



American Welding Society®
DETROIT SECTION



MARCH 2025 Inside This Issue

- 1 MARCH 13TH TECHNICAL MEETING AT AHB TOOLING & MACHINERY, 15300 MARTIN RD., ROSEVILLE
- 1 E-BULLETIN CONTRIBUTORS
- 2 CHAIRMAN'S MESSAGE
- 2 2024-25 PATRONS
- 4 OUR MISSION
- 5 CWI SEMINAR & EXAM INFO
- 7 2025 EXCELLENCE IN WELDING AWARDS CAMPAIGN BEGINS
- 7 SAVE THE DATE FOR THE ANNUAL GOLF OUTING
- 9 CAREER & HIRING FAIR MARCH 10TH
- 11 LADIES NIGHT GALA
- 13 SPORTING CLAYS FUNDRAISER JUNE 13TH

SAVE THE DATE — AT A GLANCE —

- March 5-7:** WEMCO Annual Meeting
- March 10:** Career & Hiring Fair
- April 12:** Ladies Night
- May 4-5:** CWI Seminar
- May 10:** CWI Exam
- June 13:** Sporting Clays Fundraiser
- Sept. 8-11:** FABTECH 2025 Chicago
- Sept. 25:** Annual Golf Outing

Check out the latest videos published by the American Welding Society on its YouTube page.

AWS Technical Nights are open to everyone! We encourage that members bring students and non-members to learn more about our organization and industry.



Affiliated With

AWS-Detroit Technical Meeting

PATRONS NIGHT

Thursday, March 13, 2025 • 5:30 to-8:00pm

AHB Tooling & Machinery

15300 Martin Rd., Roseville, MI 48066

To RSVP, please visit: www.eventsquid.com/event/27609



Please join us on Thursday, March 13, 2025, at 5:30 pm, for another AWS Technical Meeting hosted by AHB Tooling & Machinery, Roseville, Michigan. The March 13th meeting, in collaboration with Weld Systems Integrators (WSI), will feature a presentation on Diffusion Welding, sometimes referred to as diffusion bonding, by Filippo Cortiglioni, Area Sales Manager USA/INDIA at TECNA. This presentation will cover the diffusion bonding process that creates a permanent bond between metal surfaces without melting by applying force and heat for an extended period. The diffusion welding process is ideal for bonding large-scale buss bars used in EV automotive, EV truck, train locomotive, power generation, and renewable energy applications.

In addition to the Diffusion Welding presentation, AHB, Weld Systems Integrators, and TECNA will showcase several innovative new products. This includes a Yaskawa Motoman Robotics America robot using a TECNA 160 kVA MFDC heavy-duty weld gun (the first single transformer spot gun for Aluminum), the TECNA 3680Si portable industrial welding station with SMART WELD function, where the machine automatically recognizes thickness and material, and a first look at the TECNA SENSUM – 6158NX / 486, a 200 kVA MFDC press-type spot welder. SENSUM is a groundbreaking welding technology, allowing a complete weld cycle control plotting function integrated directly into the inverter, giving users unmatched precision and full, real-time feedback both onsite and remotely.

eBulletin Contributors

(Emails linked where available.)

CHAIRMAN
Russ Webster

TREASURER
Andre Young

SECRETARY
Elizabeth Lakarczyk

FIRST VICE CHAIR
Donnie Crist

1ST ASSISTANT TO THE CHAIR
Stephen Gucciardo

2ND ASSISTANT TO THE CHAIR
Robert Watson

3RD ASSISTANT TO THE CHAIR
Erin Lalinsky

EBULLETIN EDITOR
Nicholas Berchert

WEBMASTER
Christian Megna

ADVERTISING
Brian Pearch

HOTLINE COORDINATOR
Brandon Fuson

TECH NIGHT MEETING RESERVATIONS
George Meeker



Chairman's Message
Russ Webster

Hello AWS – Detroit Members and Friends,

February is nearly behind us and it's been a great 2025 so far for AWS Detroit. I want to start by thanking Ram Solutions and Staubli for hosting what I'm sure will be an excellent event with a focus on robotic tool changers and other automation applications in the welding industry. That event will be a great opportunity to network with your fellow welding professionals while interacting with the latest in automation technology.

AWS Detroit has some great opportunities available for members to develop themselves professionally in the coming months. AWS Detroit will be hosting the AWS CWI Seminar on May 4th-9th, if you missed the February 17th deadline to apply for a free seat in that seminar, another opportunity will come in the fall, keep an eye on your e-mail!

We also are accepting nominations for people interested in serving on the AWS Detroit Executive committee. If you've ever wondered what it's like to run this section and would like to try participating, please let us know by reaching out to myself at russ.webster@gm.com. People who are elected to participate will meet with the e-board once a month in person to network and update the team on their activities. Deadline for nominations is fast approaching so reach out ASAP.

Finally, we still have a career fair coming up in March. Monday March 10th, from 6 to 8pm at Harrison Hall at the Hawk, there will be a skilled trades career fair, please stop by if you're looking for a job or career change.



Thank you for your support!

ONE HUNDRED PERCENT

of the Patron's Fund Donations are directed to scholarships for students who are pursuing careers in Welding Engineering and Welding Technology.

To become a Patron, contact Steve Gucciardo,
AWS Detroit Section-Patron's Committee Chair,
810-623-6508 or email gucciardos@shapecorp.com

Patrons 2024-25

ARO Welding Technologies, Inc.

CenterLine (Windsor) Ltd.

Changer & Dresser Corp.

Don Decorte - DTS Technical Services

Elizabeth Lekarczyk

Forrest Lissner

Fronius USA, LLC

FUSION Welding Solutions

Jack and Sons Welding and Fabricating

LeTourneau University Welding Engineering Alumni

Lube Power, Inc.

Luvata

Matuschek Welding Products, Inc.

Milco Manufacturing, Inc.

Obara Corp. USA

Ram Solutions, Inc.

RoMan Manufacturing

SDK Engineering

Stephen Gucciardo

The Ohio State University Welding Engineering Alumni

United Technical Inc.

Employees of United Technical, Inc.

United Technical Solutions

Vector NDT

Welform Electrodes, Inc.

WSI, Weld Systems Integrators, Inc.

Ask the Welding Engineer

By Donald F. Maatz, Jr.

Q: “What options exist for evaluating the quality of a weld nut, other than push-off, and how viable are they?”

A: “Our previous columns (ATWE Nov-24 thru Jan-25) started a broad look at projection welding (PW). As stated in these earlier submissions, while the initial question related to the important topic of PW quality, it will take us some time to get there as, from my perspective, we need to establish a few important things about the PW process. To date we have touched on a few of the challenges. These would include the varied material coatings, gauges and substrate strengths one is asked to weld on, plus the unique nut designs the welding industry must deal with. Keeping the aforementioned in mind, it is time to further our discussion of how to address the actual welding of these forged/coined fasteners. And to do that, we need to talk about the unique nature of a PW weld schedule, and the equipment needed to make it happen.

Our initial discussion of a PW schedule in our previous column (ATWE Jan-25) described the lack of an available industry consensus, specifically, the absence of a standardized welding schedule similar to what is available from the resistance spot welding side of the industry. There are several reasons for this. Key among them is the fact that available data is typically based on a particular fastener being welded to a specific base material.

The issue with part-specific data is that it is not readily accessible to the resistance welding community. As a result, individuals on the plant floor attempting to weld a forged projection fastener do not have the benefit of the good ‘starting point’ that is often afforded by spot welding schedules. This lack of an established set of weld schedule guidelines targeting forged or coined projection fasteners forces the tooling designers to either make educated guesses as to the welding schedule parameters required to weld a particular fastener and sheetmetal combination, or to incur the additional time and expense of developing a unique welding lobe curve. The end result is the tooling design may or may not be capable of making a quality, repeatable projection weld.

The primary reason for the difficulty in finding a solution to the lack of a standard-

ized projection welding schedule is the large number of variables that must be accounted for. In addition to the items discussed to date, the variables associated with the fastener also must be considered included. These include the material and projection volume, geometry and number. As an example of this complexity, I only needed to open my desk drawer to find several different types of weld nuts. My guess is that many other folks in the resistance welding community have a similar collection (see Figure-1). All of the above-mentioned items are known within the resistance welding community; however, a solution to this issue has so far been elusive and I will not attempt to offer one here.

That all being said, the following guidelines should help with the selection of a forged fastener projection welding schedule and any subsequent tooling component sizing that you may need to perform.

- **The required welding time will be shorter than you think:** While it is necessary for the required weld time in a spot weld to increase as a result of an increase in material gauge, the same relationship does not necessarily hold true with the projection welding of forged fasteners. For applications from M6 thru M12, with three properly sized projections, any weld time in excess of 80-140 ms should be viewed with suspicion. Those fasteners designed with significantly larger projections for much thicker substrates will require more weld time but these are very application specific.*

- **The required weld force will be higher than you think:** The high weld force associated with projection welding is required for a few reasons. These include the proper contact of the projections to the substrate prior to the initiation of current flow (crucial, especially if welding

Figure-1
Various weld nuts



anything other than a three projection design) and the necessary forging pressure once the current has stopped. Those machines that have poor follow-up may require even more weld force to achieve a successful weld. The idea of the need for higher force values makes even more sense when you realize that the force applied must pass through each projection and an increase in their number drops the pressure that each one feels.

- **The required weld current will be much higher than you think:** This is one area where you can encounter real issues. It is usually not too hard to turn down the weld time, and it may be a bit harder to find additional weld force, but tell someone their expensive and long-lead time transformer and/or weld control is not sized properly and stand by for some very long faces. The reasons can be many; the primary bus does not have the capacity to support the turns-ratio of their secondary circuit, the inverter does not provide enough primary capacity for their MFDC transformer, the list goes on. To add insult to injury, when folks make a mistake in this area, it is often a large one. We have seen applications where testing revealed an excellent projection weld could be obtained with 40 kA and their tooling was capable of only 20 kA. A difference this large often does not leave open the door to any kind of weld schedule compromise.

Despite the challenges mentioned above, the projection welding of forged or coined fasteners can be a very robust and capable process, if the basic rules are known and

Continued on page 4

Ask The Welding Engineer *continued page 3*

followed. That being said, due caution must be exercised, especially in the initial development of a new process, to ensure that capable equipment is procured lest you find yourself in a situation where you are forced into trying to achieve a weld under less than optimal conditions.

So in a nutshell what we have to work with has not changed: Weld nuts that are varied in their design and application. I very much welcome any additional thoughts and ideas on this important topic.”

**As the market has clearly spoken with regard to AC vs. MFDC for the welding of forged/coined projection fasteners (think near 100% MFDC), we have decided to use just milliseconds (ms) for our weld time. Figure it is time I got on board. Have I ever mentioned when I started in the business, I used AC weld controls with ignitron tubes? Perhaps more than once, but I digress...*

REFERENCES:

- 1) Resistance Welding Manual, revised 4th Edition
- 2) AWS C1.1M/C1.1:2019, Recommended Practices for Resistance Welding

If you have more questions about this topic, contact:

DON MAATZ
R&E Automated Systems
70701 Powell Road
Bruce Township, MI 48065
(586) 228-1900 – Office
dmaat@reautomated.com

Donald F. Maatz, Jr. is with R&E Automated Systems. He is past-chairman of the AWS-Detroit Section, serves on the D8 and D8.9 Automotive Welding Committees, is chair of the D8D, and an advisor to the C1 Resistance Welding Committee, is an AWS endorsed CWI and an instructor for the RWMA School. He is a graduate of Ohio State with a BS in Welding Engineering.



Lincoln Electric is the **world leader** in the design, development and manufacture of arc welding products, robotic arc welding systems, plasma and oxy-fuel cutting equipment, weld fume removal, and brazing and soldering alloys.

Questions? Contact: Ryan Cooper, Great Lakes Regional Sales Manager
Phone: 248-828-5048 | Email: Ryan_Cooper@lincolnelectric.com

AR23-14 | ©2023 Lincoln Global, Inc. All Rights Reserved.

RESISTANCE WELDING TOTAL SOLUTION

Dengensha brings innovative welding solutions, state-of-the-art equipment, and world-class service which includes:



- Troubleshooting and Repairs
- Rebuilds
- Testing and Training Lab
- On-Site or Online Training
- Customizable Courses

DG DENGENSHA AMERICA
Global Leader in Resistance Welding

SINCE 1935

dengensha.com
440-439-8081
Sales@dengensha.com

Our Mission is to advance the science, technology and application of welding and allied joining and cutting processes worldwide, including brazing, soldering and thermal spraying. AWS Detroit provides support for the industry in many ways, including:

- Institutional Grants (endowment based);
- Scholarships through Application (endowment based);
- Scholarships through aptitude (HSWC);
- Vocational Support (case by case but budgeted each year), Institution (e.g. supply gas and materials), Local Contest (e.g. travel expense), International Contest (e.g. travel expense);
- Student Memberships (evaluated each year);
- Student Chapter (evaluated each year);
- Technical and Educational Opportunities.

LUVATA



Ask us about the difference a Luvata weld can make

Manufacturing welding solutions including Nitrode®, A-Trode®, H-Trode®, Z-Trode®, Cupal®, Luvaweld® brazing wire, MIG contact tips and projection welding electrodes.

Luvata Ohio, Inc.
1376 Pittsburgh Drive
Delaware, Ohio 43015
Phone: +1 740 363 1981
www.luvata.com/welding

A Group Company of MITSUBISHI MATERIALS

TECNA[®] USA

Resistance Welding Systems & Balancers

**the most complete range of
spot welding robot guns for the industrial sector**



INDUSTRIAL RESISTANCE WELDING SYSTEMS
CAR BODY REPAIR TECHNOLOGIES
BALANCERS & BOWDEN RETRACTORS



American Welding Society – Detroit Section Seminar Information

DATES

CWI Seminar:

May 4 – May 9, 2025

Exam:

May 10, 2025

LOCATION

Detroit Metro Airport Marriott
30559 Flynn Dr
Romulus, MI 48174

RoMan[®] MANUFACTURING "THE POWER TO TRANSFORM"

RoMan is one of the world's leading providers of Resistance Welding Transformers and Power Source solutions for multiple industries. Combining unparalleled knowledge and expertise with innovative technology, we deliver ready to use products to leading companies throughout the world.



RoMan TDC - 5998B

- | New modular primary - field changeable from RobiFix to Hardwire
- | Our first available product with RobiFix and dual secondary voltages 9V/13V



RoMan TDC - 7537

- | High-capacity size 6 rectifier and 25KVA transformer
- | 13V/17.5V secondary taps cover a wide range of applications including aluminum spot welding and Fast Rise projection welding

For more information on these products and all of RoMan's welding solutions, please contact Donnie Crist.

dcrist@romanmfg.com
810.217.9897

Grand Rapids, MI | 616.530.8641 | www.romanmfg.com



The most reliable, easy-to-use Gun Changer. Ever.

A more reliable fail-safe.

A patented "springless" mechanical fail-safe is guaranteed to work, even with loss of air pressure.

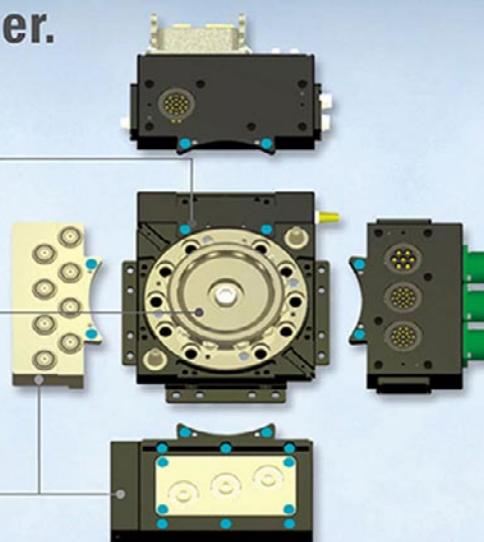
A more reliable locking mechanism.

7,000 pounds of locking force guarantees that signals pass flawlessly, even with heavy accelerations and payloads.

A more flexible utility solution.

Widest choice of modules (power, fluid/air, signal, and more) with common mounting features for greater flexibility.

ROBOTIC END EFFECTORS



With patented advances in the locking mechanism and failsafe, and new flexible module mounting and integrated robot mounting patterns, we've created the most reliable, easy-to-use Welding Gun Changers. Ever.

The QC-210 Welding Gun Changer. The new standard from ATI.



Engineered Products for Robotic Productivity

4577 S. Lapeer Road, Suite I
Orion Township, MI 48359
248.276.0502
www.ati-ia.com/dstc



Kentucky 859-283-5490
Michigan 586-755-1250



Obara USA has established itself as a premier supplier of high quality welding equipment and services. With our worldwide resources for equipment, research and development, and manufacturing, Obara USA can meet any project requirements, regardless of size or scope.

www.obarausa.com



SDK ENGINEERING, LLC

WELD PROCESSING SUPPORT

- Joining Consultants
- Long Term Onsite Engineering Support Includes
 - RSW/LASER/GMAW(CWI)
 - Alt Joining Processes
 - Self Piercing Rivets
 - FDS
 - Ultrasonic Inspection
 - Tessons Setup/Training
 - Destruct Services
- MEXICAN AFFILIATE COMPANY
NISESA GROUP S DE RL DE CV

All Facets of Project Management, Weld Processing, Robot Programming, Equipment Integration, Field Service, & Troubleshooting.

www.sdkeng.com

2025 Excellence in Welding Awards Campaign is Underway!

To nominate yourself or someone you know, [CLICK HERE](#).

2024's recipient in the Individual category is featured as a speaker at this year's WEMCO Annual Meeting in Fort Myers (March 5-7).

Registration for the WEMCO Annual Meeting remains open through this month, so if you've had it with Winter and need an escape then consider heading South for a few days to take-in a dynamic program and mingle with the leaders of our industry!

At this year's FABTECH show in Chicago, recipients and their nominators from 2025 and years past will be invited to attend a special event to occur on stage at the FABTECH Theater! More news on that will be viewable in the coming weeks.

For now, please consider a nomination for a person or organization in one of 9 categories. If you have an existing nomination but would like to add-on to what's already stored, please feel free to simply edit that nomination unless you wish to begin the process anew.

WEMCO and the AWS Foundation are excited about returning to FABTECH Chicago! If you're reading this then we hope to see you there!

For assistance, please contact Adrian Bustillo, WEMCO Committee Secretary: P: 786-937-9595 | E: abustillo@aws.org

The annual **Excellence in Welding Awards**, created by WEMCO, honor individuals and organizations that elevate the image of welding and bolster the industry.

Celebrating dedication to enhancing welding's reputation within communities, the awards span nine categories:

- Individual
- Educator
- Educational Facility
- Small Business
- Large Business
- Distributor
- AWS Section
- Media
- Veterans

Nominees are put forward by industry peers, with winners chosen by the Excellence in Welding Committee. Awardees are celebrated during the Excellence in Welding Awards Ceremony at FABTECH. Nominations are open until June 28th, so act swiftly to ensure your deserving candidates are considered. Don't miss this opportunity to shine a spotlight on those who make a difference! [CLICK HERE](#) for the Award Nomination Portal.



American Welding Society Annual Golf Outing

Save  Date

—September 25th, 2025—



18 Hole—4 Person Scramble Format

Kurt VanDonkelaar—kvandonkelaar@romanmfg.com



American Welding Society
DETROIT - SECTION 011



Open Range—7:30am

Registration—8:00am

Shotgun Start—9:00am



RAM SOLUTIONS, LLC

AUTOMATIONS SOLUTIONS PROVIDER

PARTNERS



Robot Guidance, Bin Picking, Flexible Inspection and Industrial System Communication



Tip Dressing and Tip Changing Technologies



Data Acquisition Tool Enabling Monitoring of Process and Equipment's Operating Conditions



Pneumatic Components, Valves, Mechanical Indexing Systems, and Semiconductor Products



Vacuum Automation Technology



Fittings and Multi-Line Connectors



High-End Stainless Steel Pneumatic Valves



Crane Technology and Ergonomic Lifting Products



Cables, Wires, Media Technology, Cable Accessories, Data, Network & Business Technology



Power Supplies, Control Interfaces, Cables/Connectors, and IO Systems



Proteus WeldSaver™ - Leading Water Safety Device For Flow Control & Leak Detection



Autonomous Mobile Robots (AMRs) and Accessories for Internal Material Transportation



Robotic Tool-Changing Systems



Pneumatic, Mechanical, Electrical, and Modular Tooling; Clamps, Pivots, Valves, Grippers, Fittings



Ultrasonic Inspection Device



Smart Sensor and Image Processing Technologies

CONTACT US

1904 Woodslee Drive | Troy, MI 4808
248-299-0525 phone | 248-299-0528 fax



**CAREER CHANGERS,
STUDENTS, PARENTS,
AND VETERANS
ALL ARE WELCOME!**

Farmington/Farmington Hills
Commission on Children,
Youth & Families

CAREER & HIRING FAIR

**Monday, March 10th
6 pm – 8 pm**

Harrison Hall at The Hawk
29995 W 12 Mile Rd, Farmington Hills

**WE INVITE YOU TO THINK OUTSIDE
THE FOUR-YEAR DEGREE BOX AND
LEARN ABOUT IN-DEMAND AND
HIGH-PAYING JOBS AND
EDUCATIONAL OPPORTUNITIES.**

- bring your resume & be interviewed on the spot for select jobs
- learn winning tips on getting hired

Questions? Email nordhaust@gmail.com

CUSTOM PRODUCTS, REPLACEMENT PARTS, COMPLETE BUILDS

ANY GLOBAL SPEC...
WHEN YOU NEED IT.CUSTOM
ELECTRODES**WELFORM
ELECTRODES INC.**2147 Kenney
Warren, Michigan 48091

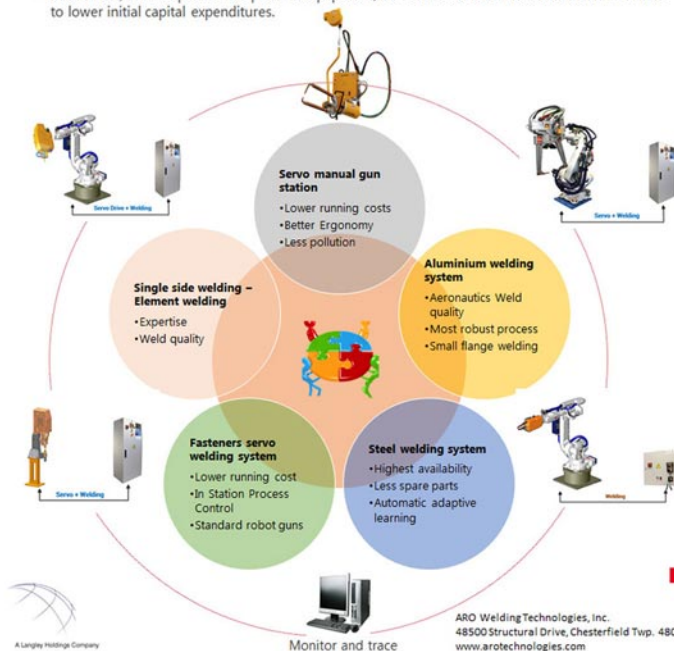
www.welform.com

P: (586) 755-1184
F: (586) 755-5639

WELDING TECHNOLOGIES

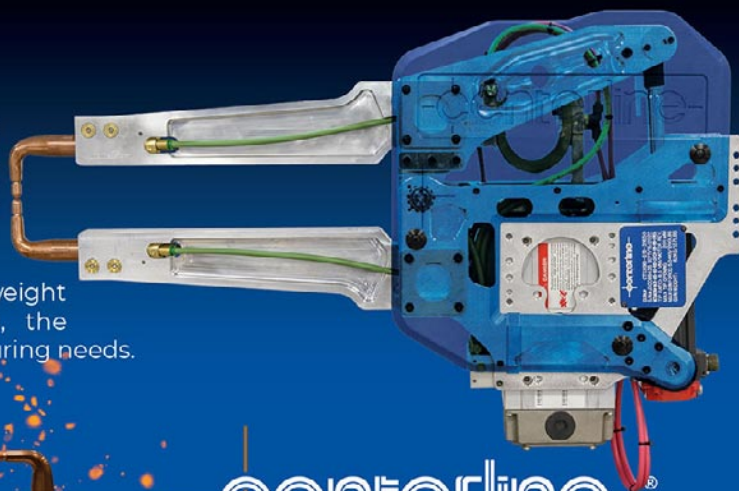
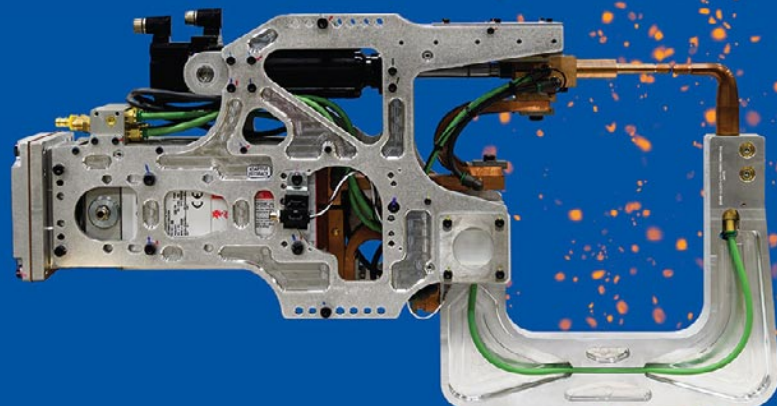
**One stop shopping
All Servo solutions****Why mix and match components of your Resistance welding process?**

- One global, solid, responsible supplier
 - Guaranteed lowest running costs
 - Top Welding quality
 - Lowest carbon foot print
 - Less air and noise pollution
 - Best flexibility and equipment re-use potential
 - Homogeneous supervisory network
 - Expert assistance through product life
- In addition, for comprehensive process equipment, ARO offers bundle discounts as an incentive to lower initial capital expenditures.

**FlexGun™ Ultra**
Spot Welding Guns

The **FlexGun™ Ultra** and **Ultra HC** (High Capacity) are lightweight weld guns that are part of **CenterLine's FlexGun™** product family. These are ideal for use on robot models with payloads starting at 80kg and for applications requiring 2.5 to 8.9kN of weld force.

With integrated robot mounting, superior strength-to-weight ratio, compact size, and true symmetrical design, the **FlexGun™ Ultra** is ideal for your high-density manufacturing needs.

**centerline****Want To Learn More?**

Contact **CenterLine** to learn more about the **FlexGun™** product family.

800-820-6977

www.cntline.com

2025 Ladies Night Scholarship Gala Detroit Section

WHERE: The Westin Southfield Detroit (Atrium) **•NEW VENUE•**

WHEN: Saturday, April 12th, 2025 **•SAVE THE DATE•**



For more information, contact awsdetreregistration@awsdetroit.org

Cocktails	6:00 pm - 7:00 pm
Dinner and Program	7:00 pm - 9:30 pm
Afterglow Dancing	9:30 - 12:00 am

For overnight reservations call 248.827.4000 or click [here](#) to book online

Full Freedom

to unleash your
welding potential



Brighton, MI

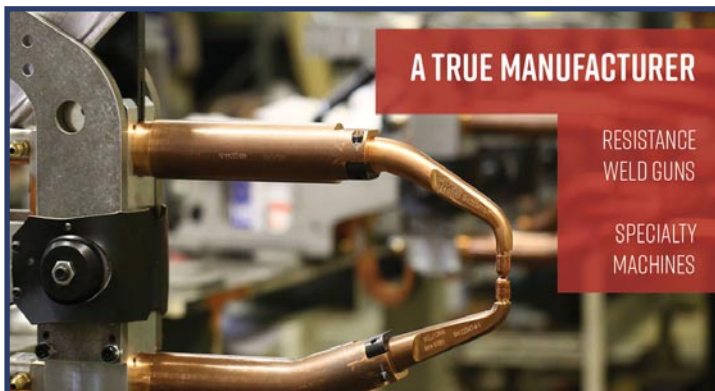
sales.northeast@fronius.com (810) 844-2800



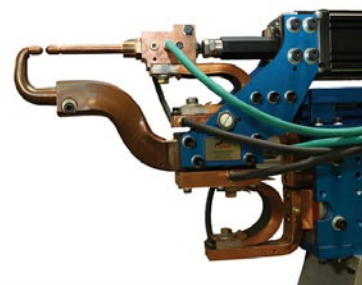
A TRUE MANUFACTURER

RESISTANCE
WELD GUNS

SPECIALTY
MACHINES



MILCO
MANUFACTURING



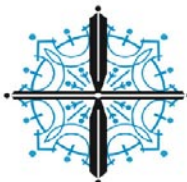
COR-MET®

**SPECIALTY CORED WIRE
COATED WELDING ELECTRODES
TOOL STEEL MIG & TIG**

Tel: 810-227-3251
Fax: 810-227-9266

12500 Grand River Road
Brighton, MI 48116 U.S.A.
www.cor-met.com

2147 East Ten Mile Phone: (586) 755-7320
Warren, Michigan 48091 Fax: (586) 755-7442
www.milcomfg.com



T. J. SNOW

INDUSTRIAL 
WATER CHILLER
A Division of T. J. Snow



RESISTANCE WELDING

One-Spot-Shop

MACHINERY | SUPPLIES | SERVICE | TRAINING



CONTACT US TODAY!

(423) 894-6234 | www.tjsnow.com

Welding Solutions for Fabrication & Manufacturing



- PQR, WPS & WQTR
- Process Optimization, Specification & Development: GMAW, GTAW, RW, Etc.
- Applied Research
- Design of Experiments
- Weld Cross-Sections
- Teardowns



- AWS Certified Educators & Inspectors
- Custom Corporate Training
- Learning Center
- Welding Simulator
- Robotic Training Cells
- Real-time Welding Camera



Small Business

 **WEMCO**
An Association of Welding Manufacturers



ATF
ACCREDITED TEST FACILITY
WELDER TESTING



 **Nadcap**
Administered by PRI
ACCREDITED
Materials Testing Laboratories

1081 E North Territorial Rd
Whitmore Lake MI 48489
248-667-9185
info@unitedtech1.com
<http://www.unitedtech1.com>

AWS Detroit Section Presents:



SPORTING CLAYS FUNDRAISER



Friday June 13th @ 10 am

Huron Pointe Sportsmen Association, Lenox MI

\$250 per person Includes:

50 rounds of sporting clays, 25 rounds of 5 stand, 12 ga ammunition, heavy BBQ lunch, 2 drink tickets (cash bar after), commemorative patch and sticker. Shooting done in teams of four

Beginners are welcome!
20" Minimum barrel length
Prizes for top shooters/teams

Mulligans and additional shooting available
for purchase



RSVP: awsclays@gmail.com



Opportunities for corporate sponsorship available

All proceeds go to AWS Detroit Scholarship Fund