

Fabtech 2016

Fabtech begins in Las Vegas on Nov. 16 and will serve as North America's largest metal forming, fabricating, welding and finishing event through Nov. 18. This year, the event will bring in more than 1,300 exhibitors and an estimated 28,000 attendees thanks to its reputation as the premier convention for showcasing new technology, equipment and knowledge emerging in the fabrication industry. Visitors come to meet with world-class suppliers, to see the latest industry products and developments, and to find the tools to improve their fabricating operations.

MIG & TIG WELDING

ESAB Welding & Cutting Products offers live arc demonstrations of its Rebel welders. Also, it will unveil the ET 141i AC/DC, a 120-V inverter that provides an AC TIG output for welding aluminum and high-frequency, non-contact arc starts for AC or DC TIG welding. For welding thicker materials and full control over TIG and stick welding performance, the ET 186i AC/DC TIG/stick and the ET 201i DC TIG/stick welding systems are available.

ESAB Welding & Cutting Products



Booth No. N4529

WELDING EQUIPMENT

Miller Electric Mfg. Co. showcases the ArcReach stick/TIG remote, which allows welding operators to change stick/TIG weld settings at the weld joint; the Big Blue 600 Air Pak welder/generator, a 600-amp machine with an EPA Tier 4 Final-compliant Deutz engine rated at 65.7 hp for applications including rail, mining, construction and fabrication; and the Multimatic 215 multiprocess welder, which provides multiprocess capabilities for MIG, flux-cored, DC TIG and DC stick welding, and can weld up to 3/8-in.-thick mild steel in a single pass.

Miller Electric Mfg. Co.



Booth No. N3329 and N3733

FILLET WELDER

Bug-O Systems' Fillet Welder is a battery-operated version of the KBUG-1200. Built-in features include programmable seam and stick welding, digital meter, gear driven and wheels that exceed a 450-degree rating. The power comes from an 18-V battery that can exceed the work time of two shifts. The KBUG-1200 carries the global TUV rating and is available in a 240-V model for the international markets.

Bug-O Systems



Booth No. N4329

MIG GUNS

At this booth, Bernard features semi-automatic MIG guns and consumables, while Tregaskiss showcases its robotic MIG guns, peripherals and consumables. Select products are featured on Miller power sources and robotic welding equipment for static and live demonstrations. New products include the Tough Gun TT3E reamer enhanced with digital Ethernet communications to simplify integration into a digital controls infrastructure and the Tough Gun reamer stand designed for Tough Gun TT3 and Tough Gun TT3E reamer robotic nozzle cleaning stations.



Booth No. N3733

Bernard

Tregaskiss

FILLER METALS

Hobart showcases filler metal solutions for the fabrication and manufacturing industries. Filler metals on display, and those featured in live welding demonstrations on equipment from Miller Electric, have been chosen for their ability to address common welding challenges, while improving productivity, quality and cost savings. Filler metal specialists are available to answer filler metal and process-related questions and to provide product recommendations.



Booth No. N3729

Hobart

PLASMA CUTTING

The Lincoln Electric Co. announces the [Torchmate 4400/4800 CNC plasma cutting system](#) for growing fabrication shops and other small businesses that want to integrate cutting into their operations. The 4400, a 4-ft.-by-4-ft. CNC plasma cutting table, is for users seeking a small table that offers built-in, production-grade components and fits into any small to medium-sized fabrication shop. The 4800, a 4-ft.-by-8-ft. CNC plasma cutting table, offers a larger cutting area that allows users to avoid additional shearing fees from steel suppliers.



Booth No. C29047 and N5200

The Lincoln Electric Co.

WELDER & CONVERTER

Dengensha America introduces its Flexwave capacitive discharge welder and corresponding flexible Flexwave Waveform technology, combining the capabilities of a capacitive discharge welder and a 15,000-Hz bipolar medium frequency converter. Flexwave technology provides DC configuration of weld current values, which makes it easy to set parameters. The technology also provides users of single-phase AC welders the option of replacing their existing controller unit with a Flexwave welder controller, which enables them to use it as a Flexwave welder, as well.



Dengensha America

Booth No. N5922

METAL FINISHING

Pferd Inc. presents products from its metalcutting and finishing product lines, such as files, burs, brushes, grinding and cutting wheels, and power tools with focus on its Polifan-Curve flap discs for rough and finish grinding applications and its thin cut-off wheels. Integrated within the exhibit will be interactive demonstrations on PferdValue, a program addressing increased operator efficiency, health and safety as well as process optimization through PferdErgonomics and PferdEfficiency.



Pferd Inc.

Booth No. N2004

WELDING ROBOT

ABB Robotics introduces IRB 1660ID, a compact robot for arc welding and machine tending applications. Its Integrated DressPack design makes it easier to program and simulate predictable cable movements. The robot features an upper arm with a reach of 1.55 m and a payload of 6 kg. It is able to accommodate heavier weld torches and provides improved wire feeding control near the arc. This, combined with TrueMove technology and the new motion process Accuracy Mode, provides 0.05-mm path repeatability.



ABB Robotics

Booth No. N3918

STICK/TIG WELDING

Fronius USA LLC offers stick and TIG welding in its TransPocket 180 compact, single-phase welder. The digital resonance concept provides faster and more precise control over the welding current. This technology is paired with a durable housing and easy-to-use interface to create the machine. The lightweight and portable welder offers good ignition, less spatter and a highly stable arc and can weld with all electrodes up to 4 mm on a single-phase power supply.



Fronius USA LLC

Booth No. N3904

LASER WELDING HEAD

Laser Mechanisms offers the FiberWeld HR processing head for welding applications with medium- to high-power fiber coupled lasers. The system can be configured with straight or right-angle fiber input camera viewing, wire feed, air knife, weld monitoring, and twin spot and rectangular focusing optics. It consists of the welding head, fiber collimators from 100 mm to 200 mm, focusing lenses from 200 mm to 1,000 mm and internal optics monitoring. The head has a clear aperture of 48 mm and works with fiber-delivered laser systems up to 30 kW.



Laser Mechanisms

Booth No. N4122

TUBE & PIPE TOOLS

Esco Tool offers a range of pneumatic saws and machining tools for preparing pipes for welding. The MillHog APS-438 saws, available in standard and low-radial clearance, can cut tube and pipe up to 60 in. OD and 4.75 in. thick. The MillHog Prepzilla is for beveling 1.575-in. to 8.625-in. OD pipe. Hog Tie boiler tube joint tools align new boiler tube ends with existing tubes in preparation for creating welded tube joints.



Esco Tool

Booth No. C22035

PLASMA CUTTER

Hypertherm Inc. announces the Powermax45 XP plasma cutter. Delivering 6.5 kW of output power, the cutter can cleanly cut material up to 16 mm thick and sever material nearly twice that thickness. The system comes with the Duramax Lock torch, which has a torch disable switch for quick replacement of consumables; a FastConnect torch to quickly switch between different torches; and Smart Sense technology that automatically adjusts gas pressure and flow for optimal performance.



Hypertherm Inc.

Booth No. C27069 and N3724

BRUSHES, ABRASIVES

Weiler Abrasives Group presents its Roughneck Max 4-in. carbon steel and stainless steel brushes with an improved knot design. New Tiger bonded abrasive options include Roughneck combo wheels for switching between cutting and grinding applications on the pipeline, and two Type 28 grinding wheels for hard-to-reach areas such as corners fillets. Tiger X flap discs have a triple-split coat grain anchoring system, dual-flap design and engineered abrasive cloth backing with intermixed ceramic alumina and zirconia alumina grain.



Weiler Abrasives Group

Booth No. N3704

LASER WELDING

IPG Photonics Corp. highlights three systems that demonstrate the FLW-30 wobble head for welding of dissimilar metals and those prone to cracking. The Automated Laser Processing System has a 6-axis robot that will demonstrate stainless steel to copper welding. A larger 8-axis robotic system will show 3-D part welding, while a multi-axis workstation will demonstrate precision cutting and welding.

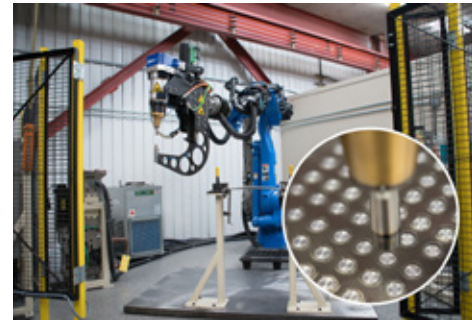


IPG Photonics Corp.

Booth No. N551

ROBOTIC JOINING

Coldwater Machine Co.'s SpotMeld robotic joining system with automated tool change capability enables the joining of aluminum, magnesium, and non-ferrous and dissimilar sheet materials. The system can be mounted on an industrial robot or retrofit for replacement of existing processes such as resistance spot welding, laser welding and riveting. The system is based on refill friction stir spot welding (RFSSW) technology, which uses rotational friction to heat the materials along with pressure to forge together the parts using wear-resistant tooling to join two or more surfaces.



Coldwater Machine Co.

Booth No. C20024

TUNGSTEN GRINDER

The Piranha III tungsten grinder from Diamond Ground Products now features a sliding dust shield for dust containment, integrated receptacle area for handling electrodes, recessed handle, on/off switch with LED light for improved display and lightened chassis for reduced weight. The grinder accommodates tungsten electrode diameters of 0.040 in., 1/16 in., 3/32 in., 1/8 in., 5/32 in. and 3/16 in. Included angle range is from 10 degrees to 60 degrees. Tungsten as short as 1 3/4 in. can be sharpened.



Diamond Ground Products

Booth No. N5904

CNC CUTTING

Praxair Inc.'s ProStar PRS900 robotic cutting system can help customers lower equipment investment, cut labor expenses and minimize operating costs, all while improving product quality and productivity. The system's modular design allows operators to use one machine to cut structural tube and beam as well as 2-D plate and domes. A web-based operator interface allows the cutting system to perform 3-D movement and create, share and acquire evolving cutting parameters online for flexibility.



Praxair Inc.

Booth No. N3318

OSCILLATOR

Gullco International Ltd.'s portable OSC-PR-12 heavy-duty remote control oscillator provides automation of welding applications. Mounted on a Kat travel carriage, the oscillator imparts pendulum, tangential or step motion to the welding gun with adjustable stroke widths, speeds and dwell times. Also, a range of weld patterns can be produced. The unit minimizes weld defects such as poor penetration, incomplete fusion, overlap and undercut. Up to 10 weld programs can be produced and stored.



Gullco International Ltd.

Booth No. N5020

LASER WELDING

LaserStar Technologies Corp.'s laser welding systems are for a range of metal joining, complex assembly, automation and repair applications for manufacturers that process large or small part quantities. The systems reduce cycle times, produce precision parts and achieve increased productivity while lowering cost per unit. Common industry applications include spot welding, seam welding, mold repair welding, micro welding and battery welding in the medical device, computer, aerospace, electronics and automotive industries.



LaserStar Technologies Corp.

Booth No. N5729

MAGNETIC TOOLING

Industrial Magnetics Inc. showcases Transporter LP magnetic end-of-arm tooling for magnetically transferring metal blanks, stampings and parts in automated station-to-station, press-to-press transfer and robotic pick-and-place applications. Rare Earth magnets positively hold the parts during transfer and offer options for pick-up points on stamped, perforated and odd-shaped parts. Available in five configurations, the magnets are for applications in the appliance, automotive and office furniture industries as well as other material handling applications.



Industrial Magnetics Inc.

Booth No. C19034

PLASMA CUTTING

Messer Cutting Systems Inc. highlights the MetalMaster Xcel plasma cutting machine, which performs HPR400XD plasma bevel cutting. The MetalMaster 2.0 has traverse speeds of 3,000 ipm, a robust design and high acceleration drives. The 5-ft.-by-10-ft. unitized cutting machine and table features a Powermax125 plasma torch for straight plasma cutting.



Messer Cutting Systems Inc.

Booth No. C33085

PLASMA CUTTING

Soitaab USA's Plasma Red cutting system features dual-side drives that maintain position accuracy and cut tolerances, while the standalone table offers the flexibility of a downdraft or water table design. The compact bevel head is for use on the smallest plasma table without a heavy and wide gantry frame. The plasma torch comes with breakaway anti-collision capability and touch sensing arc voltage height control and ohmic sensing for thin materials.



Soitaab USA

Booth No. C51093

TIG WELDING

CK Worldwide Inc.'s MT200-AC/DC TIG welding system features two dynamic modes for TIG and stick welding. Delivering arc strikes as low as 5 amps makes it suitable for thin material, while also maintaining the same power and performance characteristics of larger welding machines. The system includes the MT200-AC/DC, CK-17 Flex-Head torch with Super-Flex cable and Dinse connector, AK-3 accessory kit, foot pedal amperage control, ground clamp, single-flow regulator, and 220-V to 115-V power adapter.



CK Worldwide Inc.

Booth No. N4520

STUD WELDING

Nelson Stud Welding introduces Pinnacle NCD+ 500b, a cordless battery-powered stud welder that delivers thousands of welds on a single battery charge. The 18-lb. machine has a high-capacity rechargeable lithium ion battery, 31 ft. of welding cable for a large diameter welding area, microprocessor controlled safety and diagnostic functions. It features the company's graphical gun display and is compatible with its other products and accessories.



Nelson Stud Welding

Booth No. N5911

ARC WELDING WORKCELL

Yaskawa Motoman's ArcWorld C-30 workcell features one station with a welding table suitable for customized part fixtures. The workcell has a 6-axis MA1440 arc welding robot, DX200 controller with menu-driven arc welding application software, integrated welding package, operator station, pneumatic powered slide-up doors for improved ergonomics and a safety environment that complies with U.S. and Canadian safety standards. The optional Kinetiq Teaching, a direct teaching option for enhanced intuition and reduced programming time, is available.



Yaskawa Motoman

Booth No. N2718

DUST COLLECTOR

Clarcor Industrial Air's DustHog Plug-n-Play cartridge dust collector provides a clean air solution for manufacturing processes, including welding, robotic weld cells, and plasma and laser cutting. It is powered with the ProTura DH nanofiber filter media, which is capable of capturing respirable, submicron particulates. The filters feature surface loading technology that reduces compressed air consumption during filter cleaning.



Clarcor Industrial Air

Booth No. C22073

HOOKS & RACKS

Mighty Hook features its line of standard hooks and racks, the Angle Pivot tooling system and custom material handling carts. The Angle Pivot automatically rotates parts or racks mechanically on inclines and declines, which allows for close spacing and maximum parts or racks to be coated. The tooling can increase throughput capacity by 20 to 50 percent. Beyond the standard products offered, custom material handling carts and custom hanging solutions are also available.



Mighty Hook

Booth No. C47030

TRUNNION & WELDING GROUND

ALM Positioners Inc.'s powered trunnion set with powered headstock, slew bearing tailstock and offset motor is available with pivot or fixed head and has a maximum radial load of 8,000 lbs. Also available is a cantilever trunnion with powered headstock that has a maximum radial load of 2,000 lbs. to 21,600 lbs. Another product is the rotary contact welding ground that eliminates the need to ground directly to the tool or part. Available in 400-amp and 800-amp welding ground options, the contact accepts standard 4/0 cable lugs.



ALM Positioners Inc.

Booth No. N1814

GRINDING DISCS

Rex-Cut Abrasives introduces Fusion Quick Change Discs, which are 3-in., layered quick-change flap discs that grind light weld seams and create a consistent finish in a controlled manner. They combine a coated abrasive layer with a surface conditioning layer into one interleaf disc, allowing users to eliminate steps when finishing TIG welds on stainless steel, aluminum, soft metals and special alloys. The discs are for finishing welded railings, angles and tothing and break edges; removing milling lines; and creating an even finish.



Rex-Cut Abrasives

Booth No. N5008

FUME EXTRACTOR

RoboVent's Extractor integrates a welding gun with a source extraction system to capture fumes as soon as they are generated. The gun has a conical suction head, welding tip and gas outlet for the shielding gas to promote good visibility and reachability of the workpiece. A ball-and-socket joint between the torch and hoses improves maneuverability. The gun is paired with the FlexPro Hi-Vac filtration system to collect and filter fumes. The gun is for welding processes that employ shielding gases.

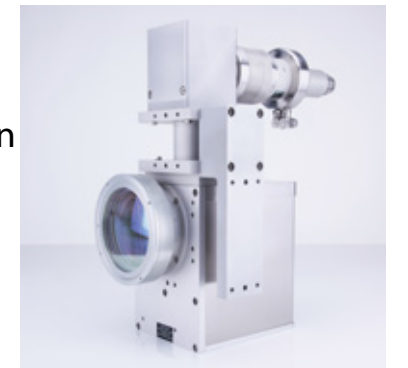


RoboVent

Booth No. N5517

LASER WELDING

Blackbird Robotics' IntelliScan FT, with a 30-mm aperture, is for welding 2-D applications and integration into robot and gantry systems. The scan system is for welding flat components and handles laser powers up to 8 kW. The scan head's compact design and optionally straight or angled collimator implementations facilitate straightforward integration in equipment where space is tight. At the system's core are galvanometer drives with mirrors specially optimized for welding applications.



Blackbird Robotics

Booth No. N1136

GRINDING WHEELS

Saint-Gobain Abrasives showcases Norton Quantum3 (NQ3) depressed center grinding wheels that have a proprietary grain and tough bond system. Test results conducted revealed that NQ3 removed almost twice the amount of carbon steel at 5-min. intervals as competitive wheels. The wheels are offered in 12 Type 27 all-purpose grinding application SKUs, one Type 28 all-purpose SKU and two Type 27 SKUs for foundry applications. Sizes range from 4 in. by 1/4 in. by 3/8 in. to 9 in. by 1/4 in. to 7/8 in.



Saint-Gobain Abrasives

Booth No. N4104

DUST COLLECTOR

Imperial Systems Inc's Cmaxx cartridge-based dust collector has a CrownTech domed roof with no bolt holes. This feature allows the collector to hold a 4PSI vessel strength rating. The collector with the domed roof has been proven to stop a flame front, meaning the collector is rated to withstand and control an explosion. The domed roof also deflects rain, snow, dust and dirt.

Imperial Systems Inc.



Booth No. N1825

LIFTING MAGNETS

Eriez SafeHold permanent lifting magnets can lift and transfer steel and iron without slings, hooks or cables. They are available in several models and with lifting capacities up to 10,000 lbs. The APL series is for handling steel where access is limited. The EPL series can carry semi-finished products such as machine parts, press molds and steel plates. The MPL series handles round and flat materials and has a motorized actuator. The RPL series has a two-pole design and can also handle round and flat materials.

Eriez

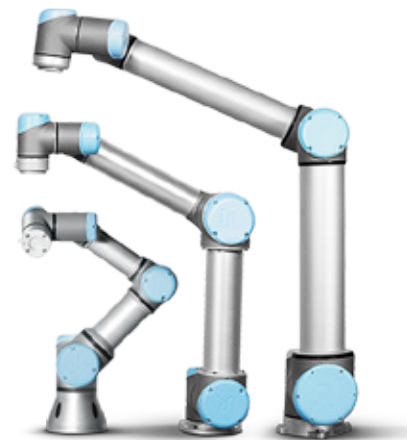


Booth No. C20019

COLLABORATIVE ROBOTS

Universal Robots produces lightweight collaborative robot arms for a variety of manufacturing tasks, including quality and inspection solutions. At Fabtech, the UR robots will be exhibited in an application mounted with a scanner that provides metrology data on prototypes, comparing product deviations to technical drawings. The user-friendly robots will also be showcased in welding and material handling applications.

Universal Robots



Booth No. N1804

Three Important Reasons To Visit Booth #N5922

1 Our Upper Electrode Feeder Reduces Cycle Times. See a Live Demo!



2 Minimize Heat Transfer & Distortion With Breakthrough Flexwave Technology. See a Live Demo!



3 Check Out Our Newest & Most Compact Capacitor Discharge Welder Yet!



DG DENGSHA AMERICA
Engineering Resistance Welding Value★

In USA Call: 440-439-8081
Ask for Steve Andrassy

We plan to showcase even more new products at Fabtech 2016. Be sure to put the Dengsha booth on your priority list!

SADDLE MACHINES

Mathey Dearman's CNC saddle machines provide field welders with CNC accuracy and flexibility in a step-by-step logical format. Welders use a computer interface and on-screen selection guide to create a variety of straight cuts, miters, saddles, holes and special shapes. Models are available to handle pipe sizes from 1 1/2 in. to 12 in., cutting with oxyfuel or plasma machine torches. The machines require a 115-V or 230-V electrical connection, which means they can be powered by a welding machine. The unit's compact size is good for tight field locations.

Mathey Dearman



Booth No. N3304