Resistance Welding Manufacturing Alliance

Joining to Promote Resistance Welding Excellence

2008 Membership Directory
WHAT YOU NEED. WHEN YOU NEED IT.

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E-mail sales@nsrw.com • Website www.nsrw.com
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Resistance Welding Manufacturing Alliance

Joining to Promote Resistance Welding Excellence

550 NW LeJeune Road
Miami FL 33126
(305) 443-9353
(800) 443-9353 – toll free
Fax: (305) 442-7451
E-mail: rwma@aws.org
Web: http://www.aws.org/rwma

Executive Director
American Welding Society
Ray Shook
Ext. 210
rshook@aws.org

RWMA Secretary
Associate Executive Director
American Welding Society
Jeffrey Weber
Ext. 246
jweber@aws.org

RWMA Program Manager
Susan Hopkins
Ext. 295
susan@aws.org
Objectives of the RWMA

- To promote the technical and economic advantages of resistance welding.

- To support education relating to the safe and proper use of equipment and accessories used for resistance welding.

- To promote the advancement of standards and practices relating to the design, testing, installation, operation, and maintenance of resistance welding equipment.

- To support the development and use of process and procedure standards relating to the proper uses of such equipment.

- To encourage industry participation, networking, and the highest standards of conduct.

RWMA Mission Statement

The mission of the RWMA Committee of AWS is to advance resistance welding technology, broaden its use, and promote its economic benefits.
RWMA Officers & Directors

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Janda Company, Inc.
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<td>Roy K. Haugseth</td>
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<td>F. A. “Dutch” Bodenheim</td>
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<td>Dean L. Knoght</td>
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<td>Mondo L. Baldwin</td>
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<tr>
<td>Andrew Hunter</td>
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<td>Larry Moss</td>
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<td>1986</td>
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<td>2006</td>
<td>Sandy Lee</td>
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<td>Howard D. Johnston</td>
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RWMA
Calendar of Events

2008

April 30 - May 2
**RWMA Spring Meeting**
Holiday Inn University Plaza
Bowling Green, Kentucky
*Tour of the Corvette Plant*

October 23 - 25
**RWMA Fall Annual Meeting**
St. Augustine, Florida

October 6-8
**FABTECH INTERNATIONAL & AWS WELDING SHOW**
Las Vegas Convention Center
Las Vegas, Nevada

October 7 -8
**Emmet A. Craig Resistance Welding School**
Las Vegas Convention Center
Las Vegas, Nevada

For a complete list of RWMA Calendar of Events, please visit our Website at [www.aws.org/rwma](http://www.aws.org/rwma)
To promote the resistance welding process, the RWMA offers a variety of publications, articles, videos, schools and manuals, some of which include:

**Resistance Welding Manual**
The most “authoritative text” of the industry. Describes the entire resistance welding process, including theory, methods, materials, equipment and accessories through hundreds of pages of text, photos and graphs.

**The Basics of Resistance Welding**
A comprehensive training video that covers all four processes—spot, projection, seam and flash/butt welding. It explains the basic principles of these processes, the components of the machines, electrodes, tooling, controls and transformers, including basic machine setup. It is a great tool to introduce your new and experienced personnel to the resistance welding process. Also available on DVD.

The Resistance Welding Manufacturing Alliance has set the standard for resistance welding worldwide. RWMA’s most authoritative text about resistance welding industry is an absolute must for anyone who wants to increase production capabilities, upgrade product quality and maximize the use of manufacturing resources. The *Resistance Welding Manual, Revised 4th Edition* describes the entire resistance welding process including theory, methods, materials, equipment and accessories. The revised edition includes many new features such as updated weld processes, new graphic format for easier reading of weld schedules and information on newer metal alloys, such as hot dip galvanized and electro-plated steel.

**Bulletin #5 – Resistance Welding Control Standards**
An extensive publication that examines Single Phase AC, Three Phase AC, Frequency Converter and Inverter controls. The bulletin discusses general standards, terminal markings plus connections, contactors, and enclosure standards used in resistance welding controls.

**Bulletin #14 – Maintenance Manual for Resistance Welding Machines**
Tips on installation, maintenance recommendations, including quality control and preventative maintenance schedules. Geared for both maintenance personnel and the operator. A “troubleshooting” section is included.

**Bulletin #16 – Resistance Welding Equipment Standards**
A comprehensive bulletin consisting of RWMA standards for welding equipment, including electrical, electrode, and fluid-power standards.

**Bulletin #34 – Manufacturers’ Cross Reference of Standard Resistance Welding Electrode Numbers and Alloys**
Includes an extensive cross reference of standard resistance welding electrodes and alloys recognized by the RWMA.
Industry experts from RWMA member companies conduct this two-day introductory course focusing on the cost-effective, highly productive resistance welding process. The school is designed to give operators, production supervisors, engineers and others the opportunity to study, better understand, and further their knowledge in the theory, applications and equipment used in the resistance welding process. This intense learning atmosphere will better prepare the unfamiliar and further educate the experienced. With published handouts and live machine demonstrations, this school combines an instructional forum with open dialogue discussions.

Topics Include:
• Welding Processes and Machines
• Electrodes and Tooling
• Welding Controls
• Electrical Power Systems
• Machine Control Systems
• Machine Set-up

Upcoming Schools

Emmet A. Craig Resistance Welding School
Las Vegas Convention Center
October 7 - 8, 2008
Las Vegas, Nevada

For more information or to register, contact RWMA headquarters at (305) 443-9353, or visit www.aws.org/rwma
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Miyachi Unitek Corporation

CONNECTICUT
Cadi Company, Inc.
Ewald Instruments Corporation/PTS

GEORGIA
Standard Resistance Welder Co.
Division of Jim Dally & Assoc., Inc.

ILLINOIS
Automation International, Inc.
Electron Beam Technologies, Inc.
Sciaky, Inc.
Unitrol Electronics, Inc.

INDIANA
Athena Plus, Inc.
CMW Inc.
Nonferrous Products, Inc.

IOWA
Cybersmith Engineering

KENTUCKY
Obara Corp.

MARYLAND
General Electrode Engineering Co., Inc. (GEECO)
KVA Resistance Welding Supply

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Quality Honeycomb, Inc.
Spotwelding Consultants
WISCONSIN
Banner Welder, Inc.
RES Manufacturing Company

International

AUSTRALIA
Aerosmith Welding

BRAZIL
Conan Ind. E Com de Produtos Eletro-Eletronicos Ltda.

CANADA
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Electrodes & Allied Products Division
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CIS Technical Solutions
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Huys Welding Strategies, Ltd.
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Shanghai Mountain Welding Industries Co., Ltd.

GERMANY
Dimplex Thermal Solutions (Riedel)

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Mechelonic Welders Pvt., Ltd.

ITALY
Tecna S.p.A.

MEXICO
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Dengensha Corp.
ETAL, S.A. de C.V.
Huys Industries Limited
Huys Welding Strategies, Ltd.
Manufacturas en Cobre Aleado S.A. de C.V.
Obara Mexico, S.A. de R.L. de C.V.

UNITED KINGDOM
BF ENTRON, LLC
Luvata Ohio, Inc.
These companies are designers and builders of quality standard and special resistance welding machinery, complete lines of special or multi-purpose high production machines, completely automated production lines, and special automatic production equipment for the metal-working industry which incorporate spot, butt, flash, projection, and seam welding processes.

ACME ELECTRIC WELDER COMPANY
(formerly Seedorff Acme Corporation)
1338 N. Knollwood Circle
Anaheim, CA 92801
Phone: 714-252-5330
Fax: 714-252-5335
E-mail: info@seedorffwelders.com
URL: www.seedorffwelders.com

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E-mail: ernie@seedorffwelders.com
HELMUT SIMON, Engineering
E-mail: helmut@seedorffwelders.com

BRANCHES
TENNESSEE OFFICE
John Dickerson
Phone: 714-925-1581
E-mail: johnd@seedorffwelders.com

PRODUCTS MANUFACTURED
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.

AUTOMATION INTERNATIONAL, INC.
1020 Bahls Street
Danville, IL 61832-3389
Phone: 217-446-9500
217-446-9504
Fax: 217-446-6855
ACME’S BACK

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Reconditioned Welders
Inverter Welders
Bench Welders
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Butt Welders
Gun Welders
Tooling

www.acmewelders.com
Call Toll Free: 866-737-9353

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Spot Welding Consumables and Supplies
AUTOMATION INTERNATIONAL, INC. (cont’d)

E-mail: sales@automation-intl.com
URL: www.automation-intl.com

LARRY E. MOSS, President/CEO
E-mail: lmoss@automation-intl.com

TERRY PROSSER, Vice President/CEO
E-mail: tprosser@automation-intl.com

TIM FOLEY, Sales Manager
E-mail: tfoley@automation-intl.com

SHERIFF MOHAMMED, Engineering Manager
E-mail: smohammed@automation-intl.com

BRIAN GALLAGHER, Production Manager
E-mail: bgallagher@automation-intl.com

PRODUCTS MANUFACTURED:
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 equipment. A.C. and D.C. transformer design and manufacture. Robotic systems, automated arc welding systems, Mil-W spec. welders, technical services, rebuilding expertise, control design and software development.

BANNER WELDER, INC.
N117 W18200 Fulton Drive
Germantown, WI 53022
Phone: 262-253-2900
Fax: 262-253-2919
URL: www.bannerweld.com

JOHN WALDRON, President
E-mail: jwaldron@bannerweld.com

ROBERT KERR, Vice President, Sales
E-mail: bkerr@bannerweld.com

BRAD MARK, CFO
E-mail: bmark@bannerweld.com

PRODUCTS MANUFACTURED:

CASSIMUS COMPANY
14492 Wicks Blvd.
San Leandro, CA 94577
CASSIMUS COMPANY (cont’d)

Phone: 510-352-6700
Fax: 510-352-1103
E-mail: cassimusco@yahoo.com
URL: www.cassimus.com

RICHARD F. CASSIMUS, CEO
MARK W. CASSIMUS, President
DIANA SCHWAN, Office Manager
ALAN BLAU, Parts/Consumables
KARL WEBER, Service Manager

PRODUCTS MANUFACTURED:
Since 1937 Cassimus Company has provided distribution and support throughout the Western U.S. for many quality RWMA manufacturers, while simultaneously offering complete consumables inventory, rebuilding, upgrading, and integration encompassing all classifications of resistance welding. Manufacturers of custom application multi-gun and cascade resistance welding machines, serving Appliance Manufacturers through the Wine and Beverage industry. Specializing in automatic arc weld systems and controls, including turn-key Robotic arc and spot welding cells. Complete parts, service, consumables and consultation.

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Av. Capuava-260
Santo Andre SP 09111-000
BRAZIL
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LUCILENE MIRANDA, Secretary
E-mail: clientes@conancontroles.com.br
SAULO DOS MIRANDA, General Manager
E-mail: sac@conancontroles.com.br

PRODUCTS MANUFACTURED:
ConAn Indústria e Comércio Ltda. is a Brazilian company dedicated to the area of projects and manufacturing of single phase and three phase DC inverter resistance welding machines. Electronic controls for the resistance welding process and technical assistance. Engineering specialized in the resistance welding process develop standard and special machines. The solid technical background of its professional staff experienced through the most varied projects implanted in the last twenty
years in Brazil. This 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.

CONSULTORES Y SERVICIOS INDUSTRIALES, S.A. DE C.V.
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PRODUCTS MANUFACTURED:
Consi is a Mexican company with 16 years experience in the resistance welding industry. Their products include design and manufacturer of the special and standard resistance welders; spot, seam, butt, projection, portable guns from 25 to 250 KVA. Manufacturer of custom application multi-gun, cascade machines and integrate cells. Consi is your source in Mexico for copper alloys and electrodes RWMA classification, complete consumables and spare inventory, such as, SCR, transformers and retrofit Entron and Forwell controls, technical assistance and in-site training and seminars.

CYBERSMITH ENGINEERING
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Forest City, IA 50436
Phone: 641-585-5407
Fax: 641-585-2348
E-mail: jack@cybersmithengr.com
URL: www.cybersmithengr.com

JACK SMITH, President
E-mail: jack@cybersmithengr.com
CYBERSMITH ENGINEERING (cont’d)

PRODUCTS MANUFACTURED:
Cybersmith® Engineering designs and builds special machines and systems. Projects range from simple, stand alone, manually fed machines to fully automatic systems. Machines range from multiple spot welders to multiple RAM projection welders. Examples of our products can be seen on www.cybersmithengr.com.

EWALD INSTRUMENTS CORPORATION/PTS
666 Sharon Turnpike
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Goshen, CT 06756
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Fax: 860-491-9045
E-mail: ewaldcorp@aol.com
URL: www.ewaldinstruments.com
www.ptswelding.com

RICHARD VREELAND, President
E-mail: rsv2@aol.com

PRODUCTS MANUFACTURED:
Ewald Instruments Corporation/PTS is a manufacturer of small and miniature resistance welders, both manual and semi-automatic, and also manufactures a line of welding tweezers and assorted hand tools for resistance welding. All of the foregoing can be used with our small stored energy or AC timer power supplies. Specialize in the application of low voltage, high current for numerous welding, cutting, or heating applications, with an emphasis towards designing to the user’s needs. And now, your supplier/manufacturer of Thomson Resistance Welders and parts for Progressive, Thomson and Stryco Resistance Welding Products.

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GILBERT INDUSTRIAL, INC. (cont’d)

BRANCHES
South Carolina
810 Old Pelzer Road
Piedmont, SC 29673
Phone: 888-225-6721

PRODUCTS MANUFACTURED:
Gilbert Industrial, Inc., is a full-service organization, servicing the resistance welding industry, with a particular emphasis in the aerospace, Mil-Spec, and high-quality requirement fields. They offer a full line of Resistance Welding Machines, and provide new, re-manufactured, or will retrofit your existing equipment to meet their customer’s needs. They also provide complete system integration, as well as design and manufacture new or existing equipment. They have a large inventory of used resistance welders, and other related parts and accessories.

JANDA COMPANY, INC.
1275 Railroad Street
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Phone: 951-734-1935
Fax: 951-734-0649
E-mail: sales@jandawelders.com
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RICHARD GAINER, Sales Director
E-mail: rick@jandawelders.com

PRODUCTS MANUFACTURED:
Manufacturer of Standard and Special Resistance Welding Equipment. Standard line includes Rocker Arm, Press Type and Seam welders available in Single Phase, Three Phase and Frequency Inverters, Multi-Head, Bench Type, Dimple Type, Corner Mesh, Miniature Weld heads, Truss Machines, Butt and T-welders. Janda is also a stocking distributor/manufacturer of all welder components, accessories and supplies including controls, transformers, tensile testers, electrodes and copper bar.
KRITON WELD EQUIPMENTS PVT. LTD.
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Phone: 91-265-2645070
Fax: 91-265-2638761
E-mail: sales@kritonwelders.com
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BRANCHES:
Kriton Welding Equipments Pvt. Ltd.
Plot No. 416, G.I.D.C. Estate
Por-Ramangamdi,
Dist Baroda, Gujrat
INDIA 391243

PRODUCTS MANUFACTURED:
Kriton Weld Equipment manufacturers and exports a wide range of resistance welding equipment since 1973 in India. Products include spot, projection, seam, butt welding equipment, including strip welder, along with shears, PLC, notcher, side guides and weld controllers. Outside India, Kriton has exported equipment to nearly 22 countries. Continuous expansions and developments are regular processes at Kriton. We are distributors of “Unitrol” products in this part of the world.

LORS-TECNA
RESISTANCE WELDING EQUIPMENT
Standard & Special Resistance Welders
RWMA Alloys • Electrodes • Holders • Accessories

STANDARD WELDERS
• Vertical Press-type Spotwelders, 10 to 200 KVA
• Rocker Arm-type Spotwelders, 10 to 150 KVA
• Projection Welders, 30 to 200 KVA
• Butt Welders, 10 to 100 KVA
• Bench-type Welders, 5 to 70 KVA
• 3-Phase D.C. & Mid-Frequency Welders
• Self-contained Suspended Spotwelding Guna, 6 to 75 KVA

MULTIPLE-HEAD WELDERS
• Series-type and Direct welding
• Sequence and Cascade-type controls available
• Special Fixturing, automatic indexing and drive assemblies available for high speed production

SPECIAL DEDICATED WELDERS FOR
Metal Doors • Metal Furniture & Lighting Products
Food Service Equipment • Appliance & Automotive Components • Sheet Metal & Wire Fabricating

LORS machinery, inc.
1090 LOUSONS ROAD, UNION, NJ 07083 • Tel (908)964-9100
http://www.lors.com • email: sales@lors.com • Fax (908)964-4492
LORS MACHINERY, INC.
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PRODUCTS MANUFACTURED:
LORS Machinery, Inc., is a Union, New Jersey based full service resistance welder manufacturer of standard Press, Projection, Rocker-Arm, Bench-Type and Upset Butt welders. LORS also designs and builds multiple-spot and dedicated special welders, together with weld fixtures, special weld tooling, wire bending and trimming equipment. LORS Distributors are located in major manufacturing areas of North America. Markets served also include Central and South America, Asia, Europe, the Mid-East and North Africa. Since 1987, LORS is the exclusive imported/master distributor for the TECNA range of self-contained, suspended portable A.C. and middle frequency inverter D.C. spot welding guns, spring balancers, Rocker-Arm and combination Press Projection/Spot welders, 3-Phase D.C. Rectified and 3-Phase Middle Frequency Inverter Press and Projection welders. LORS stocks an extensive inventory of RWMA copper alloys, CCNB-EH alloy mesh welder electrodes, rod and bar stock, CMW, Pacific and Tuffaloy electrodes and holders. Welding transformers, cylinders, controls, test equipment, water chillers and re-circulators are also stocked. On-site welder repair and upgrades, resistance welding seminars and complete resistance welding tech support are also offered.
MECHELONIC WELDERS PVT., LTD.
#237, A-7, K.I.A.D.B. Industrial Area
Bommmasandra
Bangalore 560099
Karnataka, INDIA
Phone: 91-80-278-33339
Fax: 91-80-278-35383
E-mail: info@mechelonic.com
URL: www.mechelonic.com

MATHEW NEDUMKUNNEL, Director, Business
Development
E-mail: mathew@mechelonic.com

PRODUCTS MANUFACTURED:
Mechelonic Welders Pvt., Ltd., provides contemporary RW technology and solution to their customers that are built to global standards, specification and performance through their strong foundation of “KNOW WHY” principle. Their products are designed around five elements, through which their customers enjoy the best of ROI. They are: productivity, quality, safety, reliability and technology.

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MARTY MEMBORNE, Product Manager
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MIYACHI UNITEK CORPORATION (cont’d)

PRODUCTS MANUFACTURED:
Miyachi Unitek offers turn-key solutions for resistance welding applications including controls, weld heads, weld quality monitors, and resistance weld accessories for precision metals joining of both large and small parts. The laser product line includes pulsed Nd:YAG lasers for welding and marking, and turn-key laser workstations with multi-axis CNC hardware. Through a subsidiary, Unitek EAPRO, B.V., Miyachi Unitek provides systems solutions for reflow soldering and heat seal bonding, as well as resistance and laser welding for the European market. Through a division, Unitek Benchmark, Miyachi Unitek provides turn-key systems for projection welding and seam sealing electronic packages.

MLS SYSTEMS
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Fax: 419-424-3700
E-mail: mls@mlssystems.com
URL: www.mlssystems.com

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JIM SKORUPSKI, Controls Engineer Working Leader
Phone: 419-424-0062, Ext. 203

MIKE CARROLL, Mechanical Engineer Working Leader
Phone: 419-424-0062, Ext. 202

PRODUCTS MANUFACTURED:
MLS systems designs, manufactures, tests, qualifies and ships globally, standard and custom machinery for the Home Appliance, Commercial Appliance, Air handling, Refrigeration, Automotive and other industries.
MLS systems maintain a representation worldwide. MLS systems’ many years of experience includes Resistance Welders and Welding Systems for AC, DC 3 Phase, DC single phase, Mid Frequency, Spot, Projection, Press, Multi-gun, Drop Knee, Dial Table and Special Automated Resistance and Open Arc Welding Machines and Systems. MLS systems can also provide Heron Machine Resistance Welding Equipment, including Press, Spot, Projection, Seam, Rocker arm, Butt and Capacitor Discharge Welders, as well as Ingenia GmbH
MLS SYSTEMS (cont’d)

Plastic Welding equipment. Additionally, MLS systems designs in-house and manufactures stand-alone machinery and complete manufacturing lines for MLS systems and Feldmann, Inc., metal bending and forming machines as well as MLS systems machinery for Trimming and Piercing of plastics and metals, Mechanical joining, Plastic Thermoformers inline and rotary, Assembly machinery, Material Handling equipment and equipment integration systems. MLS systems can also provide rebuilding, remanufacturing and retrofit for existing equipment and spare parts.

NSRW, INC.
NEW SOUTHERN RESISTANCE WELDING
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Fax: 205-663-3221
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KEVIN FELDERHOFF, Vice President, Operations
E-mail: kfelderhoff@nsrw.com
TOM KRISTIANSEN, Senior Engineer
E-mail: tkristiansen@nsrw.com

PRODUCTS MANUFACTURED:
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 II, III, IV 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.

RMSA, INC.
1600 Walnut Street
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RMSA, INC. (cont’d)

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THERESA MUSTACCIO, Director of Operations  
E-mail: Theresa@rmsa-inc.com

SHARON BRAY, Inside Sales Manager  
E-mail: sbray09@aol.com

PRODUCTS MANUFACTURED:
RMSA, Inc. has been serving the resistance welding industry for more than 15 years. They currently stock a wide range of equipment and supplies for all of your resistance welding requirements. They are also whole-sale distributors for the industry.

They manufacture Standard Press, Projection, and Rocker-Arm welders. Special designed machines for the resistance and arc welding industry. Full design and build capabilities/engineering and process optimization. Welders rebuilt and repaired, as well as Welding Controls new and repaired.

ROUECHE COMPANY, THE
2305 Dodson Avenue  
Chattanooga, TN 37406  
Phone: 423-622-6694  
Fax: 423-622-6695  
E-mail: jerry@trcwelding.com  
URL: www.trcwelding.com

JERRY M. ROUECHE, President  
GARY DAVENPORT, Plant Manager

PRODUCTS MANUFACTURED:
Our expertise include the design and manufacture of Press Type Spot/Projection Welders, including our new line of Multi-Purpose StreamLine Spot Welders/Projection Welders, Nut Welders, Special Mutiple-Gun Spot Welders and Tooling, Dial Table Welders, Robotic Spot/Arc Welders, Robotic Tooling, re-tooling of existing machinery, along with completely rebuilding existing welding machines of all models, types, and manufacturers.

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PO Box 920  
Bay City, MI 48707-0920
RWC, INC. (cont’d)

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PRODUCTS MANUFACTURED:

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PRODUCTS MANUFACTURED:
Sciaky, Inc. brings to its customers a solid history of quality and dependability, coupled with an innovative attitude. As we near our seventh decade in business, we remain the only company in the world capable of providing Resistance, Advanced Arc, Laser, and Electron Beam welding solutions.
SEEDORFF ACME CORPORATION
(See Acme Electric Welder Company)

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Fax: 86-21-599-46213
E-mail: mt2005@188.com
URL: www.mtwelder.com

KANG HONG, General Manager
E-mail: mt2005@188.com
JIANG YUJIAO, Deputy General Manager
E-mail: jyj@mtwelder.com

PRODUCTS MANUFACTURED:
Shanghai Mountain Welding Industries Co., Ltd., founded in 1992, with headquarters based in Shanghai and boasting a large number of welding experts, Mountain Ltd., features varieties of welding equipment designed and developed by experts with academic background in America and Russia that helped the company in accelerating its transformation of technology into productivity. Mountain Ltd., offers turn-key solution for welding applications. Spot, seam, butt, flash, projection welders, portable gun welders, three phase DC welder. Special welder for shock absorber, wheel rims, back bridges, transmission shaft, brake scotch of automobile and flash welder for rails.

STANDARD RESISTANCE WELDER CO.
DIVISION OF JIM DALLY & ASSOC., INC.
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Winston, GA 30187-1463
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800-365-9943
Fax: 770-489-1826
E-mail: jim@srwelder.com
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JAMES D. DALLY, President
E-mail: jim@srwelder.com
ALEATHA F. DALLY, Secretary/Treasurer
E-mail: faye@srwelder.com

PRODUCTS MANUFACTURED:
Standard Resistance spot, seam, butt, flash, projection
STANDARD RESISTANCE WELDER CO.  
DIVISION OF JIM DALLY & ASSOC., INC.  
(cont’d)


TECNA S.p.A.  
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Castel San Pietro 40024  
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Fax: 011-39-051-695-4490  
E-mail: sales@tecna.net  
URL: www.tecna.net

STEFANO TROCCHI, Commercial Director  
E-mail: sales@tecna.net  
CRISTINA CASADIO, Export Sales  
E-mail: sales@tecna.net

BRANCHES

USA AGENT & IMPORTER:  
LORS Machinery Inc.  
Phone: 908-964-9100  
Fax: 908-964-4492  
Email: sales@lors.com  
URL: www.lors.com

PRODUCTS MANUFACTURED:
Spot and Projection Bench Machines, 16-150 KVA; Medium Frequency versions from 19 up to 36.000A. Single-phase projection linear action welding machines, 35-315 KVA; Medium frequency versions from 18 up to 90.000A. D.C. three-phase linear action welding machines, 100-630 KVA. CNC flexible system for resistance welding, 2-5 axes. Automatic air operated suspended guns with built-in transformer, 16-75 KVA; medium frequency versions from 18 up to 40.000A. Rocker arm spot welders 12-50KVA. Modular spot welders: twin spot, rocker arm, linear action, Welding control units, with microprocessor, ammeter, adaptive, constant current and standard versions. Test and measurement instruments for resistance welding machines. Balancers from 0.4 up to 180 kg, Stroke 1600-3000mm. Welding guns for car body repair, portable and self-contained, hand air operated, single and three-phase medium frequency versions D.C. 2-25 KVA powers.
TEC-OPTION
334 Sherman Street
Blissfield, MI 49228
Phone: 517-486-6055
Fax: 517-486-2352
E-mail: sales@tec-option.com
URL: www.tec-option.com

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DOUG PARKER, General Manager
E-mail: doug@tec-option.com
DANA OSBORNE, Sales Engineering Manager
E-mail: dana@tec-option.com

PRODUCTS MANUFACTURED
Tec-Option is the “Leader in Modular Resistance Welding Solutions”. The flexible systems offer lean manufacturing advantages. Interchangeable tooling modules may consist of part tooling, weld cylinders, poka-yoke, auto fastener feeding and auto unload. Operators can change the tool module from one project to the next in less than ten minutes. The product line has recently been expanded to include the Mini Module for less complicated applications and the Super Module for more complex assemblies. The Modular Solution provides maximum return on capital investment, re-usable assets for further programs, while optimizing machine cycle time. Less floor space is used than with typical automated systems.

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702 Moccasin Bend Road
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Phone: 423-664-7263
Fax: 423-664-7264
E-mail: sales@tennrand.com
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JOHN MEEK, Engineering Manager
E-mail: jmeek@tennrand.com
JOHN SCHAFFER, Account Manager
E-mail: jschaeffer@tennrand.com
PAT McDANIEL, Engineering Team Leader
E-mail: pmcdaniel@tennrand.com
T.J. SNOW

Standard Resistance Welders
New & Remanufactured

Custom Resistance Welders

Robotic Welding Cells

Supplies & Accessories

Call Josh for FAST SERVICE on welders & controls

T.J. SNOW
6207 Jim Snow Way Chattanooga, TN 37421
(423)894-6234  (800)669-7669
www.tjsnow.com
TENNESSEE RAND, INC. (cont’d)

PRODUCTS MANUFACTURED:
Turn-key robotics system integration, production tooling and equipment manufacturing, and support services, are provided for a variety of manufacturing solutions. Providing systems and tooling for resistance, arc, and laser welding applications, including custom and standard robotic welding cells, and special resistance welders. Quick reaction service and support is available, including robotic programming, control system programming, and portable CMM capability for tooling adjustments. A line of pneumatic clamps, slides, pin retractors, and touch-screen interfaces, are produced.

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6207 Jim Snow Way
PO Box 22847
Chattanooga, TN 37422
Phone: 423-894-6234
800-NOW-SNOW
877-WELD-TIP
Fax: 423-892-3889
E-mail: welders@tjsnow.com
URL: www.tjsnow.com

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THOMAS J. SNOW, JR., Chairman/CEO
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JOSH GARMON, Service Department Scheduler
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E-mail: joshgarmon@tjsnow.com

PRODUCTS MANUFACTURED:
Standard and special design resistance welders, from stand-alone machines to multi-station production lines. These machines often include operations other than welding, such as forming or swaging. Special design automatic arc welders. Robotic arc and spot welding
cells, utilizing any brand of robot. Robotic welding positioners. Full line of standard bench type, press type, and flash/butt welders. Special fixtures and tooling. Large inventory of used resistance welders and controls, which are offered reconditioned or completely stripped and remanufactured. Quick-response on-site welder and control troubleshooting service available 24-hours a day, seven days a week with two corporate aircraft. Resistance welding seminars are offered in Chattanooga, plus on-site training and consulting in customers’ plants. Welders certified to military and aircraft specifications. Complete supply of standard resistance welding electrodes, holders, wheels, adapters, cables, jumpers and copper alloy rod and bar stock. Large stock of resistance welder controls, monitors, chillers, SCR’s and other related parts and accessories.

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PRODUCTS MANUFACTURED:
Electrode Division

These companies are manufacturers and metallurgical specialists, producing high quality 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.

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Fax: 248-375-1856

RONALD P. PRATT, Executive Vice President
E-mail: rpratt@cadicompany.com

PRODUCTS MANUFACTURED:
Wrought (extruded and forged) bars available in rounds, rectangles and squares, hexagons and plate. Custom shapes are also produced. Full cutting and machining capabilities enable Cadi to supply materials to cus
COPPER ALLOYS IN STOCK
ISO 9001-2000 REGISTERED

Cadi Company Inc.

ROD BAR PLATE

Class 1 C15000
Class 2 C18150, C18200
Class 3 C17510, C18000
Class 4 C17200

SEAM WELDING WHEEL BLANKS
WELD WHEELS
CLASS 2 AND CLASS 3

Copper Tungsten
Class 10, 11, 12
Tungsten
Molybdenum

Custom Machining Service
Electrodes
Adaptors
Resistance Welding Components
Parts - Made to print

CADI COMPANY
Naugatuck, CT 06770
Toll Free 800 243-3650 US and Canada
Phone 203 729-1111
Fax 203 729-1919
Email sales@cadicompany.com
www.cadicompany.com
CADI COMPANY, INC. (cont’d)

tomer’s specification in RWMA Class 1, 2, 3 and 4 copper alloys. Finished and semi-finished products include resistance welding electrodes, holders, forgings, castings, seam welder wheels, special dies, fixtures, shunts and cables and stud welding collets. Also refractory Metals such as copper tungsten in RWMA Class 10, 11 and 12 as well as Pure Tungsten and Pure Molybdenum, RWMA Class 13 and 14 respectively.

CENTERLINE (WINDSOR) LTD.
ELECTRODES & ALLIED PRODUCTS DIVISION
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MATT SHARRON, Plant Manager
E-mail: msharron@cntrlne.com

BRANCHES
PO Box 321187
Detroit MI 48232-1187
313-961-4080

PRODUCTS MANUFACTURED:
Manufacturer of the complete range 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;
RESISTANCE WELDING CONSUMABLES

ELKALOY® 20 Cap Electrode
CMW® Finned Cap Electrode
GCAP® Electrode
ELKONITE® Copper Tungsten
"NU-TWIST"® Electrode
CHAMELEON / MAXLIFE™

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✓ TECHNOLOGY
✓ RESULTS

www.cmwinc.com

ISO 9001:2000
CENTERLINE (WINDSOR) LTD.
ELECTRODES & ALLIED PRODUCTS
DIVISION (cont’d)

adapters; holders; fabricated and machined welding gun and machine components; plus, tooling and other accessories for welding.

CMW INC.
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Fax: 317-715-2120
E-mail: cmw@cmwinc.com
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DAVE FLECKENSTEIN, Chief Engineer
E-mail: dfleckenstein@cmwinc.com

PRODUCTS MANUFACTURED:
CMW manufactures the broadest line of resistance welding consumables in the industry (holders, cold-formed caps, shanks, adapters, electrodes, and more, including threaded button electrodes and Metric-ISO 5821 and Metric Asian-taper cap electrodes). CMW’s GCAP® electrode is the most economical cap electrode available for high production welding of galvanized steel without dressing. CMW’s Elkonite® copper-tungsten significantly extends electrode life, and can be purchased in bulk or special configurations for resistance welding applications. The new Elkaloy® 20 dispersion strengthened copper cap electrode (patent pending) and CMW® Finned Cap electrode (patent pending) provide unprecedented life and welding efficiency. Services include design engineering, technical support, and training. CMW also is supported by the highest quality distribution network in the industry. For an Authorized Welding Distributor near you, please call or visit www.cmwinc.com.
GENERAL ELECTRODE ENGINEERING CO., INC. (GEECO)
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109 Beaver Court
Cockeysville, MD 21030
Phone: 410-771-3900
Fax: 410-771-1033

MARK SHEA, President
E-mail: mrshea1130@yahoo.com

PRODUCTS MANUFACTURED:
General Electrode Engineering Co., Inc., manufactures specialized electrodes, holders, and assemblies utilized in resistance welding. They specialize in difficult to weld applications where weld quality and electrode longevity are important weld criteria. Their customers often are looking for Sigma 6 production standard of quality. Additionally, they work closely with their customers to address design issues, testing, as well as technical know-how.

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PRODUCTS MANUFACTURED:
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, SORPAS software, FIRSTWELD, and Cost Per Weld unique cost saving programs. Patented Zirco® zirconium oxide and composite zirconium oxide-steel welding and locating pins. Weld training, weld parameter optimization and weld tool fixturing.

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PRODUCTS MANUFACTURED:
Luvata is a leading manufacturer of Resistance Welding Cap electrodes for the automotive industry. Luvata uses a fully integrated manufacturing process, for its Class I and Class II alloys, from the casting of the wire to the finished product. As an innovator in the welding industry, they are continually developing new processes and products to assure their customers of the highest quality and service. Their brands, Nitrode, Cupal, NitrodeComposite, Z-trode, A-trode, and C-trode, are recognized around the world for their quality.

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PRODUCTS MANUFACTURED:
NGK Metals Corporation is a manufacturer and distributor of high-performance copper alloys for the RWMA community. NGK Metals proudly offers their customers a wide array of products, including tube, rod, plate, strip, and casting alloys. In addition, NGK Metals offers machining services and a broad line of Safety (non-sparking) Tools.

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PRODUCTS MANUFACTURED:
Manufacturer of a complete line of resistance welding equipment and supplies: including servo and air robot welding guns, cylinders, AC and DC transformers, fixture guns, PSW guns, air and water cooled cables, shunts, adapters, electrodes, timer-controllers, tip dresser units, tip changer units, cutter blades and most other resistance welding needs. Service includes design engineering, site support, maintenance recommenda-
tions and other technical support.

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2147 10 Mile Road
Warren, MI 48091
Phone: 586-755-7320

J.R. PIPPIN, General Manager
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PRODUCTS MANUFACTURED:
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.
Components Division

These companies are manufacturers of high quality 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.

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PRODUCTS MANUFACTURED:
Resistance welding controls: Mid Frequency Inverters, Single phase AC/DC. Three phase DC, Cascade Multi SCR/Multi Valve. Constant Current Controls with monitoring. Retrofit controls. Flat packs for customer integration. Automotive controls with fieldbus systems such as DeviceNet, InterBus, Profibus, Ethernet, Networking systems with computer monitoring/programming. Ground fault detection sensitivity 15ma, 30ma, 10hm
BF ENTRON, LLC (cont’d)


CAL MANUFACTURING COMPANY, INC.
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Vicksburg, MI 49097
Phone: 269-649-2942
Fax: 269-649-2946
E-mail: calcables@aol.com
URL: www.calmfginc.com

PRODUCTS MANUFACTURED:
Cal Manufacturing is a quality manufacturer of air-cooled, water-cooled, kickless welding cables, induction furnace cables, and laminated shunts. Cal Manufacturing has been serving the resistance welding industry for five decades. With a reputation built on fast delivery and competitive pricing, we know how to help you keep your customers happy. When your customer’s line is down, Cal Manufacturing can deliver. Brochures available upon request.

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Detroit MI 48232-1187
Phone: 313-961-3731

PRODUCTS MANUFACTURED:
Manufacturer of components for robotic, fixture, and manual resistance welding systems including: a broad range of resistance welding guns; OHMA® air/oil intensifying cylinders; the STAAC® family of low-impact pneumatic cylinders; AMSI™ welding cylinders; the patented CenterLine® SmartElectrode™ nut detection system; CenterLine® Flex-Fast™ fastener welder platform; custom tooling and automation.

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RAYMOND KROLL, Quality Control Manager
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PRODUCTS MANUFACTURED:
Complete line of SCR Contactors for resistance welding in both air and water cooled designs. Contactors are
DARRAH ELECTRIC COMPANY (cont’d)

available in ratings from 5 KVA thru 1500 KVA applications. Solid-state ignitron tube and mechanical contactor replacements are also available.

DIMPLEX THERMAL SOLUTIONS
(Formerly Schreiber Engineering & Koolant Koolers)
2625 Emerald Drive
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Phone: 800-968-5665
Fax: 269-349-8951
E-mail: dklaren@dimplexthermal.com
URL: www.dimplexthermalsolutions.com

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Cerritos, CA 90703
Dimplex Thermal Solutions (cont’d)

Germany
Dimplex Thermal Solutions (Riedel)
Kulmbach, Germany

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

Electron Beam Technologies, Inc.
1275 Harvard Drive
Kankakee, IL 60901
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Fax: 815-935-8605
E-mail: sales@electronbeam.com
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Paul Wlos, President
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Valgene Raloff, Product Manager
E-mail: sales@electronbeam.com

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

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ENTRON CONTROLS, LLC. (cont'd)

PRODUCTS MANUFACTURED:
Microprocessor-based resistance welding controls: MidFrequency DC 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 "FlatPak" form for custom integration into existing enclosures. Retrofit style controls are available for use with existing SCR's for all models. RS232 and RS485 and Ethernet ENLINK 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 RWMA 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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Colonia Bellavista Tacubaya
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MEXICO
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Guadalajara, MEXICO
Silao, MEXICO
Saltillo, MEXICO
Monterrey, MEXICO

ARACELI FLORES, Regional Sales Representative
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ETAL, S.A. DE C.V. (cont’d)

PRODUCTS MANUFACTURED:
ETAL, S.A. de C.V. is a manufacturer of Class I, II, III resistance welding consumables (caps, adapters, electrodes, holders) shunts, cables, seam welding wheels (rings). Manufacturing located in Mexico City with sales and technical support offices serving their customers throughout the Mexican Republic, Central America, and the United States for over 40 years. Offering welding courses, weld maintenance outsourcing, warehouse administration. Fully integrated manufacturing processes (forge, foundry, extrusions, sintering, brazing, machining); Specialty electrodes (molybdenum, tungsten, chrome, copper zirconium alloys). Distributor of industrial oxhydric gas generators and spot welders.

FLEX-CABLE
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E-mail: email@flexcable.com
URL: www.flexcable.com

JAN CHRISTIANSON, Vice President, Tech Development
E-mail: jan.christianson@flexcable.com

HOLLY STEVENS, Sales Representative
E-mail: holly.stevens@flexcable.com

PRODUCTS MANUFACTURED:
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.

INTERTRON INDUSTRIES, INC.
2110 South Wright Street
Santa Ana, CA 92705-5314
Phone: 714-549-8948
Fax: 714-549-3247
E-mail: rickym6@earthlink.net
URL: www.intertron-ind.com

RICKY MARTIN, President
E-mail: rickym6@earthlink.net

PRODUCTS MANUFACTURED:
Single phase welding controllers, multi-gun welding and machine controllers with multi-axis servo drive, three phase frequency converter and three phase DC welder
Serving the Resistance Welding Industry for nearly half a century...

Committed to unsurpassed product and consumer excellence.

800-245-3539
www.flexcable.com
INTERTRON INDUSTRIES, INC. (cont’d)

and welding machine controllers, mid-frequency inverter welding controllers. The weld controllers have built-in options of programmable electronic air pressure regulators, data acquisition, and weld processing monitors.

MATUSCHEK WELDING PRODUCTS, INC.
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TODD FIEBELKORN, Welding Application Engineer
E-mail: todd.fiebelkorn@matuschek.com

PRODUCTS MANUFACTURED:

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RoMAN MANUFACTURING, INC. (cont’d)

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Madison Heights, MI 48071-0943
Phone: 248-585-5540
Fax: 248-585-5577

KURT HOFMAN, President
Phone: 616-299-4405 (cell)
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PRODUCTS MANUFACTURED:
Resistance welding transformers; special water-cooled transformers; frequency converter transformers; ground reactors; single, three phase and MFDC power supplies; manual and motorized rotary tap switches; impedance meter for weld circuit analysis and transformer sizing; transformer disconnects; electrical insulation fabrication; patterns and non-ferrous sand castings; complete repair services for all manufacturers and models.

SCHREIBER ENGINEERING CORPORATION
(See DIMPLEX THERMAL SOLUTIONS)

STILLWATER TECHNOLOGIES, INC.
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Troy, OH 45373
Phone: 937-440-2500
Fax: 937-440-2502
E-mail: info@stlwtr.com
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BILL LUKENS, President/CEO
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LARRY JONES, Sales Manager
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PRODUCTS MANUFACTURED:
Stillwater Technologies, Inc.’s, Resistance Welding Division manufactures Tip Changers, Tip Dressers and allied accessories in multiple configurations to fit a wide variety of applications. Consumables offered include adapters, shanks, caps/tips, tip holders and wheels. We provide weld gun rebuild and replacement. Using Catia, Solid Works and AutoCAD, our engineering staff is able to go from “art to part” machining complex shapes and surfaces.
TECHNO CONTROL CYBERNETICS, INC.
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Terrebonne, Quebec J6X 4J8
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Phone: 450-968-8896
Fax: 450-968-8991
Email: info@techno-control.com
URL: www.techno-control.com

JEAN-PIERRE DERDEYN, President

PRODUCTS MANUFACTURED:
We are the manufacturer of the very popular and dependable Techno-Control single-phase AC resistance welding controllers. Available with water-cooled SCR's applied pressure monitor control, keypad or thumb wheel programming, modular, upgradeable, production-oriented, extremely user friendly. We supply easily retrofitted controls and control systems 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, courses in resistance welding, and carry a full line of replacement parts and consumables, including new and rebuilt welding transformers, shunts, resistance welding-related pneumatics, copper alloys, electrodes, etc.
Our technical department upgrades, refurbishes, adapts and services to original specifications all existing resistance welding-related equipment. A solely resistance welding-oriented company.

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PRODUCTS MANUFACTURED:
TG Systems is a leading engineering and manufacturer of Manual/Robotic transformer integrated weld guns for AC and DC applications. Transgun packages cover inverter, pneumatic/servo-pneumatic and servo driven
TG SYSTEMS, LLC (cont’d)

systems. Fixture guns, projection welding cells, and fully integrated welding modules. Designs are developed around low inertia/high force transguns to maximize payload to throat ratios and limit cycle wear factors. TG Systems has 3 rebuild and support facilities in North America and Europe; which provide the end user with the choice to utilize fully integrated components resulting in a more reliable welding system.

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DAVID HIRSCH, Vice President, Production
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PRODUCTS MANUFACTURED:
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 weld
UNITROL ELECTRONICS, INC. (cont’d)

ing in sizes to match any welding machine. Available options include constant current, electrode force measurement, communication ports, and electronically set air pressure regulators. All controls feature a minimum of components and utilize design that eliminates wiring cables, ribbon cables, and unnecessary hardware. Available in single SCR and up to 15 SCR contactor styles with ability to control up to 16 solenoid valves and monitor up to 5 proximity switches. TEMPERATURE FEEDBACK: Unitrol specializes in total feedback resistance brazing systems that replace torch and oven brazing on many components. WATER CHILLERS: Unitrol manufactures water chillers that are balanced for spot welder applications. Complete package water chillers are available up to 50 tons in all standard voltages.

WATTEREDGE, INC.
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ED LANGHENRY, JR., Sales
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PRODUCTS MANUFACTURED:
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.
Resistance Welding Cables & Secondary Connector for Robotic Welding

Watteredge advanced design in alternate polarity resistance welding cables increases performance and longevity, producing the lowest possible inductive resistance. The unique star separator design maintains strong strand position and excellent water flow. We also include high-temp internal/external restraining collars to minimize stress in the bending area and low inductive reactance to produce overall lower transformer KVA demand.

Custom-Made Laminate Shunts

Watteredge manufactures a broad variety of shunts using our exclusive, patented Pressweld™ technology. These custom-made laminate shunts can provide optimal electrical values, while effectively eliminating the costly problem associated with resistive voltage losses. This unique process gives our shunts resistance values equal to those of flat copper bar, minimizes voltage loss, maintains uniform flow of current and are very cost effective.

Braided Flexible Connectors

Watteredge braided flexible connectors deliver the maximum amount of electrical power at peak efficiency, and at half the resistance levels of present connectors. These connectors are also manufactured to compensate for vibration, expansion/contraction of bus units and to deliver minimum resistance values.

Forked Terminal Connections

For the automotive industry, our forked terminal connections efficiently eliminate busbar arrangements and reduce weight on robot arms. This solution eliminates premature abrasion wear.

Water-Cooled Jumpers

Our water-cooled jumpers are made from swaged cylindrical connectors crimped over copper stranding which minimizes wire breakage due to bending and fatiguing.

Prime Series Transgun Cables

Watteredge Prime Series Transgun Cables are designed specifically to excel in the demanding environment of robotic welding. A quick-change alternative to inflexible and labor intensive hardware setups, which result in less downtime, improved productivity and lower manufacturing costs.

Cellar Services, a division of Watteredge, Inc.

Specialized Industrial Products for welding, material handling, and dispensing operations.
- Robot Dress Out & Cable Clamps/Brackets
- Abrasion Protection and Repair
- Weld Test Tools and Equipment
- Industrial Specialty Items
- Hangers and Bundling Straps

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ASSOCIATE MEMBER DIVISION

SALES & MARKETING ORGANIZATIONS

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Fax: 011-61-7-40-359-737
E-mail: aerosmi@bigpond.net.au

ROLPF STEVEN SMITH, Aircraft Engineer & Welding Technologist

WORKING OFFICE LOCATION:
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Cairns General Aviation Airport
Cairns Queensland 4870
AUSTRALIA

SERVICES PROVIDED:
Aerosmith Welding manufactures and repairs aircraft components with Civil Aviation Authority #A403037 and Civil Aviation Safety Authority #C573723. They are also involved with engineering approvals for safer aviation components.

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www.spotweldingsupport.com

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SERVICES PROVIDED:
Athena Plus, Inc. is a full-service, value-added, resistance welding machine builder. Their special niche is cross-wire welding (cww) machines. They re-build machines, design and make new tooling, complete full
ATHENA PLUS, INC. (cont’d)

turnkey projects, as well as installation and program-
ing of new machines. In conjunction with RWESCO
(Resistance Welding Equipment & Supply, Co.), their
sister company, which sells electrodes, new controls
and does repair work and on-site work, every aspect of
resistance welding can be accomplished. Their mission
is to keep their loyal customers in production with the
highest quality resistance welding possible.

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MATT POST, Component Sales
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SERVICES PROVIDED:
Apex Controls is the Manufacturers Representative for
Weld Controls and DC Inverters, Weld Guns and
Cylinders, AC and DC Transformers, Pedestal Welders,
Nut and Stud Feeders and related resistance welding
components. Assisting OEMs, tool builders and manu-
facturers with sizing and specification of resistance
welding components and controls engineering.
Programming of special machines for manufacturers
and OEMs. Assembly and wiring of special machine
control panels and machine wiring.

AUTOTOOL, INC.
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YUJI KOTAKA, Project Manager
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SERVICES PROVIDED:
Autotool Inc. is a leading supplier providing one source
for robotics, tooling and automation needs. Autotool
specializes in design, fabrication and integration of
AUTOTOOL, INC. (cont’d)

robotic systems for various processes including resistance welding, ARC-welding, material handling, vision and inspection. Autotool offers the advantage of complete system integration with in-house capabilities including mechanical design, simulation, electrical design, fabrication, assembly, CMM inspection and installation.

BRUSH WELLMAN, INC.
17876 St. Clair Avenue
Cleveland, OH 44110

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800-443-7731
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Phone: 800-521-8800
586-772-2700
Fax: 586-772-2472

SERVICES PROVIDED:
Brush Wellman, Inc., headquartered in Cleveland, Ohio, is a wholly owned subsidiary of Brush Engineered Materials, Inc. (NYSE: BW). Brush Wellman is the world’s leading producer of high performance alloys, including RWMA Class III and Class IV copper alloys for welding applications. A comprehensive selection of rod, bar, plate, tube, casting, and master alloys are available.

Around the world, the company’s engineered materials can be found in technically demanding end-use products within the telecommunications and computer, automotive electronics, appliance, industrial components, plastics tooling, oil and gas, aerospace and defense, and off-highway and mining equipment markets.
CIS TECHNICAL SOLUTIONS
2835 Kew Drive, Unit 1
Windsor, Ontario
CANADA N8T 3B7
Phone: 519-948-6840
Fax: 519-974-0509
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SERVICES PROVIDED:
CIS Technical Solutions has been helping businesses successfully implement and optimize new and existing robotics and controls processes for over twenty years. CIS welding professionals are well versed in a variety of welding applications, and are highly adept at bringing process improvement and optimization solutions to all automated resistance, projection, and arc welding applications.

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Fax: 248-233-5777
URL: www.copperandbrass.com

DAVE VASSAR, Product Manager, Copper Alloys
Phone: 419-662-1837
Fax: 419-662-6586
E-mail: dave.vassar@thyssenkrupp.com

SERVICES PROVIDED:
Copper and Brass Sales is a processor and distributor of non-ferrous metals. We stock a complete line of sheet, coil, plate, tube and bar products in aluminum, brass, copper, bronze and stainless steel. In copper, we stock square, rectangular, hexagon plate and rod in RWMA Class II, RWMA Class III, and RWMA Class IV.

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MEXICO – AGUASCALIENTES
ROGELIO GALLEGOS
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Serving all of your North American Resistance Welding Needs!

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Consumables

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Service

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www.dengensha.com
440.439.8081
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DENGENSHA AMERICA CORPORATION (cont’d)

MISSISSIPPI
MICHAEL SMITH, Sales Representative
Phone: 601-835-6179
E-mail: msmith@dengensha.com

SERVICES PROVIDED:
North American sales and service for Dengensha Mfg.
Co., Ltd., of Japan: automatic nut and bolt feeders, sta-
tionary spot welders, Diagnostic/Monitoring equipment,
electrodes, caps, locating pins, weld controls, trans-
formers, weld guns, holders, shunts, Device Net –
Ethernet capabilities, special welders.

FREEPORT-McMoRAN COPPER AND GOLD
Bayway Operations
(Formerly Phelps Dodge Specialty Copper Products)
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PRODUCTS PROVIDED:
Freeport-McMoRan Copper & Gold, Bayway Operations offers a full line of copper
alloys products specifically designed to meet the needs of our customer’s critical
application requirements.
• RWMA Class 1, 2, and 3 materials are available in Rod, Bar, Tube and Coiled
  Stock. For cold heading and machined welding electrodes and caps related
  resistance welding components.
• Class 3 Beryllium Free C190 alloy.
• Alloy selection includes Oxygen Free Copper, ETP copper and a wide variety of
  high-copper alloys.
FREEDPORT-McMoRAN COPPER AND GOLD (cont’d)

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SERVICES PROVIDED:
OUR NAME HAS CHANGED! Formerly known as Phelps Dodge Specialty Copper Products; Freeport-
McMoRan Copper and Gold – Bayway Operations
offers a full line of copper and copper alloy products
specifically designed to meet the needs of our cus-
tomer’s critical application requirements. Our alloy
selection includes Oxygen free coppers, ETP copper
and a wide variety of high-copper alloys. Our RWMA
Class 1, 2, and 3 materials are available in Rod, Bar,
Tube and Coiled Stock; including our Class 3 Beryllium
Free UNS C18000 alloy, for cold heading and machined
welding electrodes and caps and related resistance
welding components.

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SERVICES PROVIDED:
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service company that provides engineers at our cus-
tomer’s facilities as well as offering support and testing
from our Resistance, ARC, and metallurgical laborato-
ries.

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SERVICES PROVIDED:  
Tier I supplier of automotive Metal Stamping, and welded assemblies.

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SANDRA FERNANDEZ, Secretary  
E-mail: sfernandez@huysindustries.com

BRANCHES
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Quetzalcoatl Num 12  
Col. Perisur  
Hermosillo, Sonora  
CP 83294, MEXICO  
Phone: 662-254-2358

JAVIER DURAN  
E-mail: jaduran@posgrado.cifus.uson.mx

SERVICES PROVIDED:  
Exclusive Americas distributor for SORPAS® welding software, “Cost per Weld” cost saving strategies, training courses, and the FIRSTWELD™ program to assist companies in optimizing their welding parameters. The company also provides SPOTRON diagnostic equipment, I.M. cylinders and I.S. tip dressers and changers.

Huys Welding Strategies has grown as a result of our customers’ needs for specialized knowledge in welding new materials, their innovative and effective cost saving ideas, and their quick and accurate response.
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3620 East 14th Street
Brownsville, TX 78521
Phone: 956-982-1350
Fax: 956-982-1397
E-mail: iisco@ies.net

MOISES LARA, Sales Manager
Email: iisco@ies.net

SERVICES PROVIDED:
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.

KVA RESISTANCE WELDING SUPPLY
1371 Brass Mill Road, Suite C
Belcamp, MD 21017
Phone: 410-273-0609
Fax: 410-273-6031
E-mail: info@kvawelding.com
URL: www.kvawelding.com

CHRIS BREIDENBAUGH, President
E-mail: chris@kvawelding.com
ELIZABETH HAMM, Office Manager
E-mail: liz@kvawelding.com

SERVICES PROVIDED:
KVA is a full-service distributor of all things related to resistance welding. Among other things, they stock/sell or service: caps, shanks, electrodes, adapters, cables, shunts, controls, transformers, weld cylinders, electrode dressing tools, and copper bar stock. They also offer a wide array of engineering functions, and can assist in the design of special parts, or their in-house personnel can design entire machines.

LAKE WELDING SUPPLY CO.
363 Ottawa Street
Muskegon, MI 49442
Phone: 231-722-3773
800-873-5253
Fax: 231-725-9113
E-mail: sales@lakewelding.com
URL: www.lakewelding.com

DENNIS KING, Resistance Welding Specialist
E-mail: dking@lakewelding.com
TOM LESNESKI, Sales Manager
E-mail: tlesneski@lakewelding.com
LAKE WELDING SUPPLY CO. (cont’d)

SERVICES PROVIDED:
Lake Welding Supply has been serving the welding industry since 1953. Their unwavering commitment to customer satisfaction and innovative solutions for their customers set them apart. They are a distributor of MIG, TIG, and Resistance Welding equipment and consumables. They also provide industrial, specialty, medical and carbonic gases, safety equipment, abrasives, and power and hand tools.

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Calle 3 #2 Zona Industrial Benito Juarez
Queretaro, Queretaro
MEXICO 76120
Phone: 011-52-442-2-1711-71
Fax: 011-52-442-182-2546
E-mail: mainmetal@prodigy.net.mx
URL: www.macosa.org

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ABEL GARCIA, Imports Manager
E-mail: abel.garcia@macosa.org
LUIS GARCIA VEGA, Sales Manager
E-mail: ila_2@yahoo.com.mx

SERVICES PROVIDED:
Manufacturas En Cobre Aleado S.A. de C.V. manufacture and importe of all kinds of resistance welding consumables and foreign raw materials in special copper alloys.

NATIONAL BRONZE & METALS, INC.
2929 West 12th Street
PO Box 800818
Houston, TX 77008 / 77280 (PO Box zip)
Phone: 713-869-9600
Fax: 713-869-2897
E-mail: sales@nbmmetals.com
URL: www.nbmmetals.com

NORMAN LAZARUS, Sr. Vice President
E-mail: nlazarus@nbmmetals.com
ANDREW MEESE, Field Sales & Technical Manager
E-mail: ameese@nbmmetals.com
KENNETH WLODKOWSKI, Specialty Metals & Technical Sales Manager
E-mail: kwlodkowski@nbmmetals.com
NATIONAL BRONZE & METALS, INC. (cont’d)

SERVICES PROVIDED:
National Bronze & Metals, Inc., was founded in 1983, and has its headquarters in Houston, Texas, and foundry in Lorain, Ohio. We are a leading manufacturer and master distributor of brass, bronze, and copper alloys, including a substantial range of RWMA Class I, II, III, and IV alloys in rod, wire, bar and plate, available from our warehouse for prompt world wide delivery.

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Ningbo Zhejiang 315135
P.R. CHINA
Phone: 86-574-8834-8558
Fax: 86-574-8834-9873
E-mail: lj@pwalloy.com
URL: www.pwalloy.com

JIE LIU, International Sales Manager
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E-mail: cici@pwalloy.com
SUBO SHI, International Sales
E-mail: Maggie@pwalloy.com
MING SHANG, General Manager
E-mail: zm@pwalloy.com

SERVICES PROVIDED:
Ningbo Powerway Group Co., Ltd., established in 1987, is a national key high-tech enterprise who specializes in manufacturing, researching and developing copper alloy in wire and bar. They are manufacturers of C18150, C18200, and C15000.

NONFERROUS PRODUCTS, INC.
401 Arvin Road
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Franklin, IN 46131
Phone: 800-423-5612
Fax: 317-738-2685
E-mail: info@nonferrousproducts.com
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JOHN E. MAIN, Technical Sales
E-mail: jmain@nonferrousproducts.com
STEVE McQUEEN, Distribution Manager
E-mail: smcqueen@nonferrousproducts.com
NONFERROUS PRODUCTS, INC. (cont’d)

RAJEEV JAIN, Sales Manager  
E-mail: rjain@nonferrousproducts.com

SERVICES PROVIDED:  
Nonferrous Products, Inc. is a manufacturer and distributor of copper, copper alloy and aluminum bronze plate, sheet, bar, rod, tube, discs and special shapes. Up to 4,000 lbs. capacity. Serve the RWMA, Plastic Mold, Heat Exchanger, Metal melting and other industrial markets. 1-10 business day delivery of all products. They have been in continuous operation since 1946.

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Fax: 817-640-1192  
E-mail: coliver@qualityhoneycomb.com  
URL: www.honeycombone.com  
CHUCK OLIVER,  
E-mail: coliver@qualityhoneycomb.com

SERVICES PROVIDED:  
Quality Honeycomb, Inc. manufactures Honeycomb Products (Stainless Steel and High Nickel Alloys) by resistance welding. They are manufacturers of metallic Honeycomb. Their FDIL gauges start at .0012” and travel to .020”. Cell sizes start at .032” up to .500”. This slitting capabilities allow them to stock a wide variety of materials. Quality Honeycomb also does vacuum brazing.

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7801 N. 73rd Street  
Milwaukee, WI 53223-4023  
Phone: 414-354-4530  
Fax: 414-354-9027  
E-mail: davej@resmfg.com  
URL: www.resmfg.com

STEVE PANKOWSKI, Manufacturing Manager  
E-mail: stevep@resmfg.com  
DAVE JOHNSON, Special Projects Engineer  
E-mail: davej@resmfg.com
RES MANUFACTURING COMPANY (cont'd)

SERVICES PROVIDED:
Contract metal stamper.

RESISTANCE WELDING MACHINE & ACCESSORY
Northern Location
255 Palladium Drive
St. Joseph, MI 49085
Phone: 269-428-4770
800-915-9353
Fax: 269-428-4796
E-mail: sales@resweld.com
URL: www.resweld.com

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JIM WOOD, Inside Sales
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JERRY KAATZ, Internal Sales
E-mail: jerryk@resweld.com

BRANCHES
Southern Location
1151 Morgan Park Road
Pelham, AL 35124
Phone: 205-620-4850
Fax: 205-620-4851

CARY SESSIONS, Outside Sales
E-mail: carysessions@bellsouth.net

AMBER BYRD, Inside Sales
E-mail: copperabyrd@bellsouth.net

SERVICES PROVIDED:
Resistance Welding Machine & Accessory, with operational and warehouse locations in the North (St. Joseph, Michigan) and South (Pelham, Alabama), is a full-service distributor and manufacturer that has been providing quality spot welding supplies and equipment since 1987. However, we are not just another spot welding supply company like so many others, we are resistance welding specialists. Our sales engineers and customer service representatives are the most knowledgeable in our industry, and can offer assistance in choosing the proper spot welding supplies and machinery for the job at the best value. We 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 our thousands
RESISTANCE WELDING MACHINE & ACCESSORY (cont’d)

of standard products, we 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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PO Box 71128
Madison Heights, MI 48071
Phone: 248-585-5540
Fax: 248-585-5577
E-mail: khofman@romaneng.com
URL: www.romaneng.com

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ROB TEED, Organizational Manager
E-mail: rted@romaneng.com
DON MAATZ, Weld Lab Manager
E-mail: dmaatz@romaneng.com

SERVICES PROVIDED:
RoMan Engineering Services is a full service engineering company specializing in high production welding process. We have over 45 degreed engineers in the field as consultants and 22,000 square foot of laboratory space dedicated to weld development, prototype welding and research.

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36490 Reading Avenue
Willoughby, OH 44094
Phone: 440-942-3520
800-922-7437
Fax: 440-942-5580
E-mail: tungsten@apk.net
URL: www.sherbrookemetals.com

RANDOLPH A. SPOTH, CEO
LAURA KRUS, President

SERVICES PROVIDED:
Sherbrooke Metals Corporation is a primary manufacturer of copper-tungsten and silver-tungsten materials. In addition to making these products, we stock pure Molybdenum and Tungsten in both rod and plate. These materials are cut and ground to customer specifications.
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  - Copper Alloy C 10100 (O.F.H. C.)
  - Copper Tungsten
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DAVID WALTA, Sales
E-mail: dwalta@southerncopper.com
FRED BURTON, Outside Sales
E-mail: fredburton@southerncopper.com

SERVICES PROVIDED:
Southern Copper and Supply is a dedicated full service supplier of resistance welding supplies and nonferrous metals. Our commitment is always to our customers. We stock a large variety of items and ship most items the same day they are ordered.

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Member
SPOTWELDING CONSULTANTS, INC. (cont’d)

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  Email: ron@spotweldingconsultants.com
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  Email: david@spotweldingconsultants.com

SERVICES PROVIDED:
SCI is a one stop for all resistance welding related equipment & products. SCI furnishes new and rebuilt resistance welders, custom resistance welders, maintains a large inventory of controls, transformers and electrodes. Supplies RWMA alloy copper rod and bar, copper tungsten, tungsten and Molybdenum, water chillers, pull testers, current monitor/analyzers, force gauges. SCI provides training either in-house or at the customer’s facility.

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Novi, MI 48377
Phone: 248-675-6000
Fax: 248-675-6200
E-mail: info@towerautomotive.com
URL: www.towerautomotive.com

DANIEL GALIHER, Corporate Welding Engineer
  E-mail: galiher.daniel@towerautomotive.com

SERVICES PROVIDED:
Tower Automotive is a global producer of body structures, lower vehicle structures and suspension components and modules. Our 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 Automotive has made successful body structures, lower vehicle structures, suspension components and modules for nearly every major automotive manufacturer in the world.
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