: NEW Automating in Cutting B	F31: Comparative Cutting Systems with Tech Tour B
FINISHING		C20: Fundamentals of a Successful Powder Coating Operation B	C30: NEW Fundamentals of a Successful Liquid Coating Operation B
		C21: Fundamentals of a Successful Electrocoat Operation B	C31: NEW Fundamentals of Plating and Anodizing B
		C22: NEW Rack-up Profits with Productivity and Efficiency I	C32: NEW Blasting Your Way to Successful Metal Preparation B
FORMING & FABRICATING	F18: Coil Processing: Leveling, Slitting and Best Practices I	F28: NEW Tube & Pipe Cutting I	F38: NEW Panel Bending Technology I
	F19: Press Brakes for Engineers I	F29: Roll Forming Basics and Justification B	F39: NEW Press Brake Cost Reduction I
JOB SHOP			F36: Activity-Based Costing and Estimating for Profitability in the Job Shop I
LASERS		F22: NEW Fiber Laser Cutting and Joining: Recent Advances in Technology, Tools and Applications B	F32: NEW Laser Additive Testing and Application Solutions I
LEAN	F14: NEW Lean Principle: Strategic Planning and Organizational Alignment A	F24: NEW Lean Principle: Developing People and Processes B	F34: Lean Tools: A3 Thinking - Developing People & Solving Problems I
MANAGEMENT	F15: NEW Today's Digital and Inbound Marketing Strategies for Fabricators I	F25: NEW Current Economy, Labor and Employment Update for Manufacturing A	F35: NEW Achieving Supplier Success in Today's Global Manufacturing Environment A
STAMPING	S10: NEW Deep Draw Process Technology I	S20: NEW Deep Drawing Principles I	S30: Lubrication Selection & Application I
		S21: Die Sensing Fundamentals I	S31: In-Die Assembly, Monitoring & Adjustments I
STRUCTURAL STEEL/PLATE		F100: NEW AISC Market Outlook and Certification B	F200: NEW Structural Steel Case Study B
WORKFORCE DEVELOPMENT	F13: NEW Managing Complex Change: The Challenge of Implementing a Significant Improvement Initiative B	F23: NEW Mission Critical: Tackling the Manufacturing Skills Gap I	F33: NEW Managing Conflict and Delegation Strategies for Effective Leadership B
WELDING			
SEMINARS	W10: D1.1 - Structural Steel Code Clinic - 2015	8:30 AM	4:30 PM
	W11: What's New in the 21st Edition of API 1104	8:30 AM	4:30 PM
CONFERENCES	W25: Thermal Spray Coatings – FREE	1:00 PM	5:00 PM
PROFESSIONAL PROGRAM	W27: Session 1: Additive Manufacturing	2:00 PM	5:00 PM
	Session 2: Modeling 1	2:00 PM	5:00 PM
	Session 3: Friction Stir and Solid State Welding	2:00 PM	5:00 PM
EDUCATIONAL SESSIONS	W33: National Center for Welding Education and Training, Weld-Ed	9:00 AM	4:30 PM
SPECIAL PROGRAMS	W35: AWS Prayer Breakfast	7:00 AM	8:30 AM

TUESDAY, NOVEMBER 7

SCHEDULE-AT-A-GLANCE

TECHNOLOGY	8:00 AM – 10:00 AM	10:30 AM – 12:30 PM	1:30 PM – 3:30 PM
3D/ADDITIVE MANUFACTURING	F40: NEW Business Considerations for 3D Additive Technology with Tech Tour B	F50: NEW Design Considerations for 3D Additive Technology I	F60: NEW Considerations for Small to Large Additive 3D Printing I
AUTOMATION/ SMART MFG	F47: NEW Automating with Laser Technology I	F57: NEW Introduction to Smart Manufacturing and Asset Optimization in Real-Time B	F67: NEW Robot-Based Automation Systems I
CUTTING			F61: NEW Waterjet Cutting Solutions for Quality Cut and Speed I
FINISHING	C40: NEW Fundamentals of Pretreatment B	C50: NEW Finishing End User Case Histories I	C60: NEW Understanding the Importance of Wastewater Treatment I
	C41: NEW Plating and Anodizing Industry Success Stories I	C51: NEW Mejorando el Desempeño Total Del Sistema de Pintura en Polvo I	C61: NEW Practical Approach to Optimal Powder Coating Operations A
	C42: NEW Solving 21st Century Coating Challenges with Durable Porcelain Enamel I	C52: NEW Finishing System Design Criteria I	C62: NEW Optimizing Liquid Finishes I
FORMING & FABRICATING	F48: NEW Tube Producing and Joining B	F58: NEW Advanced Roll Forming Tooling and Line Troubleshooting A	F68: NEW Press Brake Tooling I
	F49: NEW Advanced Punching Capabilities for Fabricators I	F59: NEW Advanced Press Brake Technology I	F69: NEW Steel 101: Mill to Fabricator B
JOB SHOP	F46: NEW Cracking the Paperless Code for Manufacturers I	F56: NEW Lean Manufacturing Journey Through the Job Shop B	F66: NEW Leverage Real-Time Costs and Double Output I
LASERS	AWF100: NEW Laser Welding for Today's Fabricator Workshop I		F62: NEW Innovative Laser Application and Solutions B
LEAN	F44: NEW Lean: Value Stream Mapping, Addressing Differences Between Office and Shop Floor I	F54: NEW Lean Tools: Flow and Pull Creating Flow in High-Variety Environments I	F64: NEW Lean Tools: Quick Changeover and Total Production Maintenance (TPM) I
MANAGEMENT	F45: NEW Global Landscapes and Cultural Awareness for Competitive Advantage I	F55: NEW Accelerate Profitability Through Cost Reduction Strategies I	F65: NEW Innovative Strategies for Leading, Protecting and Growing Your Organization B
STAMPING	S40: NEW Press Line Optimization I	S50: NEW Machine Modernization & Safeguarding I	S60: NEW Equipment Installation I
	S41: NEW Cutting & Punching Technology I	S51: NEW Lubrication Technology I	S61: NEW Transfer Die Technology I
STRUCTURAL STEEL/PLATE	F300: NEW Structural Fabrication Equipment Technology I		F400: NEW Structural Steel Software Solutions I
WORKFORCE DEVELOPMENT	F43: NEW Leadership Actions to Transform Your Culture and Create Employee Engagement B	F53: NEW Strategies for Learning and Leveraging Your Leadership I	F63: NEW Accelerating Workforce Performance Through Best Practices in Learning & Development I
WELDING			
SEMINARS	W12: NEW Crash Course of Welding Inspection Technology Seminar (WIT)		8:30 AM 4:30 PM
	W13: NEW The Why and How of Welding Procedure Specifications - Beginner		8:00 AM 12:00 PM
	W14: NEW The Why and How of Welding Procedure Specifications - Advanced		1:00 PM 5:00 PM
	W15: NEW The Why and How of Welding Procedure Specifications - Both		8:00 AM 5:00 PM
	W16: NEW Applications of Stainless Steel Welding - Day 1		8:30 AM 4:30 PM
	W17: NEW ASME Section IX, B31.1 & B31.3 Code Clinic - Day 1		8:30 AM 4:30 PM
CONFERENCES	W24: NEW Tubular Structures Conference		8:00 AM 3:00 PM
RWMA SCHOOL	W26: NEW RWMA Resistance Welding School - Day 1		8:00 AM 5:00 PM
PROFESSIONAL PROGRAM	W28: Session 4: NEW Arc Welding		8:00 AM 12:00 PM
	Session 5: NEW Welding Metallurgy & Weldability		8:00 AM 12:00 PM
	Session 6: NEW Honorary Symposia for Dr. S. David and Prof. T. DebRoy - Joint Session A		8:00 AM 12:00 PM
	Session 7: NEW Industrial Technologies		2:00 PM 5:00 PM
	Session 8: NEW Honorary Symposium for Dr. S. David - Session B		2:00 PM 5:00 PM
	Session 9: NEW Honorary Symposium for Prof. T. DebRoy - Session B		2:00 PM 5:00 PM
EDUCATIONAL SESSIONS	W34: NEW AWS Education Sessions		8:30 AM 4:30 PM
SPECIAL PROGRAMS	W36: NEW AWS Awards Luncheon		12:00 PM 2:00 PM

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

B = Basic **I** = Intermediate **A** = Advanced

WEDNESDAY, NOVEMBER 8

SCHEDULE-AT-A-GLANCE

TECHNOLOGY	8:00 AM – 10:00 AM	10:30 AM – 12:30 PM	1:30 PM – 3:30 PM
3D/ADDITIVE MANUFACTURING	F70: NEW 3D Additive for Metals, Tools and Castings B	F80: NEW 3D Additive Applications for Fabricators I	
AUTOMATION/SMART MFG	F77: NEW Robotic Joining Cells and Mass Production I	F87: NEW Smart Manufacturing Execution System and Continuous Improvement Solutions I	F97: NEW Agile Design and Synchronized Manufacturing For Real Time Decision-Making A
CUTTING	F71: NEW New Technology in Plasma Cutting for Fabricators I	F81: NEW Advanced Cutting Tools, Applications and Software for Productivity I	
FINISHING	C70: NEW Managing Perceptions for Your Finishing Business I	C80: NEW Achieving Consistent Quality Finishes I	C90: Efficient Curing with Infrared B
	C71: NEW Mastering a Batch Finishing Operation B	C81: NEW See It. Touch It. Fix It. Identifying and Solving Finishing Defects I	C91: Protecting Your Most Valuable Asset: Your Employees I
	C72: NEW Advancements in Ambient Pretreatment I	C82: We've Got the Cure I	C92: NEW The Evolving Technology of Powder Coating A
FORMING & FABRICATING	F78: NEW Tube & Pipe Bending 101 I	F88: Roll Form Tooling Installation, Troubleshooting and Lubricants I	F98: Tube Laser Processing 101 B
	F79: Press Brake Safety: ANSI B11.3 Explained I	F89: NEW Best Practices: Machine Tool Field & Installation Service Technician Panel B	F99: Effective Safeguarding Risk Assessment B
JOB SHOP	F76: NEW Configurable ERP for Your Job Shop Future I	F86: NEW Guide to Getting the Best Out of Your Data I	F96: NEW Effective Product Differentiation In Commoditization Based Marketplace B
LASERS	F72: NEW Fiber Laser Technology & Advancements B	F82: NEW Laser Joining Advancements I	F92: NEW Laser Beams and Material Advancements B
LEAN	F74: NEW Lean Principle: Standardize Work - The Basis for Lean B	F84: Lean Tools: 5S Workplace Organization and Standardization I	F94: NEW Lean Principle: Hoshin Kanri - How to Achieve the Future You See A
MANAGEMENT	F75: NEW Innovation, The Art of Being Wrong I	F85: NEW Succession and Exit Planning for the Next Generation of Metal Fabricators B	F95: NEW How to Develop and Manage a Reshoring Project B
STAMPING	S70: NEW Metal Stamping Fundamentals B	S80: NEW Manufacturing ROI & Tax Credits I	S90: NEW Understanding Metal Stamping Presses I
	S71: Die Sensing Fundamentals B	S81: NEW Stamping, Assembly & Error-Proofing I	S91: NEW Advance Forming Technologies I
STRUCTURAL STEEL/PLATE	F500: NEW Steel Beam Assembly Technology B		
WORKFORCE DEVELOPMENT	F73: NEW Attract, Develop and Build a High Performance Millennial Team B	F83: NEW Six Keys to Team Leadership and Effective Workplace Teams B	F93: NEW Communicate, Build Accountability and Conduct Meaningful Evaluations in Your Organization I
WELDING			
SEMINARS	W16: Applications of Stainless Steel Welding - Day 2	8:30 AM	4:30 PM
	W17: ASME Section IX, B31.1 & B31.3 Code Clinic - Day 2	8:30 AM	4:30 PM
	W18: Ethics Seminar for Certified Welding Inspectors - Part A	8:00 AM	12:00 PM
	W19: What to Expect as a New Certified Welding Inspector - Part B	1:00 PM	5:00 PM
	W20: Ethics Seminar for Certified Welding Inspectors & What to Expect as a New Certified Welding Inspector (Part A & B)	8:00 AM	5:00 PM
	W21: The Visual Inspection Workshop	8:30 AM	4:30 PM
	W22: Fundamentals of Liquid Penetrant Testing for CWI's and Quality Assurance Personnel	8:30 AM	4:30 PM
RWMA SCHOOL	W26: RWMA Resistance Welding School - Day 2	8:00 AM	4:15 PM
PROFESSIONAL PROGRAM	W29: Session 10: Plenary Session	8:00 AM	9:30 AM
	Session 11: Laser Welding/Additive Manufacturing	9:40 AM	12:00 PM
	Session 12: Honorary Symposium for Dr. S. David - Session C	9:40 AM	12:00 PM
	Session 13: Honorary Symposium for Prof. T. DebRoy - Session C	9:40 AM	12:00 PM
	Session 14: Overlay and Cladding	2:00 PM	5:00 PM
	Session 15: Dissimilar Joining	2:00 PM	6:00 PM
	Session 16: Honorary Symposia for Dr. S. David and Prof. T. DebRoy - Joint Session D	2:00 PM	6:00 PM

THURSDAY, NOVEMBER 8

SCHEDULE-AT-A-GLANCE

TECHNOLOGY	8:00 AM – 10:00 AM	10:30 AM – 12:30 PM	1:30 PM – 3:30 PM
AUTOMATION/ SMART MFG	F107: NEW Standards and Air Quality for Risk Assessment in Your Automation I		
FINISHING	C100: NEW The ULTIMATE Powder Coating A	C110: NEW Got Corrosion? I	
	C101: Electrocoating Equipment Considerations B	C111: NEW The Evolution of Architectural Coatings I	
FORMING & FABRICATING	F108: NEW Tube & Pipe Forming A		
	F109: Roll Forming In-Line Punching, Cutoff Dies and Press Tonnage I		
JOB SHOP	F106: Sales 101 For The Fabrication Industry B	F116: Sustainable Design and Solutions for the Job Shop B	
LEAN	F104: Lean Tools: Preventative Maintenance and Sustainable Techniques & Life Cycle Assessments I		
MANAGEMENT	F105: NEW Increasing Organizational Readiness and Agility in Your Company A	F115: Marketing 101 for Fabricators B	F125: Grow Your Business: For Keeps or For Sale! I
STAMPING	S100: NEW Advancements in Press Technology I	S110: NEW Press Drive Technology A	
	S101: NEW Optimizing Sensor and Lubricant Applications I	S111: NEW Simulation & Process Design Improvement I	
STRUCTURAL STEEL/PLATE	F600: NEW Plate Rolling of Structural Steel I		
WORKFORCE DEVELOPMENT	F103: NEW 6 Steps to Hiring and The New Gig Economy B		
WELDING			
SEMINARS	W23: Fundamentals of Radiographic Inspection for CWI's and Quality Assurance Personnel	8:30 AM	4:30 PM
PROFESSIONAL PROGRAM	W30: Session 17: Sensing and Control	8:00 AM	12:00 PM
	Session 18: Modeling II	8:00 AM	12:00 PM
	Session 19: Testing and Characterization	8:00 AM	12:00 PM
SPECIAL PROGRAMS	AWS Certification Information Session: Move to Computer-based Testing (CBT) and Other Topics - FREE	9:00 AM	12:00 PM

EXPERIENCE LEVELS

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

B BASIC – Recommended for the attendee who is new to the industry or needs a refresher on the topic.

I INTERMEDIATE – Designed for the attendee who already has a basic understanding of the subject matter.

A ADVANCED – For the attendee with several years of experience who is seeking more in-depth information.

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