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Resistance Welding Excellence



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Joining to Promote Resistance Welding Excellence



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Richard Holdren



RWMA Chair, 2025
Niels Johnson
RoMan MFG



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 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

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

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

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

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

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



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



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 RMWA Individual Member!

 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



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

Contact rwma@aws.org or visit 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

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.

High Point, NC..... January 22-23
 Monterrey, Mexico May 6-7
 Grand Rapids, MI December 10-11

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

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

RWMA Scholarships - Submission of Applications:

The deadline to apply for all National Scholarships is **March 1st** for funds to be used in the fall term.

OPPORTUNITIES AT A GLANCE:

FABTECH Expo 2025

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.

Chicago, IL September 8-11

 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.

RWMA edition July 2025

Closes for articles May 5

Advertising May 30

✉ **Scott Beller** at sbeller@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** at sbeller@aws.org

Stay tuned for the 2025 RWMA Annual Meeting and Symposium

 aws.org/about/industry-partners/rwma/

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ACME ELECTRIC WELDER COMPANY

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

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💻 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

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

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.



Join Now and Help Strengthen the Industry

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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




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ASTARAS

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 727.546.9600


 astaras.com

Astaras provides TUCOMET® Tungsten Copper products in a broad range of formulas for applications in resistance welding, EDM, heat sinks, and electrical contacts. Astaras is also home to ANVILOY Tungsten Alloys, providing custom tungsten solutions for Aerospace, Die Casting, Medical, Homeland Security, Nuclear, Oil & Gas, Precision Tooling, Automotive, and High-Performance Racing applications.

Astaras, Inc. was founded in 2000 and is the foremost leader in private branded MIG guns, TIG torches, Gouging torches, Tungsten Electrodes, and welding consumables in North America. Astaras is also one of the largest suppliers of tungsten electrodes in the U.S., including proprietary E3® tungsten electrodes (purple color code). Astaras is part of the IBG Group, an international holding company with 18 production facilities worldwide. We import OEM-quality parts to our facility in Florida to manufacture and supply top quality TIG Torches, MIG Guns, Gouging Torches and related consumables for our customers.

AUTOMATION INTERNATIONAL

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 217.446.9500

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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.

BUCKEYE FASTENERS

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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.



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Engineered solutions.

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CADI COMPANY

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 800.243.3650

 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.

CENTERLINE (WINDSOR) LIMITED


415 Morton Drive, Windsor, Ontario N9J 3T8 CANADA

 519.734.8464

 cntrline.com

BRANCHES

PO Box 321187, Detroit, MI 48232-1187

 313.962.1448


We provide a broad range of spot welding gun solutions in both standard and custom configurations, such as the FlexGun™. Its designs ensure efficiency, reliability, and consistent weld quality for any production resistance welding need, whether robotic, fixture, or portable handheld. We also manufacture and supply resistance welding consumables available in a range of copper alloys, offering a variety of standard and custom electrode products that meet North American and European standards. Our product solutions are pre-engineered, supplied complete, and fully tested. They come with 3D models and documentation for easy integration. Some of our offerings include KapTec™, PedTec™, SoftMount™ Gun, FlexFast™, and High-Speed Fastener Solutions™. All our fastener solutions feature integrated VeriFast™ process monitoring systems.

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

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.



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CenterLine's KapTec™ Cap Maintenance System is a solution for all cap servicing needs. The KapTec™ product family is designed to dress caps and automate the cap changing process, offering:

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- ✓ reduced maintenance requirements
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- ✓ simplified robot teaching

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1-800-771-6172


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CYBERSMITH ENGINEERING

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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

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

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.

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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

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

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Eje 1, No. 484, Parque Industrial FINSA
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México, 25904

 864.416.0190 entron.mx**ERIE INDUSTRIAL PRODUCTS**


248 Artino Street, Oberlin, OH 44074

 440.926.4000 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

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

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

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

OTHER BRANCHES:

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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

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

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.

SOLUTIONS & INTEGRATION



Stock & Custom Welding Solutions.

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

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.
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☎ +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.

IBC ADVANCED ALLOYS

COPPER ALLOYS DIVISION
401 Arvin Road, Franklin, IN 46131

☎ 800.423.5612

💻 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.

INDUSTRIAL SUPPLIER LAREY

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

☎ 956.982.1350

💻 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

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.

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

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

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

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.

NEWCOR

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616.395.0230

koops.com

LUVATA OHIO

1376 Pittsburgh Drive, Delaware, OH 43015

☎ 740.363.1981

💻 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

MACOSA is a company dedicated to the manufacture and distribution of products related to cooper 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

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

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

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

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 Hoganäs Way, Hollsopple PA 15935-6416


 814.479.3500

 hoganäs.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

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

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

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

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

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

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

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.

Since 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

SHERBROOKE METALS CORPORATION

36490 Reading Avenue, Willoughby, OH 44094


 440.942.3520

 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

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

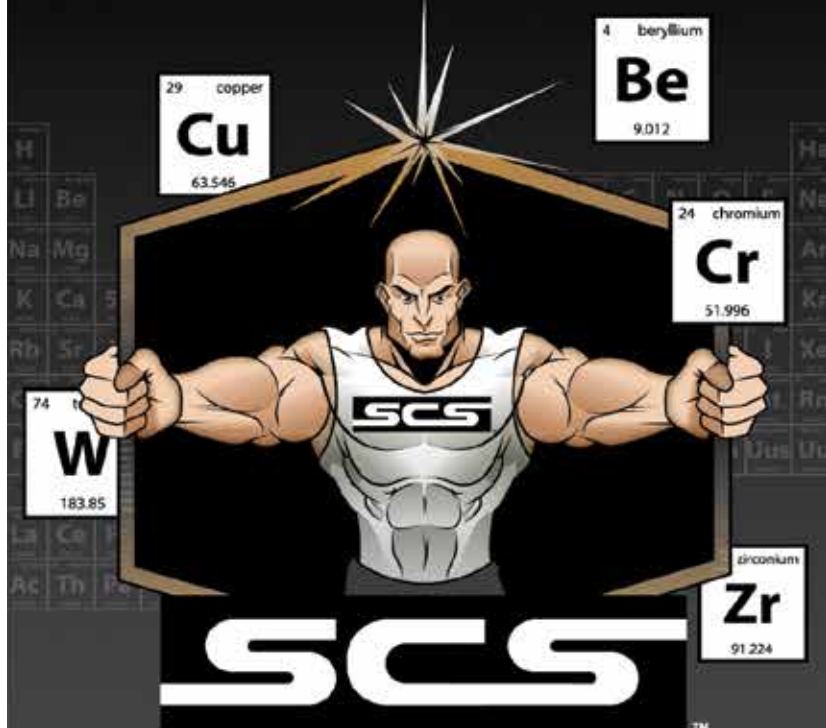
 srwelder.com

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.



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SUNSTONE ENGINEERING LLC

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


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 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

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.

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Operator
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3200 Innovation Place | Youngstown, Ohio 44509
Phone: 330.259.8500 | www.taylor-winfield.com
Email: info@taylor-winfield.com



TECNA

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

☎ 39.051.695.4411 | 908.247.6220

💻 tecna.net | 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

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.



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T. J. SNOW

(423) 894-6234 | tjsnow.com | Chattanooga, TN

T.J. SNOW COMPANY

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


 423.894.6234

 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

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

UNITROL ELECTRONICS

702 Landwehr Road, Northbrook, IL 60062-2310

 847.480.0115


 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.

WATEREDGE, A SOUTHWIRE COMPANY

567 Miller Road, Avon Lake, OH 44012


 440.933.6110

 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


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