



# 2026 MEMBERSHIP DIRECTORY

Joining to Promote  
Resistance Welding Excellence



**NSRW**

*Recasting the Mold  
for Resistance  
Welding Suppliers  
Since 1988*

**Copper Alloys  
Refractory Metals  
Standard & Custom Tooling  
Machine Build  
24/7 Service & Support**

**NSRW**

*The Resistance Welding Specialist*

**701 Thames Court Pelham, AL 35124  
1.800.933.NSRW (6779)**

**Phone: 205.663.1500 Fax: 205.663.3221**

**[www.nsrw.com](http://www.nsrw.com)**



Joining to Promote Resistance Welding Excellence

---



AWS President, 2026  
**Josh Burgess**



RWMA Chair, 2026  
**Hamilton Terrell**  
T.J. Snow Company



RWMA Secretary  
**Adrian Bustillo**  
Tel: 786.937.9595  
Email: [abustillo@aws.org](mailto:abustillo@aws.org)

---

8669 NW 36th Street #130, Miami, FL 33166

 305.443.9353 |  [rwma@aws.org](mailto:rwma@aws.org)

 [rwma.org](http://rwma.org)

Resistance welding is the joining of metals by applying pressure and passing current for a length of time through the metal area which is to be joined. The key advantage of resistance welding is that no other materials are needed to create the bond, which makes this process extremely cost effective.

There are multiple forms of resistance welding (e.g. spot and seam, projection, flash, and upset welding) which differ primarily by the types and shapes of weld electrodes that are used to apply the pressure and conduct the current. The electrodes, typically manufactured from copper-based alloys due to superior conductive properties, are cooled by water flowing through cavities inside the electrode and the other conductive tooling of the resistance welding machine.

Resistance welding machines are designed and built for a wide range of automotive, aerospace and industrial applications. Through automation, the action of these machines is highly controlled and repeatable allowing manufacturers to staff production readily.

## ABOUT RWMA

RWMA advances Resistance Welding technology by broadening its use while promoting its economic benefits. RWMA supports documented processes, standards, education and advancements — keeping Resistance Welding at the forefront of automotive, aerospace and industrial manufacturing. Through a partnership with the American Welding Society, RWMA members receive enhanced benefits, support, savings and opportunities.



**Join Now and  
Help Strengthen  
the Industry.**

visit [aws.org/rwma](https://aws.org/rwma)

## WHY JOIN RMWA

**RWMA Members advance Resistance Welding** through collaboration and participation on important RWMA & AWS committees – partnering with fellow leaders to develop and refine best practices, procedures and processes that benefit the industry at large.

**RWMA Members build valuable relationships** through participation in AWS & RWMA programs, committees, conferences and networking events. Members meet twice yearly: Spring in conjunction with WEMCO and Fall hosted by a member company. Members also gather at AWS-sponsored conferences and trade shows throughout the year.

**RWMA Members strengthen the industry** by contributing to AWS educational content like the Emmet A. Craig Resistance Welding School, the Welding Fundamentals II online course, and the Certified Resistance Welding Technician (CRWT) – the new standard for hiring & employee advancement.

**RWMA Members benefit from enhanced visibility** by supplying content for a quarterly newsletter, receiving a listing inside a yearly directory, enjoying access to AWS online & social media resources and are published frequently in the AWS Welding Journal. Members are also presented with advantages and opportunities that enhance their technical and career growth – including discounts on AWS products (Bookstore, Education, Certification) and registration costs to attend AWS and RWMA events.



## RWMA PRODUCTS & SERVICES

**Certified Resistance Welding Technician** – The new Certified Resistance Welding Technician (CRWT) credential, co-developed by AWS and RWMA, separates the qualified from the untested. If you are or employ a Welder, Engineer, Technician, Skilled Tradesmen, Quality Control Manager or Supervisor in a resistance welding environment, you can benefit from the AWS CRWT certification.

 [aws.org/certification/page/crwt-training](https://aws.org/certification/page/crwt-training)

**Emmet A. Craig Resistance Welding School** – RWMA offers this intensive two-day course about the basics of Resistance Welding. The school is conducted by accomplished professionals and is designed to give technicians, operators, production supervisors, engineers, and others the opportunity to further their knowledge in the theory, applications, and equipment used in the Resistance Welding process.

 [aws.org/rwma](https://aws.org/rwma)

**AWS Welding Fundamentals II** – This online course provides a comprehensive overview of Resistance Welding. Participants will learn about the science, equipment, consumables, variables, safety precautions, and advantages inherent to the process.

 [awo.aws.org](https://awo.aws.org)

**RWMA & AWS Publications** – Resistance Welding standards, specifications publications are available for purchase with an AWS member discount at the AWS Bookstore.

 [pubs.aws.org/resistance-welding/424](https://pubs.aws.org/resistance-welding/424)

**RWMA LinkedIn Group & Resistance Welding Community** – Join the RWMA Group on LinkedIn for the latest committee and industry updates. Members access valuable materials and connect with their peers on a discussion forum inside the AWS Member Network.

 [aws.org/membership](https://aws.org/membership)



**RWMA Scholarships** – RWMA established these scholarships in 2005 to perpetuate its legacy of support for welding education for students of the Resistance Welding process. Its purpose is to provide financial assistance to individuals who express an interest in Resistance Welding. The scholarship are available to U.S. and Canadian citizens who are students majoring in Welding Engineering or Welding Engineering Technology.

 [aws.org/foundation](https://aws.org/foundation)

---

## Resistance Welding Manufacturing Alliance Scholarship — 2025 Recipients

**\$5,000**



**Timothy Minnema**  
Ferris State University



**Michael Smith**  
Ferris State University

**\$4,500**



**Easton Roundy**  
Brigham Young University-Idaho

---

**Individual Membership** – RWMA now offers membership for individuals not able to join through the AWS Corporate avenues. Contact RWMA to see if you qualify to become an RWMA Individual Member!

 [aws.org/rwma](https://aws.org/rwma)



## RWMA PAST PRESIDENTS/CHAIRS

|                              |         |
|------------------------------|---------|
| E. S. Smith .....            | 1940    |
| Malcolm S. Clark .....       | 1941    |
| Preston M. Hall.....         | 1942    |
| Fred H. Johnson .....        | 1943    |
| Floyd E. Taylor .....        | 1944    |
| Charles Eisler .....         | 1945    |
| Harold B. Warren.....        | 1946    |
| George N. Sieger.....        | 1947    |
| Theodore S. Long.....        | 1948    |
| Ben L. Wise.....             | 1949    |
| T. Embury Jones.....         | 1950    |
| Harry V. Beronius, Jr. ....  | 1951    |
| J. Roy Barefoot.....         | 1952-53 |
| Fred R. Learman.....         | 1954    |
| John C. Wilson, Jr.....      | 1955-56 |
| David V. Uihlein.....        | 1957-58 |
| William H. Carrigan .....    | 1959-60 |
| Simon Fisher .....           | 1961-62 |
| Harry V. Beronius, Jr. ....  | 1963-64 |
| Arend Bruinsma.....          | 1965-66 |
| Walter P. Simmons .....      | 1967-68 |
| John F. Nichols .....        | 1969-70 |
| Roy K. Haugseth .....        | 1971-72 |
| F. A. "Dutch" Bodenheim..... | 1973-74 |
| Dean L. Knoght .....         | 1975-76 |
| Mondo L. Baldwin.....        | 1977-78 |
| Andrew Hunter .....          | 1979-80 |
| William G. Emaus.....        | 1981-82 |
| Emmet A. Craig.....          | 1983-84 |
| Ben Grzegorek .....          | 1985-86 |
| Donald J. Beneteau.....      | 1987-88 |

|                           |           |
|---------------------------|-----------|
| James Tieglman .....      | 1989-90   |
| Robert Hofman .....       | 1991      |
| Sanford L. Lee .....      | 1992-93   |
| Harry S. Radcliff.....    | 1994-95   |
| Patricia S. Adams.....    | 1996-97   |
| William Qualls .....      | 1998-99   |
| William H. Brafford ..... | 1999-01   |
| David Beneteau.....       | 2001-03   |
| Larry Moss.....           | 2004-06   |
| Michael Simmons .....     | 2007-08   |
| Roger Hirsch.....         | 2009-10   |
| Wade Burnette.....        | 2011-12   |
| Mark Gramelspacher.....   | 2013      |
| Ed Langhenry .....        | 2013-2015 |
| Tom Snow .....            | 2016-2017 |
| Matt Post.....            | 2018-2019 |
| Don DeCorte .....         | 2020-2021 |
| Tim Foley .....           | 2022-2023 |
| Niels Johnson.....        | 2024-2025 |
| Hamilton Terrell .....    | 2025-2026 |

---



## ELIHU THOMSON RESISTANCE WELDING AWARD



The Elihu Thomson Resistance Welding Award is awarded annually by the RWMA to a living individual who has made an outstanding contribution to the technology and application of resistance welding, as evidenced by one or more of the following:

- ◆ Authored technical paper(s) on a RW subject in *Welding Journal* or recognized publication.
- ◆ Developed innovations in resistance welding equipment or technology.
- ◆ Made a unique application of resistance welding in a production environment.
- ◆ Other contributions as the RWMA Governance Committee shall deem worthy of recognition.

### Past Recipients

|            |   |
|------------|---|
| 1986 ..... | T. Embury Jones – Precision                 |
| 1987 ..... | H. A. Neid – General Electric               |
| 1988 ..... | S. Fisher – Newcor                          |
| 1989 ..... | Joseph H. Cooper – Taylor-Winfield          |
| 1990 ..... | A. W. Schueler – Precision                  |
| 1991 ..... | J. F. Deffenbaugh – Wean United             |
| 1992 ..... | L. J. Murto – Peer                          |
| 1993 ..... | C. J. Collom                                |
| 1994 ..... | J. P. Thorne – Newcor                       |
| 1995 ..... | Donald J. Beneteau – CenterLine             |
| 1996 ..... | Dietrich K. Roth – RoMan Mfg., Inc.         |
| 1997 ..... | John Nichols – RWC, Inc.                    |
| 1998 ..... | Edward Green – Taylor-Winfield Technologies |
| 1999 ..... | Walter D. Simmons – Tuffaloy Products       |
| 2000 ..... | Robert G. Cuff – ENTRON Controls            |
| 2001 ..... | Jim Morrissey                               |
| 2002 ..... | John Sant                                   |

- 2003 ..... T. James Snow, Sr. – T. J. Snow Company, Inc.
- 2004 ..... Bob Matteson – Taylor-Winfield Technologies
- 2005 ..... Bob Hofman – RoMan Mfg., Inc.
- 2006 ..... Sandy Lee – RWC, Inc.
- 2007 ..... Howard D. Johnston – CMW Inc.
- 2008 ..... Bob White, Sr. – Janda Co.
- 2009 ..... Larry Moss – Automation International, Inc.
- 2010 ..... David Beneteau – CenterLine (Windsor) Ltd.
- 2011 ..... William Brafford – Tuffaloy Products
- 2012 ..... Dr. Muralidhar Tumuru - U.S. Steel
- 2013 ..... Roger Hirsch – Unitrol Electronics
- 2014 ..... Dr. Jerry Gould – EWI
- 2015 ..... Don DeCorte – RoMan Mfg., Inc.
- 2016 ..... Don Maatz – R&E Automated Systems
- 2017 ..... Mark Siehling – RoMan Manufacturing
- 2018 ..... Dr. Michael Karagoulis – General Motors
- 2019 ..... Bob Cohen – WeldComputer
- 2020 ..... Dr. Peng-Sheng Wei – Hotway Technology Corp.
- 2021 ..... Tom Snow – T.J. Snow Company
- 2022 ..... Menachem Kimchi – Ohio State University
- 2023 ..... Donald Spinella – Arconic
- 2024 ..... Professor Hongyan Zhang – University of Toledo
- 2025 ..... Kurt Hofman – RoMan Manufacturing

Contact [rwma@aws.org](mailto:rwma@aws.org) or visit [aws.org/about/awards](https://aws.org/about/awards) to nominate an individual for the Elihu Thomson Award.

---



The *RWMA Membership Directory* contains key information and complete listings of manufacturers, distributors and marketers of machinery, electrodes and components for the Resistance Welding industry.

Each member company falls under one or more of the following categories:

- ♦ **Machinery** – designers and builders of standard and special resistance welding machinery, complete lines of special or multi-purpose production machines, completely automated production lines, and automatic production equipment for the metal-working industry which incorporate spot, butt, flash, projection, and seam welding processes.
- ♦ **Components** – manufacturers of components and accessories for the resistance welding processes producing controls, transformers, weld guns, weld cylinders, welding contractors, water chillers, cables, shunts, weld monitoring and test equipment.
- ♦ **Copper Products** – metallurgical specialists and manufacturers producing resistance welding electrodes, holders, adapters, seam welding wheels, forgings, castings, and other RWMA materials to meet the multi-faceted production requirements of the metal fabricating industries.
- ♦ **Sales and Marketing** – organizations engaged in the distribution of resistance welding machinery and accessories; Suppliers of products and services to manufacturers of equipment intended for internal use and consumption and not freely sold in the marketplace. Rebuilders of equipment intended for sale in the marketplace.



**Become an active  
member in the  
RWMA community**

visit [aws.org/rwma](http://aws.org/rwma)

## OPPORTUNITIES AT A GLANCE:

### **Master the Craft of Resistance Welding Seminar**

*Emmet A. Craig Resistance Welding School*

The Resistance Welding Manufacturing Alliance (RWMA) proudly offers the Emmet A. Craig Resistance Welding School, an intensive two-day course designed to provide operators, production supervisors, engineers, and other professionals with a comprehensive understanding of the theory, applications, and equipment used in resistance welding. Through demonstrations and hands-on participation with classroom welding machines and auxiliary equipment, attendees will gain practical knowledge and skills that are immediately applicable in their work.

### **CRWT Training (Certified Resistance Welding Technician)**

*Equipment. Procedure. Confidence.*

This certification showcases a technician's expertise in resistance welding principles, processes, and equipment, achieved through relevant education, experience, and examination.

 [aws.org/crwt](https://aws.org/crwt)

### **Jobs in Welding**

*Employers. Job Seekers. Internships.*

Jobs in Welding can help you find jobs near you, create a better and more effective resume, and even improve your resume with a free review.

 [jobsinwelding.com](https://jobsinwelding.com)

## OPPORTUNITIES AT A GLANCE:

### FABTECH Expo 2026

Success in the welding industry goes beyond tools and technology; it's about forging meaningful connections and sharing invaluable knowledge. Whether you aim to reconnect with trusted suppliers, discover new partnerships, fill crucial workplace gaps, or boost productivity, FABTECH is your ultimate destination to elevate your business operations.

Las Vegas, NV .....October 21-23

 [fabtechexpo.com](https://fabtechexpo.com)

### *Welding Journal*

*Welding Journal* content includes features on the people, processes, and equipment of our industry; cutting-edge research and technical papers; Q&A columns; and more.

✉ **Cindy Weihl**, *Editor-in-Chief* at [cweihl@aws.org](mailto:cweihl@aws.org)

### Extended Coverage with Digital Advertising

The Power of Digital Target Marketing

New AWS Digital Solutions – Delivering your message directly to inboxes with: This Week in Welding, Dedicated Sponsored Emails, and Publication E-Announcements. Elevate your marketing strategy with AWS's E-News Solutions.

✉ **Scott Beller**, *Senior Sales Executive, Expositions and Media* at [sbeller@aws.org](mailto:sbeller@aws.org)

✉ **Cara Collins**, *Senior Sales Executive, Expositions and Media* at [ccollins@aws.org](mailto:ccollins@aws.org)

### Stay tuned for the 2026 RWMA Annual Meeting

 [aws.org/about/industry-partners/rwma/](https://aws.org/about/industry-partners/rwma/)

## ADVERTISER INDEX

|                                   |                    |
|-----------------------------------|--------------------|
| Amanda Weld Tech Inc.....         | 19                 |
| Buckeye Fasteners .....           | 20                 |
| Cadi Company Inc.....             | Inside back cover  |
| CenterLine Limited .....          | 21                 |
| H&H Resistance Welders.....       | 27                 |
| KOOPS .....                       | 29                 |
| NSRW Inc.....                     | Inside front cover |
| Resistance Welding Machine.....   | 37                 |
| Sherbrooke Metals Corp.....       | Back cover         |
| Southern Copper & Supply.....     | 39                 |
| Taylor-Winfield Technologies..... | 43                 |
| TJ Snow .....                     | 45                 |
| Weldstone Americas, LLC.....      | 46                 |



## ALPHABETICAL INDEX

|   |    |
|---|----|
| <b>A</b>  |    |
| ACME Electric Welder Company (CA).....              | 18 |
| Alcavil (Mexico) .....                              | 18 |
| Amada Weld Tech (CA) .....                          | 18 |
| Automation International (IL) .....                 | 18 |
| <b>B</b>  |    |
| Buckeye Fasteners (OH) .....                        | 20 |
| <b>C</b>  |    |
| Cadi Company (CT) .....                             | 20 |
| CenterLine (Canada) .....                           | 22 |
| Consultores y Servicios Industriales (Mexico) ..... | 22 |
| Cybersmith Engineering (IA).....                    | 22 |
| <b>D</b>  |    |
| Darrah Electric Company (OH) .....                  | 23 |
| <b>E</b>  |    |
| Electron Beam Technologies (IL) .....               | 23 |
| ENTRON Controls (SC) .....                          | 24 |
| Erie Industrial Products (OH).....                  | 24 |
| EWI (OH).....                                       | 25 |
| <b>F</b>  |    |
| Fusion Welding Solutions (MI) .....                 | 25 |
| <b>G</b>  |    |
| G.E. Schmidt (OH) .....                             | 26 |
| Glen Dimplex Thermal Solutions (MI) .....           | 26 |
| Guild International (OH).....                       | 26 |
| <b>H</b>  |    |
| H&H Resistance Welders.....                         | 26 |
| Huys Industries (Canada) .....                      | 27 |
| <b>I</b>  |    |
| IBC Advanced Alloys (IN) .....                      | 28 |
| Ideal Welding Systems L.P. (IL) .....               | 28 |
| Industrial Supplier Larey (TX).....                 | 28 |
| <b>J</b>  |    |
| Janda Company (CA) .....                            | 28 |
| <b>K</b>  |    |
| Kriton Weld Equipments (India) .....                | 30 |
| Koops Automation Systems (MI) .....                 | 30 |

**L**

|                               |    |
|-------------------------------|----|
| Lebronze Alloy (France) ..... | 31 |
| Luvata Ohio (OH) .....        | 31 |

**M**

|                                       |    |
|---------------------------------------|----|
| MACOSA (Mexico) .....                 | 32 |
| MASINSA (Mexico) .....                | 32 |
| Matuschek Welding Products (MI) ..... | 32 |
| MILCO – Welform Electrodes (MI) ..... | 33 |

**N**

|                                   |    |
|-----------------------------------|----|
| NIMAK North America (TN) .....    | 33 |
| North American Höganäs (PA) ..... | 33 |
| NSRW (AL) .....                   | 34 |

**O**

|                        |    |
|------------------------|----|
| Obara Corp. (KY) ..... | 34 |
|------------------------|----|

**P**

|                        |    |
|------------------------|----|
| Plansee USA (MA) ..... | 34 |
|------------------------|----|

**R**

|   |    |
|---|----|
| Resistance Welding Controls (PA) .....            | 35 |
| Resistance Welding Machine & Accessory (MI) ..... | 35 |
| RoMan Manufacturing (MI) .....                    | 36 |

**S**

|   |    |
|---|----|
| Sherbrooke Metals Corporation (OH) .....      | 36 |
| Southern Copper & Supply (AL) .....           | 36 |
| Standard Resistance Welder Company (GA) ..... | 36 |
| Strunk Connect GmbH & Co. KG (Germany) .....  | 38 |
| Sunstone Engineering LLC (UT) .....           | 38 |

**T**

|   |    |
|---|----|
| Taylor-Winfield Technologies (OH) ..... | 38 |
| TECNA (Italy/USA) .....                 | 40 |
| Tipaloy (MI) .....                      | 40 |
| T.J. Snow Company (TN) .....            | 40 |
| Tuffaloy Products (SC) .....            | 41 |

**U**

|                                |    |
|--------------------------------|----|
| Unitrol Electronics (IL) ..... | 41 |
|--------------------------------|----|

**W**

|   |    |
|---|----|
| Watteredge, A Southwire Company (OH) .....  | 42 |
| WeldComputer (NY) .....                     | 42 |
| WELDSTONE Americas, LLC (FL) .....          | 44 |
| Worton Manufacturing Company (Canada) ..... | 44 |

## **ACME ELECTRIC WELDER COMPANY**

Seedorff Acme Corporation  
1338 N. Knollwood Circle, Anaheim, CA 92801

 714.252.5330

 [seedorffacme.com](http://seedorffacme.com)

Manufacturer of quality production resistance welding machines and equipment in Los Angeles, California since 1918. Machine types include: Rocker Arm, Press/Projection, Seam, Butt, Portable Gun, Trans-Gun, Miniature Gun, Multi-Spot, Cross Wire panel/truss, Special Application (semi-automatic or fully automatic), and Reconditioned-to-New machines. Available in Single Phase AC, Secondary Rectified DC, and Medium Frequency Inverter DC. Industries served include: Automotive, Aerospace, Sheet Metal, HVAC, Wire, Construction, Office Furniture, Appliance, Electronics, Nuclear, and US Government.

## **ALCAVIL**

Manuel de La Pena y Pena 503, 64410 Monterrey, N.L., MEXICO

 +811 050 86 86

 [alcavil.com.mx](http://alcavil.com.mx)

We are a Resistance Welding supplier company located in Monterrey, Mexico with more than 20 years of experience. We can provide you the correct support for your requirements in projection welding, sheet to sheet welding, etc. One thing that differentiates us from our competitors is that we can provide electrodes or spot weld supplies based on your specifications with the best quality material.

## **AMADA WELD TECH**

1820 South Myrtle Avenue, Monrovia, CA 91016

 626.303.5676

 [amadaweldtech.com](http://amadaweldtech.com)

Based in Southern California, AMADA WELD TECH is a leading manufacturer of equipment and systems for resistance welding, laser welding, laser marking, laser cutting, laser micromachining, and hot bar bonding. The company provides products to a wide range of markets, including the medical device, battery, electric vehicle and solar industries, as well as the global electronics, automotive and general industrial markets.

## **AUTOMATION INTERNATIONAL**

1020 Bahls St., Danville, IL 61832-3389

 217.446.9500

 [automation-intl.com](http://automation-intl.com)

All resistance welding machinery including spot, projection, seam and flash butt welders. Full design and manufacturing capabilities. Complete automated systems, both welding and assembly. Wheel manufacturing lines, A.C., D.C., MFDC transformer design and manufacture. Robotic systems, automated arc welding systems, Mil-W specification welders, Technical Services, rebuilding expertise, control design and software development. Laser Technology.

# Experience. Is. Everything.

## Resistance Welding Power Supplies Weld Heads • Weld Monitors • Systems

AMADA WELD TECH has been honing our resistance welding expertise since 1948. Our extensive range of equipment and systems is second to none.

Resistance welding applications like automotive electronics, medical devices, batteries, solar cells, and aerospace components require precise, consistent, and robust welds that only expertly made equipment and dialed-in manufacturing processes can supply.

There are several upstarts, but when it comes to micro resistance welding - **Father Knows Best.**



AMADA WELD TECH  
applications lab, Spring 1973



AMADA

[www.amadaweldtech.com](http://www.amadaweldtech.com) • (626) 303-5676

## BUCKEYE FASTENERS

5250 West 164th St., Cleveland, OH 44142

☎ 216.267.2240

💻 [buckeyefasteners.com](http://buckeyefasteners.com)

The Ohio Nut and Bolt Company manufactures resistance weld fasteners, weld screws, weld nuts, leg levelers, adjusting screws and various custom fasteners. Inch and metric threads are available. Employee Owned Since 1980.

## CADI COMPANY

60 Rado Drive, PO Box 1127, Naugatuck, CT 06770-1127

☎ 800.243.3650

💻 [cadicompany.com](http://cadicompany.com)

Cadi Company offers the largest variety of RWMA Copper Alloys in Rod, Bar, Plate, Hexagon, Shapes and Weld Wheel Blanks from our stock to your dock. Full cutting and machining capabilities enables Cadi to supply materials to customer's specifications in RWMA Class I, II, III and IV copper alloys. We offer Refractory Metals including Copper Tungsten, Tungsten and Molybdenum. Cadi manufactures the most extensive range of standard and custom resistance welding consumables and accessories such as seam weld wheels, cables, caps (tapered and threaded), electrodes (straight and formed, nut and stud welding, cross-wire welding, refractory faced), tips, shanks, adaptors, shunts, holders and custom components.



# BUCKEYE FASTENERS COMPANY

## Stronger Welds Start Here

Buckeye Fasteners provides a wide range of fasteners designed for automotive, appliance, HVAC, aerospace, and metal fabrication applications.

- **Weld Nuts**
- **Studs**
- **Pins**
- **Bushings**
- **Electrodes**

Order direct at:

[www.buckeyefasteners.com](http://www.buckeyefasteners.com)



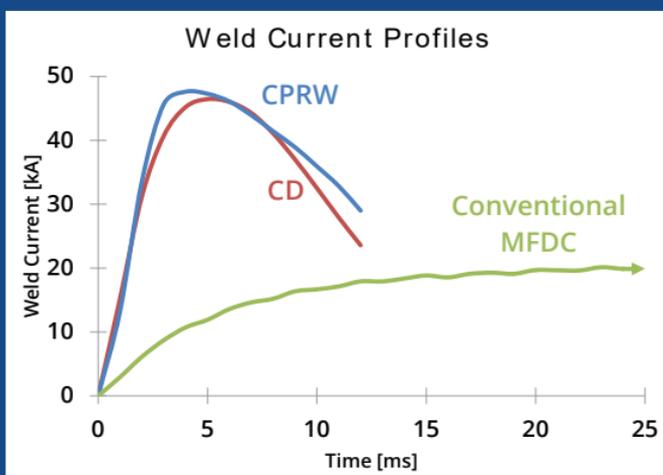
**FASTENER INDUSTRIES, INC.**  
*An Employee Owned Company.*



# CONTROLLED PULSE RESISTANCE WELDING

CPRW is a cost-effective process for projection welding to ultra-high-strength and hot-stamped boron structural steels, providing an alternative to traditional, expensive, and application-specific Capacitive Discharge welders.

The CPRW process uses an MFDC weld control and low impedance transformer to supply high current, higher voltage, short weld time, and fast follow-up with the DRM™.



High Current, Higher Voltage, Short Weld Time

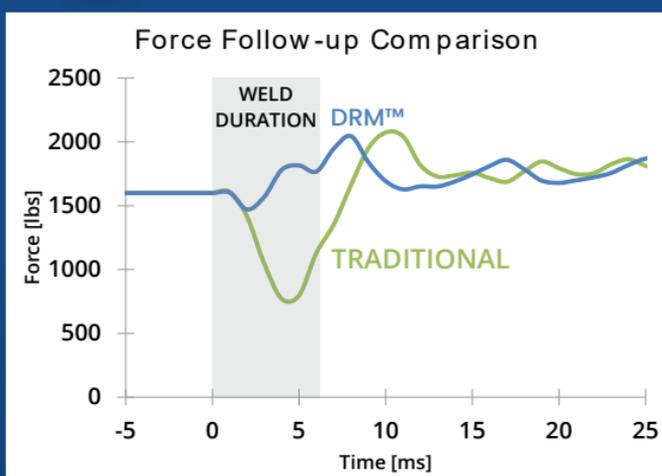
## DYNAMIC RESPONSE MODULE™



The DRM™ is a programmable air spring that provides fast force follow-up required for the CPRW process.

### Capital Equipment Utilization:

The MFDC weld control allows the projection welder to be used for other workpieces and fasteners.



Fast Consistent Weld Force Follow Up



LEARN MORE

## **CENTERLINE (WINDSOR) LIMITED**

415 Morton Drive, Windsor, Ontario N9J 3T8 CANADA

 519.734.8464

 [cntrline.com](http://cntrline.com)

CenterLine is a global leader in resistance welding solutions, combining over 65 years of innovation with advanced automation for the automotive, aerospace, defense, and transportation industries. Our product portfolio spans robust spot-welding guns (FlexGun™), high-force fastener welders (FlexFast™), and self-adjusting fastener-welding guns (SoftMount™ Gun), to clinching solutions (VersaForce™) and configurable high speed fastener assembly cells (High-Speed Fastener Solution™). We supply comprehensive resistance-welding consumables manufactured to the highest quality standards, and built-in fastener detection systems (VeriFast™) for accurate weld pin position monitoring. Our product solutions are pre-engineered, thoroughly tested, and delivered with 3D models and required documentation for seamless integration, providing efficient, reliable performance and minimizing downtime.

## **CONSULTORES Y SERVICIOS INDUSTRIALES S.A. DE C.V. (CONSI)**

ATTA Microparque Industrial PyME, Bodega 77

Carretera Estatal 500 km 30.4

Tierra Blanca, El Marqués, Qro. C.P. 76256 MEXICO

 +52.442.349.83.10

 [consi.com.mx](http://consi.com.mx)

We do business as CONSI in Mexico since 1991, the last 29 years dedicated to the resistance welding industry. The machine types include special and standard resistance welding machines (spot, seam, butt, projection and portable gun). Reconstruction of existing equipment to meet your specific needs. Repair of resistance welding transformers and technical services for all brands. We supply round RWMA copper alloys, bars and plates in Mexico. Electrodes, caps, shanks, adapters, seam weld wheels. Cables cooled by air and water, laminated shunts, SCR's modules, water coolers, controls Entron, Forwel and Unitrol. We have at home design of tools, service, technical assistance, on-site training and seminars.

## **CYBERSMITH ENGINEERING**

307 Walnut Street, Forest City, IA 50436

 641.585.5407

 [cybersmith.com](http://cybersmith.com)

Cybersmith® Engineering designs and builds special machines for Factory Automation. Projects range from simple, stand-alone, manually fed machines, to 12 axis fully automatic systems. Resistance Welding Machines range from multiple spot welders to multiple RAM projection welders. Examples of their products can be seen on their website.

**DARRAH ELECTRIC COMPANY**

5914 Merrill Avenue, Cleveland, OH 44102

☎ 800.621.0014

💻 [darrahelectric.com](http://darrahelectric.com)

Darrah Electric Company offers a complete line of SCR Contactors for resistance welding in both air and water cooled designs. Contactors are available in ratings from 5 KVA thru 1500 KVA applications. Solid-state ignitron tube and mechanical contactor replacements are also available. Darrah Electric offers off-the-shelf delivery of high current SCR and diode stack assemblies available in all popular circuit configurations. Darrah's range of assemblies includes stud type, module and press pack power assemblies in air and water-cooled designs. They have state-of-the-art in-house computer-assisted 3D modeling design, engineering, assembly and testing capabilities. Their value-added inventory supplies thousands of finished rectifier and SCR assemblies per year to customers worldwide.

Darrah Electric is ISO 9001:2008 Certified, Drawings, test reports and certifications are supplied with the finished product. Darrah Electric manufactures a full range of high current D.C. power supplies for use in the metal finishing, laboratory, and industrial markets. Darrah power supplies are available with Air or Water cooling in D.C. output rating to 50,000 Amps, up to 1,000 Volts D.C. All standard input line voltages and frequencies are available. Darrah D.C. power supplies are engineered to meet specific customer needs and specifications. Models are available in 6 or 12 pulse designs.

**ELECTRON BEAM TECHNOLOGIES**

1275 Harvard Drive, Kankakee, IL 60901

☎ 815.935.2211

💻 [electronbeam.com](http://electronbeam.com)

O.E.M. manufacturer of wire, cable and bare copper rope for the resistance welding market. Our manufacturing ability provides customers with bunched, stranded and rope lay copper conductors for manufacture of resistance welding stranded shunts and cables, air and water cooled. We offer custom designs to service your market with a full range of gage and MCM sizes available.



**Join Now and Help  
Strengthen the Industry**

visit [aws.org/rwma](http://aws.org/rwma)

## ENTRON CONTROLS

1402 S Batesville Rd. Greer, SC 29650

 864.416.0190

 [entroncontrols.com](http://entroncontrols.com)

Microprocessor-based resistance welding controls: Mid-Frequency DC (MFDC) Inverters. Single phase AC or DC Controls. Three Phase DC or LDC controls. Cascade Multi SCR/Multi Valve. Most all controls available with Constant Current and Monitoring. All controls available in "Flat Pak" form for custom integration into existing enclosures. Retrofit style controls are available for use with existing SCR's for most models. RS232 and RS485 and Ethernet ENLINK and NETFLASH networking communications software. Pressure control and sensing systems integrated into weld control. Air or water-cooled SCR and mechanical isolation contactors alone or bundled with controls. Weld controls designed for use with handheld weld guns with integral transformers that meet recommendations including Ground Fault Detection. Specialty designed controls for band saw welding, butt welding, annealing, flash welding, bench use and others. Ability to customize controls such as multiple controls in a single cabinet. Welder Interlocks for load control and distribution.

### BRANCHES

#### **BF ENTRON, LTD.**

Building 80, Unit 1, 1st Avenue, The Pensnett Estate  
Kingswinford, West Midlands, DY6 7FQ  
United Kingdom

 011.44.1384.455401

 [entroncontrols.com](http://entroncontrols.com)

#### **ENTRON de México S.A. de C.V.**

Eje 1, No. 484, Parque Industrial FINSA  
Ramos Arizpe, Coahuila  
México, 25904

 864.416.0190

 [entron.mx](http://entron.mx)

## ERIE INDUSTRIAL PRODUCTS

248 Artino Street, Oberlin, OH 44074

 440.926.4000

 [erieindustrialproducts.com](http://erieindustrialproducts.com)

Erie Industrial Products manufactures air and water-cooled resistance welding cables, press welded laminated shunts, bus bar fabrication, and braided copper shunts/jumpers. Known for our excellent customer service, the staff at EIP continue to strive every day to raise our quality standards as an up-and-coming leader in the resistance welding component manufacturing industry. With a major move to our current space in 2019, we have been able to increase our capacity to manufacture and deliver prototype to full-scale production orders quickly and efficiently. EIP has the capability to manufacture all types of custom cables, connectors, and shunts. Custom cables to the highest caliber - it's our specialty!

## **EWI**

1250 Arthur E Adams Dr., Columbus, OH 43221

☎ 614.688.5000

💻 [ewi.org](http://ewi.org)

EWI is the leading engineering and technology organization in North America dedicated to developing, testing, and implementing advanced manufacturing technologies for industry. Since 1984, EWI has offered applied research, manufacturing support, and strategic services to leaders in the aerospace, automotive, consumer electronic, medical, energy, government and defense, and heavy manufacturing sectors. By matching our expertise to the needs of forward-thinking manufacturers, our technology team serves as a valuable extension of our clients' innovation and R&D teams to provide premium, game-changing solutions that deliver a competitive advantage in the global marketplace. In addition to the services and products available to customers on a per-project basis, EWI offers membership in our organization to help companies get the most from working with us. With direct access to our technical staff, facilities, and library research services, members can solve their toughest problems, deliver higher quality products faster, and gain the competitive edge in a rapidly changing manufacturing environment.

## **FUSION WELDING SOLUTIONS**

20836 Hall Road, #321, Clinton Twp., MI 48038

☎ 248.743.0725

💻 [fusionwelding.com](http://fusionwelding.com)

Fusion Welding Solutions is a full-service engineering company that specializes in testing and consulting services for the welding industry. Their staff and laboratories offer skilled welding and controls engineers with a knowledge base that covers all aspects of the welding processes, certifications, and compliance with customer standards. Fusion Welding Solutions has extensive experience in the design, review, and set-up of resistance, laser, and arc welding processes. Their staff is available on a short or long-term basis and is always on-call for emergency situations. Fusion Welding Solutions is flexible to work with the needs and requirements of each customer. Quality and cost-effective services include; Weld Engineering, Weld Destruct Services, Prototype, Services, Controls Engineering, Robotics, Weld Cell Maintenance, Welder Training and Certification, WPS and PQR Development, Metallurgy Services, Simulation Modeling and Analysis, Design and Set-up on Resistance, Laser, and Arc Welding Processes.



## **G.E. SCHMIDT**

11236 Williamson Rd. Cincinnati, OH 45241

 513.489.5130

 [geschmidt.com](http://geschmidt.com)

G.E. Schmidt, founded in 1960, is a manufacturer and international distributor of resistance welding machines, accessories and consumables for spot and projection welding applications. In addition to pedestal welders, electrodes, tip dressers, industrial ceramics and automated nut and bolt feeders, G.E. Schmidt specializes in quality assurance systems such as the proprietary ProLine Nut Verification System (NVS). G.E. Schmidt also offers on-site support and process development services.

## **GLEN DIMPLEX THERMAL SOLUTIONS**

2625 Emerald Drive, Kalamazoo, MI 49001

 800.968.5665

 [dimplexthermal.com](http://dimplexthermal.com)

OTHER BRANCHES:

### **GERMANY, CHINA**

Manufacturer of liquid fluid-chillers from 1/8 ton through 1000's of tons of cooling capacity.

## **GUILD INTERNATIONAL**

7273 Division Street, Bedford, OH 44146

 440.232.5887

 [guildint.com](http://guildint.com)

Guild International designs and manufactures coil end strip welding machinery for use on steel process lines.

## **H&H RESISTANCE WELDERS**

28701 S Highway 125 Afton, OK 74331

 918.257.5150

 [hhwelders.com](http://hhwelders.com)

H&H Resistance Welders designs and manufactures new single and three phase resistance welding equipment, refurbished used equipment of all resistance welding brands, and has adapted a new special application automated line of machines. H&H also offers its very own single and three phase controls as well as maintenance programs. H&H is a distributor for Tuffaloy Products, Inc., RoMan Manufacturing, Entron, Unitrol Industries and WeldComputer.

**HUYS INDUSTRIES**

175 Toryork Drive, Unit #35,  
Weston, Ontario, M9L 1X9 Canada

☎ 416.747.1611

💻 huysindustries.com

BRANCHES:

**Huys Windsor**

444 Riverview Line Unit 14,  
Chatham, Ontario N7M 0N2, CANADA

☎ 1.800.461.9936

**Huys USA**

28421 Highland Road  
Romulus, MI, 48174

☎ 734.895.3067

**Mexican Distributor**

RM Aplicaciones S.A. de C.V.  
Cataratas 17, interior 16, Parque Industrial la Noria,  
El Marqués, 76246, Querétaro, México

☎ +52 1 442.728.6986

Roberto Mendieta

All standard, custom, cold formed, and machined RWMA and ISO electrodes, accessories and consumables, such as holders, fixtures, and fabricated and machined parts and tooling. Patented TiCap™ titanium carbide coated electrodes, ParaCap™ parabolic electrodes, TriCoat™ multi-layered electrodes, “redress and recycle” programs, and SORPAS simulation resistance welding software. Patented Zirco® zirconium oxide and composite zirconium oxide-steel welding and locating pins. Weld training, weld parameter optimization and weld tool fixturing. Distributor of Harms+Wende products, and their sole weld controller repair facility in North America.

**SOLUTIONS & INTEGRATION**



**Stock & Custom  
Welding Solutions.**

- Spot Welders
- Seam Welders
- Butt/Flash Welders
- Custom Welders
- Consumables

**Robotics & Automation  
Integration.**

- Robotics
- Automation
- Machine Shop
- Parts Distributor

H&H Resistance Welders  
(918) 257-5150  
info@htwelders.com

## **IBC ADVANCED ALLOYS**

COPPER ALLOYS DIVISION  
401 Arvin Road, Franklin, IN 46131

 800.423.5612

 [ibcadvancedalloys.com](http://ibcadvancedalloys.com)

IBC Advanced Alloys is a manufacturer (forge products via hammer, press and ring rolling) and distributor of copper, copper alloys and aluminum bronze in plate, sheet, bar, rod, tube, discs and rings. Markets served are the RWMA, Plastic Mold, Heat Exchanger, metal melting and other industrial markets. They have been in continuous operation since 1946.

## **IDEAL WELDING SYSTEMS L.P.**

3294 Pyramid Drive, Rockford, IL 61109

 815.874.4349

 [ideal-werk.com](http://ideal-werk.com)

We are an innovative company in machinery and plant engineering. Our core competency is resistance welding and laser welding. We are quite successful in using our excellence and expertise for our customers in a wide range of industries and for many applications. We are considered to be one of the technology leaders. As a creative solution provider in joining technology, we enjoy worldwide recognition in our field.

## **INDUSTRIAL SUPPLIER LAREY**

DBA / International Industrial Supply Co.  
3620 East 14th Street, Brownsville, TX 78521

 956.982.1350

 [iisco.net](http://iisco.net)

Industrial Supplier Larey, Inc., is a steel and engineering plastics service center and a full-service distributor of Tool Steel, Aluminums, Carbon Steels, Engineering plastics, Copper Alloys, and Resistance Welding Electrodes.

## **JANDA COMPANY**

226 N. Sherman Ave., Unit A, Corona, CA. 92882

 951.734.1935

 [jandawelders.com](http://jandawelders.com)

Since 1960, Janda has manufactured Quality Standard and Special Resistance Welding Equipment. Janda offers the largest Standard Line of welders available, including Rocker Arm, Press, Projection, Longitudinal and Circumferential Seam welders available in Single Phase, Three Phase and Frequency Inverter, Multi-Head, Bench Type, Dimple Type, Corner Mesh, Miniature Weld Heads, Truss machines, Brake Shoe, Filter Bag, Gun Type, Rotary Spot, Fusion welders, Butt and T-Welders, also Precision Tensile Testers. Over 3,000 Special welders designed and manufactured. Machine certifications to government Mil. Spec. Class "A." Janda is also a stocking distributor/manufacturer of all welder components, accessories, and supplies including controls, transformers, electrodes and copper bar.

# YOUR RESISTANCE WELDING EXPERTS SINCE 1933

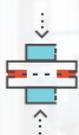
# NEWCOR

A PRODUCT OF KOOPS  
AUTOMATION SYSTEMS

- Full solutions from design to support
- Expertise in resistance welding, resistance heating, and turnkey automation
- Service and support for Newcor and other welding systems



Seam Welding



Projection Welding



Spot Welding



Resistance Heating



Robotic Welding



Friction Welding

## PROVE OUT YOUR PROCESS WITH CONFIDENCE

Our in-house welding lab helps you develop and test the RIGHT weld tooling + process to ensure it's right BEFORE production.

 **KOOPS**  
AUTOMATION SYSTEMS

616.395.0230

[koops.com](http://koops.com)

## KRITON WELD EQUIPMENTS

Regd. Office & Works: Block NO.305, AT. & VILL. Kashipura,  
POR S.O.: 391 243, TAL. & DIST. Vadodara, Gujarat, INDIA

 +91.9510719646 | 9687652119

 [kritonwelders.com](http://kritonwelders.com)

Since 1973, KRITON manufactures nearly a hundred types of models in various capacities in Arc Welding and Resistance Welding Equipments. Kriton has two manufacturing units at G.I.D.C., Makarpura, Vadodara and Village: Kashipura (Tal. & Dist.: Vadodara) with complete manufacturing and testing facilities. All welding machines at KRITON WELD EQUIPMENTS PVT. LTD. are strictly manufactured as per ISS/RWMA (USA) standards, incorporating latest technological developments and controls with highest order of quality & performance. Acquiring competitive position in welding industry. KRITON performs all activities of transformer manufacturing, fabrication, machining of parts, electronic control manufacturing along with well-set testing, all in house with topmost quality control and supervision. Tuv: ISO: 9001: 2015. CE certified.

## KOOPS AUTOMATION SYSTEMS

987 Productions Court, Holland, MI 49423

 616.395.0230

 [koops.com](http://koops.com)

PRODUCT:

### **Newcor**

2025 E. Genesee Ave., Seginaw, MI 48601

Koops Automations Systems builds and integrates custom automated systems leveraging our rock-solid engineering solutions and stellar customer service. In 2022 Koops proudly welcomed the legacy of Newcor brand welders into our portfolio. Newcor specializes in resistance welding equipment, resistance heating, and full turnkey solutions. These capabilities along with our dedicated service team enables us to build, service, and support Newcor welders as well as many other brands of welding and specialty equipment. This partnership upholds Newcor's renowned history while adding Koops' drive for technology advancement to maintain our mission to serve our customers with the best automation systems.

Koops and Newcor have customers across a wide range of industries including automotive, aerospace, defense, healthcare, appliance, general industries, and more. In addition to manufacturing resistance welding equipment, our in-house lab allows us to review and test your materials for an accurate understanding of what your application requires to be successful. Please visit our website and contact us to learn more about how Koops and Newcor can help you with your automation and welding needs.

**LEBRONZE ALLOYS**

Voie de Châlons – RD 977, 51600 Suippes – France

 +33 (0)3 26 69 28 28 [lebronze-alloys.com](http://lebronze-alloys.com)

For over 50 years, Lebronze alloys has been an international reference in the Automotive industry for resistance welding products. Our expertise, firstly developed in France and Germany, is now recognized in 35 countries. Being a major partner to almost all car builders involves important duties: not only manufacturing high quality alloys and electrodes but also by being a pioneer in innovation. All our products are manufactured 100% in our own dedicated facilities where melting, casting, extrusion, drawing, heat treatment, machining and cold forming operations, are permanently controlled by our experienced Engineering and Quality Assurance staff. This uniqueness guarantees complete traceability and thus perfect control of quality and improves the reliability of our supply chain.

**LUVATA OHIO**

1376 Pittsburgh Drive, Delaware, OH 43015

 740.363.1981 [luvata.com](http://luvata.com)

## BRANCHES:

**United Kingdom**

Luvata Welwyn Garden Ltd.

Centra Park, Bessemer Road

Welwyn Garden City, Hertfordshire AL7 1HT, UK

 011.44.1707.379789**China**

MM Metal Products (Suzhou) Co., Ltd.

53 Sanzhuang Street

Weiting Town, Suzhou Industrial Park

Jiangsu Provincem 215121, China

 011.86512.62851018**Brazil**

Luvata São Paulo

Avenida dos Autonomistas, nº 4.900

Galpão PR406-B 06194-060

Osasco - SP, Brazil

 011.55.11.4624.7661**Russia**

Luvata St. Petersburg

19th line V.O., 34-1-B

199178 St. Petersburg, Russia

 011.7.812.4492797

Luvata Special Products is the world's leading manufacturer of resistance welding electrodes including such internationally recognized brands as A-Trode®, C-Trode®, Cupal®, Nitrode® and Z-Trode®. Luvata Special Products offers a complete line of resistance welding products, along with exceptional customer service and technical support. Luvata Special Products is a group company of Mitsubishi Materials Corporation.

## MACOSA

MANUFACTURAS Y ALEACIONES DE COBRE S.A. DE C.V.  
Calle 3, Zona Industrial Benito Juárez, C.P. 76120, MEXICO

☎ +52.442.217.11.71 | +52.844.432.13.87

🌐 [Macosa.org](http://Macosa.org)

MACOSA is a company dedicated to the manufacture and distribution of products related to copper alloy and Resistance Welding consumables. Products include CAPS, standard electrodes, special electrodes, holders, shanks, base mount body styles, shunts, water cooled cables, air cooled cables, copper alloys, Class 2, 3, 11. We are a market leader in the provision of special materials of copper and have physical inventories at our facility sufficient to meet the needs of our customers.

## MANUFACTURA Y SUMINISTROS INDUSTRIALES S.A. DE C.V. – MASINSA

Laguna de Mayran 1020 Col. La Salle  
Saltillo, Coahuila 25240 Mexico

☎ +52.844.430.8777

🌐 [masinsa.com.mx/contacto](http://masinsa.com.mx/contacto)

Manufacturing, distribution, import and export of consumables and accessories for resistance welding. Import, export and distribution of raw materials based on copper alloys and refractory materials for resistance welding processes. Locations in Mexico City, Saltillo and Queretaro.

## MATUSCHEK WELDING PRODUCTS

42378 Yearego Drive, Sterling Heights, MI 48314

☎ 586.991.2434

🌐 [matuschek.com](http://matuschek.com)

Matuschek Welding Products, Inc. manufactures, imports, and distributes Resistance Welding Controllers, Instrumentation, and equipment for the Micro-Welding and Sheet Metal Welding industries. State-of-the-art Mid-frequency and High-frequency Inverter Power Supplies, Precision Weld Heads and Hand-held Process Analyzers provide “QUALITY Spot Welds made easy.” Matuschek controllers offer Real-Time Adaptive Control, QC Software Solutions, Tolerance Band Control and Fault Alert Capabilities.



**MILCO - WELFORM ELECTRODES**

2147 East Ten Mile Warren, Michigan 48091

 586.755.1184 [welform.com](http://welform.com)**WELFORM PRECISION, LTD.**41 #6 Bldg., 88 Jianeling Road  
Binjiang District, Hangzhou, CHINA 310051 86.571.5668.1915

Cold formed or standard straight electrodes and cap adapters; cold formed or straight, forged, cast and bar stock electrode holders for portable and fixture type resistance welding equipment. Copper and copper alloy materials products for above including backup wedges. Laminated leaf shunts and point holders.

**NIMAK NORTH AMERICA**9415 Weather View Drive, Chattanooga, TN, 37421  
Service & Workshop Center:  
2711 Old Woodruff Road, Greer, SC 29651 423.284.7387 [nimak.us](http://nimak.us)

NIMAK quality – in Germany and around the world. We have our roots in the Westerwald district and work successfully in the whole world. The principle of expansion that is at the root of that is as simple as it is plausible: We accompany the customers wherever they go. And we support them with our experience, our expertise and our solutions in constructing new production plants. On top of that, we are and will continue to accompany our customers anywhere in the world - with our own service and maintenance stations near the factory and our own network of onsite service partners. We manufacture the parts used in our welding guns, plants and gluing and dosing systems in Germany and, with the same high quality, also in China and the USA. That enables us to react flexibly to concrete service requirements onsite and to always bring spare and wearing parts wherever they may be needed.

**NORTH AMERICAN HÖGANÄS**

111 Hoganas Way, Hollsopple PA 15935-6416

 814.479.3500 [hoganas.com](http://hoganas.com)

North American Höganäs, Inc. is a producer of metal powders committed to advancing the resistance welding industry through the development of more efficient welding electrode materials. NAH currently manufactures and supplies high quality dispersion strengthened copper in the form of bar stock coils to be formed into electrodes by various manufactures. This dispersion strengthened copper has been used successfully in numerous applications due to its retention of high temperature hardness, resistance to sticking, and superior weld quality. Feel free to contact North American Höganäs with your resistance welding electrode material needs and we will do our best to design, manufacture, and supply you with the best material to do the job.

## **NSRW**

701 Thames Court, PO Box 1147, Pelham, AL 35124

 205.663.1500

 [nsrw.com](http://nsrw.com)

NSRW is a full-service resistance welding manufacturer and supplier for the resistance welding process, carrying a complete inventory of copper rod, bar and plate in RWMA classes 2, 3, 4, and 110 Bus Class 11 and 12 copper tungsten, 13 tungsten, 14 molybdenum and Anviloy 1150 are also available. In stock and ready to ship a complete line of resistance welding supplies including electrodes, caps, shanks, adapters, seam weld wheels, air- and water-cooled welding cables, transformers, SCR's and controls. Engineering available to assist your manufacturing needs. NSRW can design new machines or remanufacture existing equipment to meet your specific requirements. In-house tooling design and service. Seminars are also available.

## **OBARA CORP. USA**

1346 Jamike Lane, Erlanger, KY 41018

 859.283.5490

 [obarausa.com](http://obarausa.com)

BRANCHES:

### **Obara Corp.**

26800 Meadowbrook Road, Suite 111  
Novi, MI 48377

 586.755.1250

### **Mexico**

Obara Mexico, S. de R.L. de C.V.  
Aguascalientes, Ags.

 011.52.449.971.1525

### **Brazil**

Obara Tecnologias E Produtos De Soldagem LTDA.

 +55.11.4390.5615 | +55.11.98305.5257

 [obarabrasil.com.br](http://obarabrasil.com.br)

Manufacturer of a complete line of resistance welding equipment and supplies: including X2C lightweight servo guns, actuators, AC-DC transformers, air robot welding guns, cylinders, fixture guns, manual integrated weld guns, air and water cooled cables, shunts, adapters, electrodes, timer-controllers, tip dressers, tip changers, cutter blades and most other resistance welding products. Services include design engineering, site support, weld gun rebuilding, maintenance training, spare part support and other technical training.

## **PLANSEE USA**

115 Constitution Boulevard, Franklin, MA 02038

 508.553.3800

 [plansee.com](http://plansee.com)

Plansee manufactures resistance welding electrodes made from tungsten-copper, tungsten and molybdenum with a high level of electrical conductivity and outstanding stability

at high temperatures. Being used in spot welding, roller welding, projection or upset welding, Plansee's electrodes have a considerably longer service life than other materials. Specializing in machining and fabrication of molybdenum and tungsten products, Plansee USA is the North American headquarters for all Plansee High Performance Materials.

## **RESISTANCE WELDING CONTROLS (RWC)**

PO Box 3153, Bethlehem, PA 18107

☎ 484.898.0257

💻 [rwcllc.net](http://rwcllc.net)

Resistance Welding Controls, LLC provides economical welding control solutions for all types of spot-welding machines. Recognizing a need in the marketplace for a more affordable and dependable solutions, our scalable weld controls offer value and dependability in an easy to understand product. In addition, our machinery side of the business offers cost-effective spot-welding machines and automation systems. Let us work with you to offer solutions for your design and process management needs. We can help you with whitegoods, wire goods, electronics, automotive and construction needs.

## **RESISTANCE WELDING MACHINE & ACCESSORY**

255 Palladium Drive, St. Joseph, MI 49085

☎ 269.428.4770

💻 [resweld.com](http://resweld.com)

Resistance Welding Machine & Accessory, with operational and warehouse locations in (St. Joseph, Michigan) Resistance Welding Machine & Accessory is a full-service distributor and manufacturer that has been providing quality spot welding supplies and equipment since 1987. However, they are not just another spot-welding supply company like so many others, they are resistance welding specialists. Their sales engineers and customer service representatives are the most knowledgeable in our industry and can aid in choosing the proper spot-welding supplies and machinery for the job at the best value. They keep large inventories of the most common spot-welding consumables, along with copper bar stock and special metals.

If the right spot weld item is not available from their thousands of standard products, they also offer the design and manufacture of special electrodes, tooling, and fixtures to create a custom solution to meet your needs.



## **RoMAN MANUFACTURING**

861 47th Street SW, Grand Rapids, MI 49509-5103

 616.530.8641

 [romanmfg.com](http://romanmfg.com)

Resistance welding transformers and special water-cooled transformers; MFDC Inverter Power Supplies, Three Phase DC Power Supplies, Frequency Converters; manual and motorized tap switches; electrical insulation fabrications: non-ferrous castings and patterns. Complete repair and rebuild services for all brands.

## **SHERBROOKE METALS CORPORATION**

36490 Reading Avenue, Willoughby, OH 44094

 440.942.3520

 [sherbrookemetals.com](http://sherbrookemetals.com)

Sherbrooke Metals Corporation is a primary manufacturer of copper-tungsten and silver-tungsten materials. In addition to making these products, they stock pure Molybdenum and Tungsten in both rod and plate. These materials are cut and ground to customer specifications.

## **SOUTHERN COPPER & SUPPLY**

875 Yeager Parkway, Pelham, AL 35124-1846

 205.664.9440

 [southerncopper.com](http://southerncopper.com)

Southern Copper and Supply is a reliable source for resistance welding materials and nonferrous metals. They offer an extensive range of raw materials and custom parts to cater to specific customer requirements. What sets them apart is their commitment to reliable, prompt, and knowledgeable customer service. At Southern Copper, customer satisfaction is a top priority, and they strive to offer exceptional service even after the sale.

## **STANDARD RESISTANCE WELDER COMPANY DIVISION OF JIM DALLY & ASSOC., INC.**

7833 Conners Road PO Box 268, Winston, GA 30187-1463

 770.949.2479

 [srwelder.com](http://srwelder.com)

Standard Resistance Welder Company is the manufacturer of the Standard Resistance Welding Spot, Seam, Butt, Flash, Projection, Press and Bench Welders. We also specialize in Portable Gun Welders, Special Multi-Spot, Projection and Seam Welders and Dial Index Welders. Special fixtures and transfers. Automated Arc welding fixtures. Assembly type welding machines. Three-phase DC and Mid Frequency. Wire forming equipment. Full-service OEM manufacturer. Schools/Training. Inventory stocking distributor of consumable products. We offer schools, training, and service.

**S**ince 1987 we have been designing, manufacturing, and supplying resistance welding electrodes, fixtures, and tooling to industries throughout the nation and across the globe.

Resistance Welding Machine & Accessory can assist you in the purchase of spare parts for resistance welding machinery. Our sales engineers and customer service reps are the most knowledgeable in our industry and can offer assistance in choosing the proper electrodes for the job.

We keep large inventories of the most common spot welding tips, caps, shanks, threaded adapters, cap adapters, cables, and shunts, along with copper bar stock and special metals. We also have an in house full service machine shop to help provide the fastest turnaround in our industry. We will take the worry out of purchasing your resistance welding needs.

Have one of our sales engineers contact you to discuss your specific needs. Put a resistance welding professional to work for you today and you will find we really do offer **"Everything for Resistance Welding"**.



**RESISTANCE  
WELDING**  
MACHINE & ACCESSORY  
ResWeld.com

**Home Office: 255 Palladium Drive, St. Joseph, MI 49085**  
**Phone: (269) 428-4770 • Email: sales@resweld.com**  
**www.resweld.com**

## **STRUNK CONNECT GMBH & CO. KG**

57548 Kirchen (Sieg), Germany

 +49 (2741) 93 87 10 -100

 [strunk.de](http://strunk.de)

We are an owner-managed, internationally active medium-sized company with around 70 employees. Our activities focus on developing, designing, manufacturing and distributing “turn-key” customized machines including automation technology for e-mobility for national and international automotive manufacturers.

## **SUNSTONE ENGINEERING LLC**

1693 W American Way Ste 5, Payson, UT, US, 84651-5586

 +1 801-658-0015

 [sunstonewelders.com](http://sunstonewelders.com)

Sunstone Engineering LLC designs and manufactures high-tech micro welding and engraving solutions for many different industries. In short, wherever a very small spot weld is needed in a very precise location, you'll find a Sunstone welder. Jewelers, power cell manufacturers, aerospace companies, automotive groups, orthodontists, dental labs, and electronics manufacturers need a Sunstone welder to assist them in the manufacturing process. Sunstone welders are used by Apple, NASA, MIT, GE, HP, SpaceX, Lockheed Martin, Boeing, Harley-Davidson, and multiple government and military agencies. The Sunstone product line includes laser, pulse arc, capacitive discharge, AC, linear DC, HF inverter, and hot bar reflow welding systems. The bulk of our products are designed and manufactured in Utah while other products are manufactured via key partner relationships. The company sells and ships welders to all parts of the world.

## **TAYLOR-WINFIELD TECHNOLOGIES**

3200 Innovation Place, Youngstown, Ohio 44509

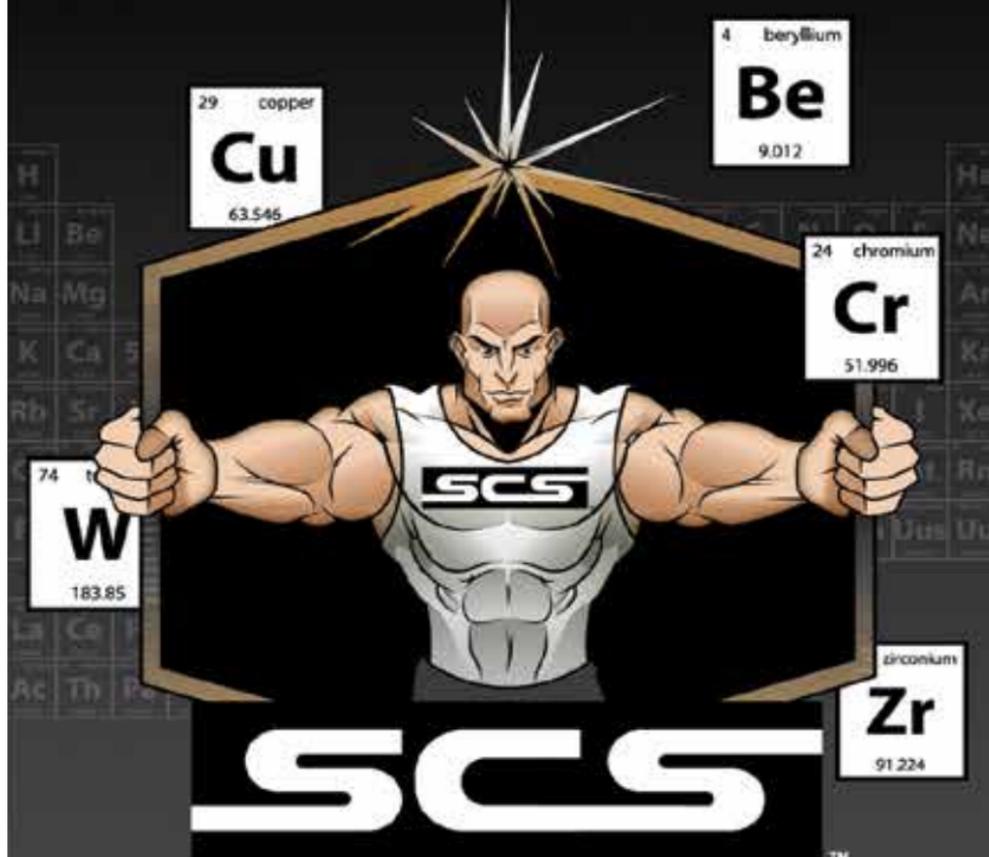
 330.259.8500 | Service: 330.259.8561

 [taylor-winfield.com](http://taylor-winfield.com)

Taylor-Winfield has been a leader in resistance welding technology since the early 20th century, playing a key role in establishing and contributing to RWMA industry standards. Our product lineup includes a wide range of standard and custom solutions, powered by pneumatic, hydraulic, and servo-driven systems. We offer spot, seam, projection, flash, multi-gun, and capacitive discharge welding technologies. These are available as standalone machines or as part of fully automated turnkey systems, complete with custom tooling, robotics, and other forms of advanced automation.

From our heavy-duty, customizable Signature Series welders—renowned for their durability and ability to produce repeatable Class A and MIL-spec welds—to our economical Essential Series welders, designed for lighter-duty applications, we have a solution to meet your needs. Our product lineup also includes advanced coil joining welders for steel strip processing, offering seam, spot and laser welding options.

We go beyond machinery by providing comprehensive “life support” services, including research and development, operator training, field service, and aftermarket spare parts, ensuring your machines remain in peak condition for decades. Taylor-Winfield is known for building reliable, long-lasting machines. When you choose a Taylor-Winfield welder, you're investing in decades of dependable performance.



SOUTHERN COPPER & SUPPLY COMPANY, INC.

EST. 1988

Metals Service Center  
where you can find  
**EVERYTHING**  
under ONE roof!

**WATERJET**  
**KNOWLEDGE**  
**MACHINE SHOP**  
**INVENTORY**  
**EXPERIENCE**  
**SERVICE**

800-289-2728

[www.southerncopper.com](http://www.southerncopper.com)

## TECNA

Via Meucci, 27,40024 Castel San Pietro Terme, Bologna ITALY

 39.051.695.4411 | 908.247.6220

 [tecna.net](http://tecna.net) | [tecnadirect.com](http://tecnadirect.com)

TECNA, leading manufacturer of resistance welding equipment and balancers, has been designing, manufacturing and selling resistance welding equipment and systems as well as other equipment for the manufacturing industry for over 40 years. The TECNA products are 100% designed and manufactured in Italy and represent the solution for whatever kind of application in the manufacturing industry. We're glad to announce that TECNA has established its US subsidiary, TECNA USA INC., a daughter company of TECNA S.p.A., with the aim to provide the TECNA customers with in-country direct support. TECNA USA sells its products in the USA through a network of appointed distributors who stock products and spare parts and are capable and trained to provide technical support and after-sales services.

## TIPALOY

1435 East Milwaukee Avenue, Detroit, MI 48211-2009

 313.875.5145

 [tipaloy.com](http://tipaloy.com)

See our web site for downloadable catalog and new products sheets. Standard single and multiple cylinder design welders. Dedicated welders for resistance welding applications, including design, engineering, and assembly. In house Resistance welding lab. Onsite resistance welding seminars and consulting. Tips: male and female cap tips, cold-formed tips and shanks, special design tips, large round, square and rectangular faced tips, threaded tips, copper tungsten faced tips, and swivel style tips. Projection stud and nut tips both threaded and tapered. Tips and assemblies designed for projection nut and stud feeders. Build-A-Die components complementing our available standard tips. Gun shanks and arms. Holders: straight, offset, and specials. Pipe and straight thread adapters. Cables: dry, water cooled, kickless and laminates. Forgings: seam welder wheels, rough and machined forgings. RWMA alloys: rod & bar, castings. Accessories: manual & pneumatic tip dressers and cutters, pressure gauges. Welding controls, transformers and cylinders.

## T.J. SNOW COMPANY

120 Nowlin Lane, P.O. Box 22847, Chattanooga, TN 37422

 423.894.6234

 [tjsnow.com](http://tjsnow.com)

T. J. Snow offers a broad range of standard and special design resistance welders, from single station machines to complex production systems. Resistance welding machines of all types are available, including spot, bench, projection, seam, multi-gun and flash/butt welders. Special fixtures and tooling are also available. In addition, a large inventory of used resistance welders and controls are offered in refurbished or completely remanufactured condition. T. J. Snow is known for quick-response on-site resistance welder and control service and two corporate aircraft make traveling to customers' plant locations direct and non-stop. To help customers succeed with

the resistance welding process, seminars and hands-on training classes are offered in-plant, at our Chattanooga facility, and at various locations around the country. A large and diverse inventory of resistance welding supplies is maintained in Chattanooga for same-day shipment, including electrodes, holders, transformers, wheels, adapters, cables, jumpers, copper alloy rod and bar stock, controls, monitors, industrial water chillers, SCRs and other specialized parts and accessories.

## TUFFALOY PRODUCTS

1400 S. Batesville Road, Greer, SC 29650

 864.879-0763

 [tuffaloy.com](http://tuffaloy.com)

All Standard Spot welding electrodes including caps "CAMELEON/MAXLIFE™, GCAP®, MCAP® and FIN CAP®", standard electrodes – straight and cold formed: Holders including straight, offset, proprietary holders "ULTRA PRESSURE®" Fast Follow Up, "NU-TWIST®", "Equa-Tip and Equa-Press" dual tip holders: Projection Welding dies and fixtures (design and build): complete range of RWMA alloys in the form of wrought bar, casting, forgings, copper tungsten alloys: seam welding wheels new or reworked: complete line of force gauges: Arctic stud and nut welding electrodes with 10W facing: backup electrodes: weld gun shanks and adapters: "S" series self-dressing caps.

### Resistance Welding Products

9270 Middle Line Road Blenheim, Ontario, NOP 1A0 CANADA

 519.676.8173

 [tuffaloy.com/about/resistance-welding-products-ltd](http://tuffaloy.com/about/resistance-welding-products-ltd)

## UNITROL ELECTRONICS

702 Landwehr Road, Northbrook, IL 60062-2310

 847.480.0115

 [unitrol-electronics.com](http://unitrol-electronics.com)

Unitrol Electronics, Inc., manufactures microcomputer solid-state resistance welding controls using either keypad or thumbwheel entry, and featuring SOFT TOUCH, a welder safety system. Systems include water and air-cooled SCR contactors. Controls supplied in single and three-phase styles for commercial and MIL-spec welding in sizes to match any welding machine. Available options include constant current, electrode force measurement, communication ports, and electronically set air pressure regulators. All controls feature a minimum of components and utilize design that eliminates wiring cables, ribbon cables, and unnecessary hardware. Available in single SCR and up to 15 SCR contactor styles with ability to control up to 16 solenoid valves and monitor up to 5 proximity switches. TEMPERATURE FEEDBACK: Unitrol specializes in total feedback resistance brazing systems that replace torch and oven brazing on many components. WATER CHILLERS: Unitrol manufactures water chillers that are balanced for spot welder applications. Complete package water chillers are available up to 50 tons in all standard voltages.

## **WATTEREDGE, A SOUTHWIRE COMPANY**

567 Miller Road, Avon Lake, OH 44012

 440.933.6110

 [watteredge.com](http://watteredge.com)

Manufacturer of air and water-cooled resistance welding cables, including heavy duty kickless cables. We also produce copper laminated shunts, both in the press-welded and riveted style. We can provide a complete robot dress-out package, which includes heavy duty abrasion and heat protection items. Finally, cables for a variety of applications, including furnace, vacuum and induction. This includes specialty items, such as flat braided flexible connectors and ground cables for power generation applications. Secondary power applications, with regard to air-cooled and water-cooled applications, is our specialty.

## **WELDCOMPUTER CORPORATION**

105 Jordan Road, Troy, NY 12180

 800.553.9353

 [weldcomputer.com](http://weldcomputer.com)

WeldComputer Corporation manufactures a broad line of high-performance controls and monitors for automotive, commercial, military and aerospace resistance welding applications. Products work with spot, projection, seam, flash, stud and capacitive discharge welding equipment to improve weld quality, increase weld consistency and throughput, reduce scrap, and improve worker safety. Controls and monitors help reduce costs and improve quality assurance beyond what can be achieved with conventional equipment. Monitoring products prevent bad welds from passing through production undetected. Adaptive controls reduce incidence of bad welds and increase consistency of all welds produced. WeldComputer® Adaptive Controls have been granted military approval to eliminate destructive testing. Inverter and SCR based controls emulate any control function and connect directly to any welding transformer. Expert consulting services available to analyze welding operations, provide practical solutions to improve welding performance and reduce losses from machine inconsistencies and weld variability.



**Become an active member in  
the RWMA community.**

visit [aws.org/rwma](http://aws.org/rwma)

TAKING

# RESISTANCE WELDING

TO THE NEXT LEVEL WITH

# AUTOMATION



Resistance  
Welding



Robotic  
Integration

**TW** Taylor  
Winfield  
Technologies, Inc.

## NEW & USED WELDERS



Spot/Projection



Seam



Flash



Multi- Gun



Upgrades



Custom

## SUPPORT SERVICES



Spare  
Parts



Research &  
Development



Copper  
Consumables



Field  
Service



Welding  
Accessories



Operator  
Training



3200 Innovation Place | Youngstown, Ohio 44509  
Phone: 330.259.8500 | [www.taylor-winfield.com](http://www.taylor-winfield.com)  
Email: [info@taylor-winfield.com](mailto:info@taylor-winfield.com)



## **WELDSTONE AMERICAS, LLC**

6901 Bryan Dairy Road, Suite 110, Largo, Florida 33777

 727.546.9600

 [anviloy.com](http://anviloy.com)

WELDSTONE Americas, LLC is the sole provider of TUCOMET® Tungsten Copper Alloy products in The Americas. WELDSTONE offers a broad range of TUCOMET® formulas for applications in resistance welding, EDM, heat sinks, and electrical contacts. WELDSTONE is also the sole source of ANVILOY® Tungsten Heavy Alloys in The Americas – providing custom tungsten heavy alloy solutions for Aerospace, Die Casting, Medical, Nuclear, Oil & Gas, Precision Tooling, Automotive, and High-Performance Racing applications. Request a quote online at [www.anviloy.com](http://www.anviloy.com).

WELDSTONE Americas, LLC, is part of the WELDSTONE Group. The WELDSTONE Group has sales and service locations in Europe, North and South America, and Asia, and is a leading manufacturer of tungsten products. In addition to tungsten heavy alloys, tungsten copper heavy alloys, and tailor-made tungsten special alloys, the product range also includes welding and plasma electrodes. The group controls the entire production process from raw materials, such as ammonium paratungstate (APW) and tungsten copper, to the finished product. This guarantees a consistently high quality of the products. The WELDSTONE Group is part of the ABICOR GROUP, a division within Industrie-Beteiligungs-Gesellschaft (the IBG Group), a diversified, globally-active conglomerate based in Cologne, Germany. THE IBG GROUP is comprised of more than 2,500 employees, 79 consolidated subsidiaries, and affiliated worldwide companies in 39 countries – with a company history that goes back more than 100 years.

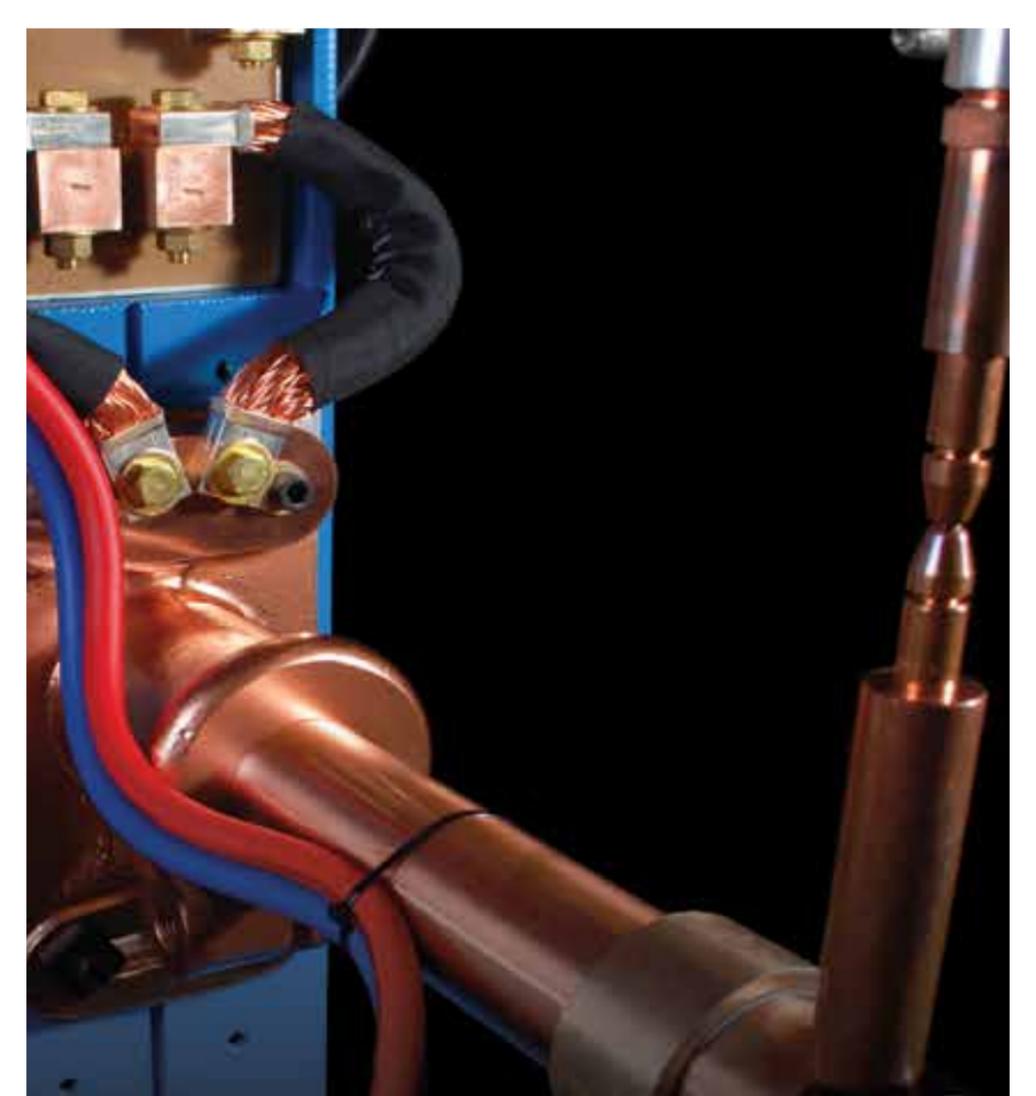
## **WORTON MANUFACTURING**

355 Signet Drive, Toronto, Ontario M9L 1V3 CANADA

 416.749.6060

 [worco.net](http://worco.net)

Worton Manufacturing manufactures resistance welding consumables offering a complete line of tips, holders and accessories. Since 1963, Worton has developed its expertise as a manufacturer servicing welding markets. The latest in precision equipment allows them to process all metals with expertise in copper, brass, aluminum and stainless steel. “Take a Tip from Worco.”



*The*  
**RESISTANCE  
WELDING  
ONE-SPOT-SHOP**

New, Used & Custom Machinery | Consumables & Supplies  
Service & Repairs | Process Training | Water Chillers



**T. J. SNOW**

(423) 894-6234 | [tjsnow.com](http://tjsnow.com) | Chattanooga, TN

# **SUPERIOR TUNGSTEN-COPPER MATERIALS FOR RESISTANCE WELDING**



- ✓ **ENGINEERED SOLUTIONS**
- ✓ **NET SHAPE AND CUSTOM SIZES**
- ✓ **FULL MACHINING SERVICES**
- ✓ **STANDARD INVENTORY OF RODS, BARS, DISCS AND BRAZED BLANKS**

Available in The Americas from



WELDSTONE Americas, LLC  
Largo, Florida, USA

 (727)256-7166

 sales.us@weldstone.com

**For more info, visit ANVILOY.com**



# Cadi Company Inc.

*Distributor and Manufacturer of High  
Conductivity Copper Alloys and Resistance  
Welding Products*

**Call Cadi for Copper Alloys:**

**800-243-3650 203-729-1111**

**sales@cadicompany.com**

**www.cadicompany.com**

60 Rado Drive, PO Box 1127, Naugatuck, CT 06770



**RWMA Copper Alloys**

**Rod, Bar, Plate, Shapes, Coil**

**Weld Wheels Finished & Blanks**

**Class 1 – C15000**

**Class 2 – C18200 & C18150**

**Class 3 – C18000 & C17510**

**Class 4 – C17200**

**Refractory Metals**

**Resistance Welding Products**



**ISO Certified**

*From our stock to your dock, when you need it!*



**MANUFACTURERS  
OF  
COPPER  
AND  
SILVER  
TUNGSTEN**

**DISCS • BARS  
RINGS • RODS  
SPECIAL SHAPES**

Phone: 800-922-7437

Fax: 440-942-5580

[tungsten@smc-usa.net](mailto:tungsten@smc-usa.net)

36490 Reading Avenue

Willoughby, OH 44094

[www.sherbrookemetals.com](http://www.sherbrookemetals.com)