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Phone: 305.443.9353
Email: rwma@aws.org
aws.org/rwma

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Robert W. Roth

RWMA Chair, 2020
Don DeCorte
RoMan Manufacturing

RWMA Manager
Adrian Bustillo
Tel: 305-443-9353 Ext. 295
Email: abustillo@aws.org
The Resistance Welding Manufacturing Alliance (RWMA) is an active network of industry professionals dedicated to the advancement of resistance welding. The Alliance supports the industry's highest technical standards, shares best practices and prepares future generations for success—keeping Resistance Welding at the forefront of automotive, aerospace, and industrial manufacturing. As Industry Partners of the American Welding Society, RWMA provides a unique set of rewards enjoyed by its members, in addition to AWS Corporate and Individual member benefits:

ACCESS TO INFORMATION

- RWMA.org
- Quarterly Newsletter
- Networking
- Member Directory
- Welding Journal

RWMA membership provides a gateway to knowledge, news and information through its partnership with AWS. Members receive a listing in the yearly member directory, a quarterly newsletter, and may contribute Q&A articles and editorials in the Welding Journal.

RWMA EVENTS

- Annual Meeting
- Sheet Metal Conference
- FABTECH
- Regional Conference
- Technical Symposium

Attendance and participation at RWMA events are key for extracting relevant information from technical experts and networking with like-minded industry professionals.

EDUCATION & TRAINING

- AWS Online Store
- Welding School
- Online Learning Modules
- CRWT Certification

An educated, trained and certified workforce ensures the continued advancement of personnel, products and services. Serving as a Subject Matter Expert in the development of educational programs impacts the industry and provides opportunities for interaction and collaboration.

INDUSTRY PARTICIPATION

- AWS Standards
- LinkedIn Group
- Awards & Scholarships
- RWMA Committees
- AWS Member Network

RWMA membership positions you and your company to network, acquire knowledge, share best practices, solve problems, obtain solutions and shape the future of resistance welding.
Resistance Welding Publications
Members receive discounts on all AWS & RWMA publications. Visit pubs.aws.org

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. Visit rwma.org

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. Visit awo.aws.org

RWMA Scholarships
RWMA established this scholarship 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. This scholarship is available to U.S. and Canadian citizens who are students majoring in Welding Engineering or Welding Engineering Technology. Visit aws.org/foundation

Certified Resistance Welding Technician
The CRWT certification sets the standard for Resistance Welding training and knowledge. Individuals successfully obtaining this certification gain a competitive advantage and enhanced professional opportunities. Visit aws.org/certification
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 Tiegelman ........................................................... 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 .............................................................. 2013-15
Tom Snow ................................................................. 2016-17
Matt Post ................................................................. 2018-19
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.
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 Bradford – Tuffaloy Products
2012...............................................................Dr. Muralidhar Tumuru - U.S. Steel
2013...............................................................Roger Hirsch – Unitol 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

Contact RWMA @ aws.org to nominate someone for the 2020 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.

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**Become a member**

visit aws.org/rwma
ALPHABETICAL INDEX

A
ACME Electric Welder Company (CA)
Alcavil (Mexico)
Amada Miyachi America (CA)
Astaras (FL)
Automation International (IL)
Aviva Metals (TX)

B
Banner Welder (WI)
Buckeye Fasteners (OH)

C
Cadi Company (CT)
CenterLine (Canada)
ConAn Controles (Brazil)
Cybersmith Engineering (IA)

D
Darrah Electric Company (OH)
Dengensha America Corporation (OH)
Diakont (CA)

E
Eisele Connectors (MI)
Electron Beam Technologies (IL)
ENTRON Controls (SC)
Ewald Instruments Corporation (CT)
EWI (OH)

F
Flex-Cable (MI)
Fronius USA (IN)
Fusion Welding Solutions (MI)

G
G.E. Schmidt (OH)
Gilbert Industrial Inc. (MA)
Glen Dimplex Thermal Solutions (MI)
Guild International (OH)

H
Heron Intelligent Equipment (China)
Huys Industries (Canada)

I
IBC Advanced Alloys (IN)
Industrial Supplier Larey (TX)

J
Janda Company (CA)
Koyo Giken (China)
Kriton Weld Equipments (India)

Koyo Giken (China)
Kriton Weld Equipments (India)

Lebronze Alloy (France)
Luvata Ohio, Inc. (OH)

Lebronze Alloy (France)
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Macosa (Mexico)
Matuschek Welding Products (MI)
MILCO – Welform Electrodes (MI)

Macosa (Mexico)
Matuschek Welding Products (MI)
MILCO – Welform Electrodes (MI)

NIMAK Braeuer North America (GA)
North American Höganäs (PA)
NSRW (AL)

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NSRW (AL)

Obara Corp. (KY)

Obara Corp. (KY)

Plansee USA (MA)

Plansee USA (MA)

Resistance Welding Machine & Accessory (MI)
RoMan Manufacturing (MI)
The Roueche Company LLC (TN)
RWC (PA)

Resistance Welding Machine & Accessory (MI)
RoMan Manufacturing (MI)
The Roueche Company LLC (TN)
RWC (PA)

Sherbrooke Metals (OH)
Southern Copper & Supply (AL)
Standard Resistance Welder (GA)

Sherbrooke Metals (OH)
Southern Copper & Supply (AL)
Standard Resistance Welder (GA)

Taylor-Winfield Technologies (OH)
TECNA (Italy/USA)
Tec-Option (MI)
Techno-Control Cybernetic (Canada)
Tennessee Rand (TN)
Tipaloy (MI)
T.J. Snow Company (TN)
Tower International (MI)
Tuffaloy Products (SC)

Taylor-Winfield Technologies (OH)
TECNA (Italy/USA)
Tec-Option (MI)
Techno-Control Cybernetic (Canada)
Tennessee Rand (TN)
Tipaloy (MI)
T.J. Snow Company (TN)
Tower International (MI)
Tuffaloy Products (SC)

Unitrol Electronics (IL)

Unitrol Electronics (IL)

Watteredge LLC, A Southwire Company (OH)
WeldComputer (NY)
Weld Management Solutions (Canada)
Weld Systems Integrators (OH)
Worton Manufacturing Company (Canada)
Wright-K Technology (MI)

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SEEDORFF ACME CORPORATION
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Phone: 714-252-5330 | sales@seedorffacme.com
seedorffacme.com

KURT SIMON, President/CEO
Email: kurt@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.

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alcavil.com.mx/en/

VICTOR PADILLA, Owner

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.

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Amada Miyachi America, Inc. is the market leader in developing, manufacturing and servicing products and systems for resistance welding, laser welding, laser marking, laser cutting, hermetic sealing and hot bar reflow soldering. The company provides equipment to a wide range of markets including, medical device, automotive, aerospace, defense and solar industries as well as the battery, electric vehicle, electronics and general industrial markets.

ASTARAS, INC.  
6901 Bryan Dairy Road, Suite 160  
Largo, Florida 33777  
Phone: 727-546-9600  |  info@astaras.com  
astaras.com  

Astaras, Inc. founded in 2000 is the foremost leader in private branded MIG, TIG, Gouging and Tungsten Electrodes in North America. Astaras is one of the largest suppliers of tungsten electrodes in the U.S. including the latest innovation in tungsten electrodes, E3®. Astaras is part of the IBG Group, an international holding company with 18 production facilities worldwide. Utilizing these factories, we import OEM quality parts to our facility here in the United States to manufacture and supply top quality TIG Torches, MIG Guns, Gouging Torches and related consumables for our customers. We manufacture all our TIG and Gouging as well as many of our MIG power cables right here in the USA. Tucomet® tungsten-copper products are available in a broad range of formulas for applications in resistance welding, EDM, heat sinks, and electrical contacts. The copper wire, welding cable and hoses that are incorporated in our power cables is purchased from choice USA suppliers.
AUTOMATION INTERNATIONAL, INC.
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JOSH BRAZEL, Assembly/Service Manager
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MATT COOL, Purchasing Manager
Email: mcool@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.

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Foundry:
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International:
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Canada: +1 800 567 4996
Mexico: +018000996436

Over the past 35 years, Aviva Metals has experienced tremendous growth and earned a worldwide reputation as an industry leader. We maintain huge inventories of brass, bronze, and specialty copper alloys. Our production and inventories consist of tubes, rounds, hollows, rectangles, squares, hexagons, wires, and made-to-order shapes for customer specific applications. We are the leading USA alloy manufacturer and distributor of
over one hundred different grades of copper alloys in excess of 5000 metric tons. Aviva Metals has undertaken several large expansion programs over the last 10 years, including our newly commissioned state-of-the-art foundry in Lorain, Ohio. This foundry is now considered the top producing continuous cast foundry in the United States. We have expanded into Europe and opened a warehouse operation in Toulon France, giving Aviva Metals a truly global reach. We foresee even more growth opportunities in the near-term as we continue to add and improve upon our existing services to serve our customers with greater efficiency.

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RON FOREMAN
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LARRY KELLY
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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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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) LTD.
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Phone: 313-961-4080

Manufacturer of standard and custom resistance welding consumables and components including: cold-formed RWMA and ISO cap electrodes; threaded and button caps; nut and projection welding electrodes; machined and formed electrodes; adapters; holders; fabricated and machined welding gun and machine components; plus, tooling and other accessories for welding.

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ConAn Industria e Comercio Ltda. is a Brazilian company dedicated to the area of projects and manufacturing of single phase and three phase DC inverter resistance welding machines. Offering solutions for resistance welding processes for 25 years. We sell electronic controls for the resistance welding process and technical assistance. With an engineering department specialized in the resistance welding process, developing standard and special machines. The solid technical background of its professional staff experienced, through the most varied projects implanted in the last 25 years in Brazil, enables ConAn through its exclusive operational systems to guarantee the most rigorous standards with deliveries and costs that attend to the real needs of its clients.

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.
2020 MEMBERSHIP DIRECTORY

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415 Morton Dr., Windsor ON N9J 3T8
Tel: 519-734-8464 | Email: info@cntrline.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 igniton 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.
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MEXICO – HERMOSILLO
DANIEL BELTRAN, Sales Representative
Phone: 011-52-662-262-7005 | dbeltran@proautomation.com.mx

Founded in 1985, Dengensha America has the world’s most complete line of resistance welding equipment, with welders, weld guns, feeders, controls, consumables, and spare parts, plus world-class training and service. Dengensha equipment is standardized to simplify operation and continuously sets the industry standard for innovation, durability and lasting value – a key reason so many engineers specify Dengensha.
Diakont is a manufacturer of high-performance, long-life servoactuators for use in resistance welding and other applications. The company also provides a full range of products and services that enhance the performance and economy of the automotive, energy, and manufacturing industries. With over 1300 global employees, Diakont provides its clientele with products and services of the highest quality and reliability.

Eisele Connectors supplies the USA, Mexico and Canada with high quality all-metal connectors. Based on our own warehouse in the USA, we provide all Eisele products instantly. Eisele Connectors understands customer needs, provides personal customer support, and delivers quickly. Eisele Connectors is a subsidiary of the German Eisele Pneumatics GmbH & Co. KG, that emerged from a company founded in 1939. With over 70 years’ experience in metal cutting Eisele is one of the world leading suppliers for high quality all-metal connectors. For a variety of industries Eisele developed convincing connection solutions based on interdisciplinary expertise. In August 2014, distribution started in the USA with our own warehouse located in Grand Rapids, Michigan. All products follow US standards and measures. US price lists and catalogues allow you to order quality products made in Germany from a US company under domestic conditions.

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.

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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.
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 hand held 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.
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Miniature to large bench top welding heads, both mechanical and pneumatic, for all sizes of applications, as well as hand-held welding tools and tweezers. Stored energy power supplies to 55 Watt-Seconds, and synchronous and non-synchronous AC timer power supplies up to 34 KVA or larger. They have also designed and manufactured many types of semi and fully automatic welding systems.

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Manufacturers of resistance welding cables, including air-cooled, water-cooled and kickless, laminated shunts, adaptors, induction furnace cables, primary cables, servo cables and robotic dress-out components. Flex-Cable has the capabilities to manufacture all types of custom cables.
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YouTube: https://www.youtube.com/FroniusWelding

Fronius and the Perfect Welding Business Unit have been developing welding technologies and system solutions for arc welding and resistance spot welding since 1950 and have pushed forward the rate of progress in the welding technology sector in leaps and bounds. Today we are the global technology leader in the arc welding technology segment. With our innovative developments we have made applications possible that others had written off as unachievable, such as the thermal joining of steel and aluminum. The range of products offered by the Perfect Welding Business Unit includes manual and automatic power sources and complete systems as well as the related services.

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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

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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.
Gilbert Industrial, Inc., is a full-service organization, in the resistance welding industry, with emphasis in the Aerospace, Mil-Spec, and High-Quality Requirement Fields. They offer a full line of Resistance Welding Machines; New, Re-manufactured, and Retrofits of existing equipment to meet their customer's needs. They also provide complete system integration, as well as design and manufacture of new or existing equipment. They have a large inventory of used resistance welders, and other related parts and accessories.

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

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HERON was founded in 1991 in Guangzhou, with over 300 employees and running more than 54,000 square meters manufacture factory. Heron has the core technology of MFDC, medium voltage capacitor discharge resistance welding, and advanced clinching technology. Heron’s main application industries include automotive manufacturing, automobile parts manufacturing, low-voltage electrical manufacturing, compressor manufacturing, household appliances, hardware manufacturing and motor manufacturing. Heron provides continuously leading-edge energy-saving and environment friendly metal connection equipment, whose customers spread over 10 countries and regions, including the world’s top 500 and other enterprises located in Europe and North America.

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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.

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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.
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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, INC.
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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.

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Koyo Giken was founded in 1976 as a group of mechanical design professionals in Japan. We have provided the highest quality, design and manufacture of the table spot welder, MYSPOT and related machines. MYSPOT has provided revolutionary development and cost efficiency in precision sheet metal industry for 20 years by installing more than 2200 units worldwide. Unlike other conventional spot welders, MYSPOT is equipped with a copper table electrode. The flat table and combination of unique horizontal and vertical guns accomplish high quality and stable spot welding. Compared to conventional spot welders, MYSPOT is perfect for wide variety of applications.
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For over 50 years, Lebronze alloys has been an international reference in the Automotive industry for resistance welding products. Being the only integrated manufacturer, the Group has the indisputable advantage to manufacture 100% of the products in the proper dedicated facilities, where melting, casting, extrusion, drawing, heat treatment, machining and cold forming operations, are permanently controlled by experienced Engineering and Quality Assurance staff. Lebronze alloys manufactures a large range of male and female spot welding electrodes, round bars, flat bars, plates, welding wheels, and any kind of engineered products. 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 copper and nickel alloys pioneer in innovation. The group has always been committed to a process of continuous improvement. This allied with a Research & Development programme launched in partnership with specific automotive manufacturers led to the set-up of a dedicated and exclusive patented manufacturing process for the electrodes. Lebronze alloys’ 4 solutions (CuZr, Powerode®, Powerode+®, Alrode®) are an ideal range of welding products, tailored to cover all customers needs, from coated or uncoated THLE and TTHLE steel sheets welding to aluminum welding.
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Luvata Special Products is the world’s leading manufacturer
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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.

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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.

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NIMAK Braeuer’s core business for North America is to sell and service innovative and modern welding guns and high quality welding machines for automated processes. They established NIMAK-service-hubs in several automotive manufacturing regions with well-trained NIMAK employees to guarantee a fast and professional service to their customers. To ensure a fast delivery of spare parts, NIMAK Braeuer North America produces several spare and consumable parts in the United States of America.
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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 manufacturers. 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.

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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 Anvilo 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.

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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.

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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, 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, 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.
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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.

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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.

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JERRY ROUECHE, President
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THE ROUECHE COMPANY, LLC is a National OEM Builder of Resistance/Arc Welding Machinery, servicing the Automotive, Aerospace, Military and General Metalworking Industries. Our
various staff includes design engineers, assembly technicians, machinist and sales. Our design team is skilled, with nearly a century of combined design/build experience over numerous automotive and industrial applications. This experience allows us to compete globally, with welding equipment and automation placed into production both Nationally and Internationally. All the equipment manufactured by THE ROUECHE COMPANY is backed with complete training, commissioning and support of our staff. We’ve worked hard to build a solid reputation based on ethics, integrity and devotion to our customers. Dedication, expertise and attention to detail by our talented staff are the primary reasons why TRC is held in such high regard by our customers.

SHERBROOKE METALS CORPORATION
36490 Reading Avenue, Willoughby, OH 44094
Phone: 440-942-3520 | tungsten@apk.net
sherbrookemetals.com
RANDOLPH A. SPOTH, CEO
LAURA KRUS, President
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.

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Southern Copper and Supply is a dedicated full-service supplier of resistance welding supplies and nonferrous metals. They can either sell the raw material, or manufacture parts to a customer’s specification. Their commitment is always to their customers. They stock a large variety of items and ship most items the same day.

STANDARD RESISTANCE WELDER CO.
DIVISION OF JIM DALLY & ASSOC., INC.
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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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As a full-service, original equipment manufacturer, Taylor-Winfield Technologies provides simple to complex parts joining, welding, processing and automated assembly systems that give our customers a competitive advantage in their respective industries. Taylor-Winfield provides full design, engineering, assembly, laboratory and testing capabilities to supply machines that suit your needs and delivers years of production output with minimal maintenance and support required.

TECNA S.p.A  
Via Meucci, 27, 40024 Castel San Pietro Terme, Bologna ITALY  
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JAMES FERRARO, TECNA USA Director  
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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.

TECHNO-CONTROL CYBERNETIC, INC.  
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JP DERDEYN, President

Techno-Control Cybernetic, Inc. manufactures dependable single-phase AC digital resistance welding controllers. Our different Series of controllers are available with water-cooled SCR’s, applied pressure monitor control (option), keypad
programming, modular, upgradeable, production-oriented, very user-friendly, and can be adapted to the customer’s specific needs. We supply controllers and control systems that can replace old controllers for all types and various resistance welding applications (rocker arm, seam, butt, multi-head, multiple sequence welders, guns and bench). Specialized in resistance welding controllers, we also offer and manufacture special and standard resistance welding equipment, consulting services, training in resistance welding, and we carry a full line of replacement parts and consumables, including new and rebuilt welding transformers, shunt, resistance welding-related pneumatics, copper alloys, electrodes, etc. Our technical department can upgrade, refurbish, adapt and service to original specification all existing resistance welding equipment. Resistance welding is our expertise.

TEC-OPTION
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Tec-Option is the “Leader in Modular Assembly and Welding Solutions.” The flexible system offers lean manufacturing advantages. Interchangeable tooling modules may consist of part tooling, weld cylinders, poka-yoke, auto fastener feeding and auto unload with conveyor. Operators can change the tool module from one project to the next in less than five minutes, no tools or forklift required. The product line has recently been improved and has evolved into their “Tec-Flex” product, which offers superior flexibility, while maintaining the same excellent quality. This allows a single machine to perform multiple tasks; simple tasks, such as fastener or spot welding, to more complex assemblies that may use MIG welding and material handling (robotics). The Modular Solution provides maximum return on capital investment, reusable assets for further programs, while optimizing machine cycle time. Less floor space is used than with typical automated systems, maximizing production footprint and minimizing wasted space.

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As Lincoln Electric Automation™, we provide turnkey, robotic system integration, integrated tooling, equipment manufacturing, and support services for high volume production. Systems and tooling are provided for resistance, arc, and laser welding applications, including custom and standard robotic welding cells. Quick-reaction service and support is available, including robotic programming, control system programming, and portable CMM capability for tooling adjustments. We produce pneumatic clamps, slides, pin retractors, and touch-screen interfaces.

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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.

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Tower International is a global producer of automotive body structures, lower vehicle structures and suspension components and modules. Their focus is to provide for the structural integrity of the vehicle. Tower provides full product development capabilities ranging from design and analysis to prototype and testing as well as manufacturing. Tower International has
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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.

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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.

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WSI is a manufacturer and distributor of a full line of resistance welding and capacitor discharge machinery, accessories and consumables, an integrator of automated and robotic Resistance/MIG/TIG/Plasma welding cells, and has strong capabilities in industrial, aerospace and medical welding, service, training, welding lab testing and contract engineering. WSI is the industry leader in fastener welding with boron-strengthened ultra-high-strength steels (UHSS) like USIBOR®. WSI is also Stocking Importer and Master Distributor for TECNA S.p.A. Industrial Welding Equipment, Weld Guns, and Spring Balancers. Founded in 2000 by a group of industry veterans, WSI has become a global provider of engineered welding solutions and products for a wide array of industries. WSI is a proud Sustaining Member of the American Welding Society (AWS), the Resistance Welding Manufacturing Alliance (RWMA), as well as WEMCO, an Association of Welding Equipment Manufacturers.

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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.
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VATCHE YEREVANIAN, Owner
Email: vatche@weldms.com

Weld Management Solutions, Inc., (WeldMS) specializes in the real-time monitoring, analysis, management and documentation of flash butt welds. WeldMS can retrofit its monitoring system to all flash butt welders. It can also upgrade older mechanical welding controls to a computerized welding control.

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JONATHAN HORTON, Director of Sales
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Wright-K Technology is a design and build house for custom machines and welding technologies based in Saginaw, Michigan. Merging with Miles Machinery to become Wright-K Technology, Inc. in 1982, we are nationally and internationally known as a premium supplier to industries such as automotive, aerospace, commercial and household products. Acquired by Wright-K Technology in 2008, Newcor Bay City brought an abundance of standard resistance welding machines and knowledge. Our company is housed in 62,000 square feet of manufacturing space and 17,000 square feet of engineering and administrative space. We are partnered with Arplas Welding in Belgium, and our technicians are very experienced in service and repair of Pail and Barrel Welders. Wright-K designs its systems using 3D modeling and thus employs best practices and innovations that benefit our customers. With our expertise in resistance welding, custom machine building, and other welding technologies, we are sure to provide a solution for your company. We encourage you to visit our facility and discuss with our staff about your unique requirements for your manufacturing needs.

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