

Resistance Welding Manufacturing Alliance

*Joining to Promote Resistance
Welding Excellence*

2008 Membership Directory

 [®]
RWMA


RESISTANCE WELDING MANUFACTURING ALLIANCE
A STANDING COMMITTEE OF **American Welding Society**





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RWMA

RESISTANCE WELDING MANUFACTURING ALLIANCE
A STANDING COMMITTEE OF **American Welding Society**



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

Officers

Chair	Michael Simmons TG Systems, LLC
First Vice Chair	Roger Hirsch Unitrol Electronics, Inc.
Second Vice Chair	Wade Burnette NSRW, Inc.

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Alternate	Tom Snow T. J. Snow Co., Inc.

Electrode Division

Representative	Mark Gramelspacher CMW Inc.
Alternate	Greg Chambers Luvata, Ohio, Inc.

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CenterLine Electrode & Allied Products Division

Patricia Adams
ENTRON Controls, LLC

Bill Brafford
Tuffaloy Products, Inc.

Harry Radcliff
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RWMA

Committees and Chairs

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Standard Resistance Welder Co.

Vice Chair – William (Bill) Love
CMW Inc.

Scholarship Subcommittee
RWMA Representative - Kurt Hofman
RoMan Manufacturing, Inc

Welding School Subcommittee
Chair – Bruce Kelly
Kelly Welding Solutions

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ENTRON Controls, LLC

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Michael Simmons
TG Systems, LLC

Executive Finance Committee

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Marketing Committee

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Watteredge, Inc.

Vice Chair – William (Bill) Love
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Chair – John Collins
Spotwelding Consultants, Inc.

Member Recruitment Subcommittee
Chair - Holly Stevens
Flex-Cable

Newsletter Subcommittee
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CMW Inc.

Strategic Planning Committee

Chair - Larry Moss
Automation International, Inc.

Technical Activities Committee

Chair - Ren Scodeller
CenterLine - AutomationComponents Division

Vice Chair – Bob White, Jr.
Janda Company, Inc.

RWMA Past Presidents

Walter A. Anderson	1938-39
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 Tiegman	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

Elihu Thompson Resistance Welding Awards 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 Manufacturing, Inc.
- 1997 John Nichols – RWC, Inc.
- 1998 Edward Green – Taylor-Winfield
- 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 Co.
- 2004 Bob Matteson – Taylor-Winfield
- 2005 Bob Hofman – RoMan Manufacturing
- 2006 Sandy Lee – RWC, Inc.
- 2007 Howard D. Johnston – CMW Inc.

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**

RWMA Literature

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 set up. It is a great tool to introduce your new and experienced personnel to the resistance welding process. Also available on DVD.

Resistance Welding Manual, Revised 4th Edition

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.

Education

The Emmet A. Craig Resistance Welding School

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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Southern Copper & Supply

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Dimplex Thermal Solutions
Intertron Industries, Inc.
Janda Company, Inc.
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

MASSACHUSETTS

Gilbert Industrial, Inc.

MICHIGAN

Apex Controls, Inc.
Brush Wellman, Inc.
Cadi Company, Inc.
CAL Manufacturing Company, Inc.
CenterLine (Windsor) Ltd.
Automation Components Division
Copper and Brass Sales
Dimplex Thermal Solutions
Flex-Cable
Fusion Welding Solutions
Lake Welding Supply Co.

MICHIGAN (cont'd)

Matuschek Welding Products, Inc.
Obara Corp., USA
Resistance Welding Machine & Accessory
RoMan Engineering Services, Inc.
RoMan Manufacturing, Inc.
RWC, Inc.
Tec-Option
TG Systems, LLC
Tipaloy, Inc.
Tower Automotive, LLC
Welform Electrodes, Inc.

MISSISSIPPI

Dengensha America Corp.

NEW JERSEY

FREEMPORT-McMoRAN Copper and Gold
Bayway Operations
LORS Machinery, Inc.

NORTH CAROLINA

Huys Industries Limited

OHIO

Autotool, Inc.
Brush Wellman, Inc.
Darrah Electric Company
Dengensha America Corporation
Luvata Ohio, Inc.
MLS Systems
Sherbrooke Metals Corporation
Stillwater Technologies, Inc.
Taylor-Winfield Corporation, The
Watteredge, Inc.

PENNSYLVANIA

RMSA, Inc.

SOUTH CAROLINA

BF ENTRON, LLC
ENTRON CONTROLS, LLC
Gilbert Industrial, Inc.
Tuffaloy Products, Inc.

TENNESSEE

ACME Electric Welder Company
NGK Metals Corporation
Roueche Company, The
Tennessee Rand, Inc.
T.J. Snow Company, Inc.

TEXAS

Industrial Supplier Larey, Inc.
National Bronze & Metals, Inc.
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

CenterLine (Windsor) Ltd.

Automation Components Division

CenterLine (Windsor) Ltd.

Electrodes & Allied Products Division

Dengensha Corporation

CIS Technical Solutions

Huys Industries Limited

Huys Welding Strategies, Ltd.

Techno Control Cybernetics, Inc.

Tipaloy, Inc.

CHINA

Luvata Ohio, Inc.

Ningbo Powerway Group Co., Ltd.

Shanghai Mountain Welding Industries Co., Ltd.

GERMANY

Dimplex Thermal Solutions (Riedel)

INDIA

Kriton Weld Equipments Pvt., Ltd.

Mechelonic Welders Pvt., Ltd.

ITALY

Tecna S.p.A.

MEXICO

Consultores y Servicios Industriales, S.A. de C.V.

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.

Machinery Division

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

KURT SIMON, President/CEO

E-mail: kurt@seedorffwelders.com

ERNST GASTEIGER, Vice President

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.

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Phone: 217-446-9500

217-446-9504

Fax: 217-446-6855



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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:

Standard resistance spot, seam, butt and projection welders; portable gun welders. Integrated robotic applications. Special automated assembly machines. Special automated transferring devices. Special automatic arc welding equipment. All types of specialized automatic, multi-gun resistance welders. Dies and special tooling. Build to print.

.....

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.

.....

CONAN IND. E COM DE PRODUTOS ELETRO-ELETRONICOS LTDA.

Av. Capuava-260
Santo Andre SP 09111-000
BRAZIL
Phone: 55-11-478-0540
Fax: 55-11-4474-4955
E-mail: conan@conancontroles.com.br
URL: www.conancontroles.com.br

DONIZETE MIRANDA, Director
E-mail: diretoria@conancontroles.com.br
LUCILENE MIRANDA, Secretary
E-mail: clientes@conancontroles.com.br
SAULO DOS MIRANDA, General Manager
E-mail: sac@conancontroles.com.br

PRODUCTS MANUFACTURED:

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. 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

CONAN IND. E COM DE PRODUTOS ELETRO-ELETRONICOS LTDA. (cont'd)

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.

Jardineros #98-A Penuelas

Queretaro, Qro. 76148

MEXICO

Phone: 011-52-442-220-78-73

Fax: 011-52-442-220-79-33

E-mail: ventas@consi-com.mx

URL: www.consi.com.mx

EDMUNDO HURTADO, President

E-mail: e.hurtado@consi.com.mx

EDUARDO HURTADO, General Manager

E-mail: eduardo@consi.com.mx

HERIBERTO HOTEEMA, Sales Manager

E-mail: hhotema@consi.com.mx

JOEL VAQUERA, North Sales Manager

E-mail: joel.vaquera@consi.com.mx

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

307 Walnut Street

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

PO Box 398

Goshen, CT 06756

Phone: 860-491-9042

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.

.....

GILBERT INDUSTRIAL, INC.

33 Lomar Park Drive

Pepperell, MA 01463

Phone: 800-721-7068

Fax: 978-433-9508

E-mail: lorraine@gilbertindustrial.com

URL: www.gilbertindustrial.com

WILLIAM A. DeGROOTE, President

E-mail: bill@gilbertindustrial.com

LORRAINE MURPHY, Manager

E-mail: lorraine@gilbertindustrial.com

JOHN DeGROOTE, Sr. Technician

E-mail: johnd@gilbertindustrial.com

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
Corona, CA 92882
Phone: 951-734-1935
Fax: 951-734-0649
E-mail: sales@jandawelders.com
URL: www.jandawelders.com

BOB WHITE, SR., President

E-mail: bobsr@jandawelders.com

BOB WHITE, JR., General Manager

E-mail: bobjr@jandawelders.com

SHERYL DREILING, Vice President

E-mail: sheredreiling@jandawelders.com

RHONDA BURTON, Inside Sales

E-mail: rhonda@jandawelders.com

JACK FORNELLI, Sales Manager

E-mail: sales@jandawelders.com

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.

Plot No. 406, G.I.D.C. Estate Makarpura

Vadodara Gujrat

INDIA 390010

Phone: 91-265-2645070

Fax: 91-265-2638761

E-mail: sales@kritonwelders.com

URL: www.kritonwelders.com

VISHAL PUROHIT, Director

E-mail: info@kritonwelders.com

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

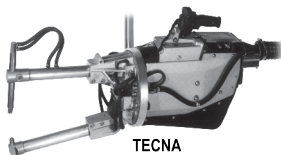
RESISTANCE WELDING EQUIPMENT

Standard & Special Resistance Welders

RWMA Alloys • Electrodes • Holders • Accessories

STANDARD WELDERS

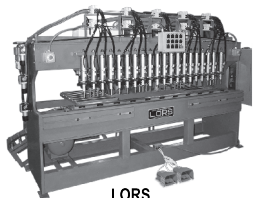
- Vertical Press-type Spotwelders, 10 to 200 KVA
- Rocker Arm-type Spotwelders, 10 to 150 KVA
- Projection Welders, 30 to 200 KVA
- Butt Welders, 10 to 100 KVA
- Bench-type Welders, 5 to 70 KVA
- 3-Phase D.C. & Mid-Frequency Welders
- Self-contained Suspended Spotwelding Guns, 6 to 75 KVA



TECNA
Model 3327

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



LORS
Model 806

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.

1090 Lousons Road

Union, NJ 07083

Phone: 908-964-9100

Fax: 908-964-4492

E-mail: sales@lors.com

URL: www.lors.com

EDWARD J. ONNY, Chairman of the Board

J. GERARD DONESKI, President & Managing Director

Phone: 908-964-9100, Ext. 15

E-mail: jgd@lors.com

EDMUNDO NARVAEZ, Vice President

Phone: 908-964-9100, Ext. 16

E-mail: Edmundo@lors.com

MARILYN CASCARELLI, Financial Manager

Phone: 908-964-9100, Ext. 11

E-mail: marilyn@lors.com

DOUGLAS MACKENZIE, Design & Manufacturing
Manager

Phone: 908-964-9100, Ext. 12

E-mail: doug@lors.com

JAMES FERRARO, Service Supervisor

Phone: 908-964-9100, Ext. 26

E-mail: jim@lors.com

DENNIS MAURO, Electrical Technician

Phone: 908-964-9100m Ext. 25

E-mail: dennis@lors.com

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
Bommasandra
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.

.....

MIYACHI UNITEK CORPORATION

1820 South Myrtle Avenue
PO Box 5033
Monrovia, CA 91017-7133
Phone: 626-303-5676
Fax: 626-358-8048
E-mail: info@miyachiunitek.com
URL: www.miyachiunitek.com

JACK D. LANTZ, President/CEO

Phone: 626-930-8551

E-mail: jack.lantz@miyachiunitek.com

DAVID CIELINSKI, Vice President, Operations

Phone: 626-930-8573

E-mail: dave.cielinski@miyachiunitek.com

JIM MALLOY, Vice President, Sales

Phone: 626-930-8505

E-mail: jim.malloy@miyachiunitek.com

KEVIN GUNNING, Director of Engineering

Phone: 626-930-8428

E-mail: kevin.gunning@miyachiunitek.com

DAVID HERRIN, Product Engineer

Phone: 626-930-8441

E-mail: dave.herrin@miyachiunitek.com

GEOFF SHANNON, Product Manager

Phone: 626-930-8448

E-mail: geoff.shannon@miyachiunitek.com

MARTY MEMBORNE, Product Manager

E-mail: marty.memborne@miyachiunitek.com

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

1101 Commerce Parkway
Findlay, OH 45840-1997
Phone: 419-424-0062
Fax: 419-424-3700
E-mail: mls@mlssystem.com
URL: www.mlssystem.com

WILLIAM J. HUNTER, President

E-mail: mls@mlssystem.com

AARON GOODWIN, Sales Department Leader

Phone: 419-424-0062, Ext. 223

E-mail: mls@mlssystem.com

STEVE PARKE, Engineering Department Leader

Phone: 419-424-0062, Ext. 215

E-mail: mls@mlssystem.com

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

701 Thames Court

PO Box 1147

Pelham, AL 35124

Phone: 205-663-1500

800-933-6779

Fax: 205-663-3221

E-mail: email@nsrw.com

URL: www.nsrw.com

JOANNE S. DINSMORE, President

E-mail: jdinsmore@nsrw.com

WADE BURNETTE, Vice President, Sales

E-mail: wburnette@nsrw.com

KEVIN FELDERHOFF, Vice President, Operations

E-mail: kfelderhoff@nsrw.com

TOM KRISTIENSEN, 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

Lansdale, PA 19446

RMSA, INC. (cont'd)

Phone: 215-661-1265
Fax: 215-661-2888
E-mail: Rmsainc5@aol.com
URL: www.rmsa-inc.com

BOB MANZONNE, President

E-mail: Rmsainc5@aol.com

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 wholesale 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 Multiple-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.

.....

RWC, INC.

2105 South Euclid Avenue
PO Box 920
Bay City, MI 48707-0920

RWC, INC. (cont'd)

Phone: 989-684-4030
Fax: 989-667-3426
E-mail: rwcsales@rwcinc.com
URL: www.rwcinc.com

WILLIAM G. PERLBERG, President
Phone: 989-671-6951
E-mail: wperlberg@rwcinc.com

RONALD G. LAIN, Vice President
Phone: 989-671-6941
E-mail: rlain@rwcinc.com

BRIAN P. TOBIN, Vice President
Phone: 989-671-6964
E-mail: btobin@rwcinc.com

PRODUCTS MANUFACTURED:

High production welding and multi-purpose machines. Automated metal fabricating lines. Special design spot, projection, seam and flash butt welders. Automatic arc welding machines and fixtures. Special automation and handling equipment. Metal forming/joining equipment. Three phase and DC welding machines. Automatic assembly machines.

.....

SCIAKY, INC.

4915 W. 67th Street
Chicago, IL 60638
Phone: 708-594-3800
Fax: 708-594-9213
E-mail: response@sciaky.com
URL: www.sciaky.com

DEAN HOFFMANN, General Manager
E-mail: dhoffmann.sciaky@psi-corp.com

KENN LACHENBERG, Manager, Applications
E-mail: klachenberg.sciaky@psi-corp.com

BOB KRYST, Spare Parts
E-mail: bkryst.sciaky@psi-corp.com

LANG PETERSON, Finance Manager
E-mail: lpeterson.sciaky@psi-corp.com
Phone: 708-496-6185

MIKE CUBERT, Project Manager
E-mail: mcubert.sciaky@psi-corp.com
Phone: 708-496-7344

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)

.....

SHANGHAI MOUNTAIN WELDING INDUSTRIES CO., LTD.

No. 99, Qiancao Road
Xuhang, Jiading District
Shanghai 201809
Peoples Republic of China
Phone: 86-21-599-46359
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@mtweld.com

PRODUCTS MANUFACTURED:

Shanghai Mountain Welding Industries Co., Ltd., founded in 1992, with headquarter 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.

7833 Connors Road
PO Box 268
Winston, GA 30187-1463
Phone: 770-949-2479
800-365-9943
Fax: 770-489-1826
E-mail: jim@srwelder.com
URL: www.srwelder.com

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)

welders, bench welders. Portable gun welders. Special multi-spot, projection and seam welders, special fixtures and transfers. Automated arc welding fixtures. Assembly type welding machines. Three phase DC & mid frequency. Wire forming equipment. Full service OEM manufacturer. Schools/Training. Inventory stocking distributor of consumable products. Dial Index welders.

.....

TECNA S.p.A.

Via Grieco, 25/27

Castel San Pietro 40024

ITALY

Phone: 011-39-051-695-4411

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 resist-

ance welding, 2-5 axes. Automatic air operated sus-

pended guns with built-in transformer, 16-75 KVA; medi-

um 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 cur-

rent 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 fre-

quency 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

BRYAN DOMSCHOT, President
E-mail: bryan@tec-option.com
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.

.....

TENNESSEE RAND, INC.

702 Moccasin Bend Road
Chattanooga, TN 37405
Phone: 423-664-7263
Fax: 423-664-7264
E-mail: sales@tennrand.com
URL: www.tennrand.com

DON PETERS, Executive Vice President & General Manager
E-mail: dpeters@tennrand.com
ANDREW NEELY, Vice President of Advanced Systems
E-mail: aneely@tennrand.com
JOHN MEEK, Engineering Manager
E-mail: jmeek@tennrand.com
JOHN SCHAEFFER, Account Manager
E-mail: jschaeffer@tennrand.com
PAT McDANIEL, Engineering Team Leader
E-mail: pmcdaniel@tennrand.com



T.J. SNOW



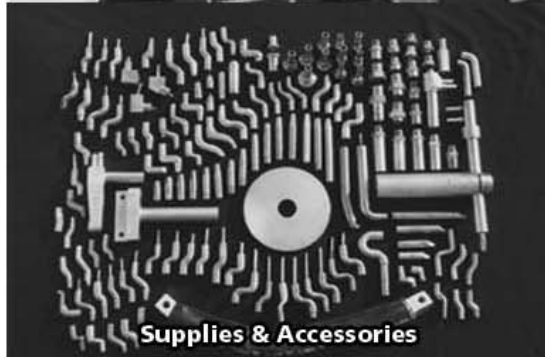
Standard Resistance Welders
New & Remanufactured



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 robotic 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.

.....

T.J. SNOW COMPANY, INC.

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

T. JAMES SNOW, SR., Founder, Chairman Emeritus
THOMAS J. SNOW, JR., Chairman/CEO

Phone: 423-308-3165

E-mail: tomsnow@tjsnow.com

DAVID HETZLER, President/COO

Phone: 423-308-3179

E-mail: davidhetzler@tjsnow.com

MARK D. PEPPING, Vice President, Sales and
Marketing

Phone: 423-308-3215

E-mail: markpepping@tjsnow.com

JAMES DILLARD, Vice President, Engineering and
Manufacturing

Phone: 423-308-3183

E-mail: jamesdillard@tjsnow.com

GREG EDMONDS, Manager, Assembly and Test

Phone: 423-308-3172

E-mail: gregedmonds@tjsnow.com

JOSH GARMON, Service Department Scheduler

Phone: 423-308-3248

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

T.J. SNOW COMPANY, INC. (cont'd)

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.

.....

THE TAYLOR-WINFIELD CORPORATION

Thomas Road

PO Box 500

Brookfield, OH 44403-0500

Phone: 330-448-4464

Fax: 330-448-3538

E-mail: sales@taylor-winfield.com

URL: www.taylor-winfield.com

J. A. ANDERSON (JOHN), Chairman

Phone: 330-448-3500

E-mail: jaa@taylor-winfield.com

DAN GAGLIANO, Vice President/Director of Sales

Phone: 330-448-3559

E-mail: dgagliano@taylor-winfield.com

B. W. RHEIN, Director, Marketing

Phone: 330-448-3523

E-mail: brhein@taylor-winfield.com

R. P. MATTESON (BOB), Director, Technology

Phone: 330-448-3540

E-mail: rmatteson@taylor-winfield.com

PRODUCTS MANUFACTURED:

Taylor-Winfield solves material joining problems to improve part quality and manufacturing production capabilities. Resistance Welding, Induction Heating, MIG, TIG, Plasma and Laser Welding Systems. Automated Assembly and Robotic Systems from concept to production. Full service OEM manufacturer and distributor of Consumable Welding Products.

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.

.....

CADI COMPANY, INC.

60 Rado Drive

PO Box 1127

Naugatuck, CT 06770-1127

Phone: 203-729-1111

800-243-3650

Fax: 203-729-1919

E-mail: sales@cadicompany.com

URL: www.cadicompany.com

ROCCO A. CAPOZZI, CEO

Phone: 800-243-3650

E-mail: racapozzi@cadicompany.com

ROCCO M. CAPOZZI, President

Phone: 800-243-3650

E-mail: rcapozzi@cadicompany.com

DANA M. CAPOZZI, Vice President, Finance

Phone: 800-243-3650

E-mail: dana@cadicompany.com

THOMAS J. CHANDLER, Vice President, Materials & Alloy Management

Phone: 800-243-3650

E-mail: tchandler@cadicompany.com

WAYNE R. JAKUSZ, Vice President, Sales

Phone: 800-243-3650

E-mail: wjakusz@cadicompany.com

XEUJI (WALKER) WANG, Technical Liaison Chinese Operations

Phone: 800-243-3650

E-mail: wang@cadicompany.com

BRANCH OFFICES:

PO Box 81053

Rochester, MI 48308-1053

Phone: 248-375-2224

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

IN STOCK

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)

tomers' 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.



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.....

CENTERLINE (WINDSOR) LTD. ELECTRODES & ALLIED PRODUCTS DIVISION

595 Morton Drive
Windsor Ontario N9J 3T8
CANADA
Phone: 519-734-6886
800-249-6886
Fax: 519-734-2005
E-mail: info@cntrline.com
URL: www.cntrline.com

DAVID M. BENETEAU, Vice President
E-mail: dmb@cntrline.com
DAN E. USZYNSKI, General Manager
E-mail: danuszynski@cntrline.com
MATT SHARRON, Plant Manager
E-mail: msharron@cntrline.com

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PO Box 321187
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313-961-4080

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CMW INC.

70 South Gray Street
Indianapolis, IN 46201
Phone: 317-634-8884
Fax: 317-715-2120
E-mail: cmw@cmwinc.com
URL: www.cmwinc.com

MARK GRAMELSPACHER, President/CEO

E-mail: mgramel@cmwinc.com

WILLIAM (BILL) LOVE, Welding Sales Manager

E-mail: wlove@cmwinc.com

JEFF SCHEMEL, Major Account Manager

E-mail: jschemel@cmwinc.com

RON McCLARNON, Director, Special Projects

E-mail: rmcclarnon@cmwinc.com

SHARONDA GRIFFIN, Human Resources Manager

E-mail: sgriffin@cmwinc.com

KARON HARRIS, Customer Service Representative

E-mail: kharris@cmwinc.com

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)

PO Box 841
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.

.....

HUYS INDUSTRIES LIMITED

175 Toryork Drive, Unit #35
Weston, Ontario, M9L 1X9
CANADA
Phone: 416-747-1611
Fax: 416-747-7171
E-mail: sales@huysindustries.com
URL: www.huysindustries.com

NIGEL SCOTCHMER, President
E-mail: nscotchmer@huysindustries.com

AL KENNEDY, Sales
E-mail: akennedy@huysindustries.com

GORD HUYS, Manufacturing
E-mail: ghuys@huysindustries.com

SONJA MICIC, Office Manager
E-mail: smicic@huysindustries.com

BRANCHES:

Huys Windsor
444 Riverview Drive, RR #5
Unit 11,
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CP 83294
MEXICO
Phone: 662-254-2358

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E-mail: jduran@huysindustries.com

Huys North Carolina
131 Franklin Plaza Drive, Unit 353
Franklin, NC 28734-3249
Phone: 828-349-5103
Fax: 828-349-5104

JIM PRICHARD

E-mail: jpritchard@huysindustries.com

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.

.....

LUVATA OHIO, INC.

1376 Pittsburgh Drive
Delaware, OH 43105
Phone: 740-363-1981
Fax: 740-368-4348
URL: www.luvata.com

DIRK GREYWITT, Vice-President and General Mngr.

E-mail: dirk.greywitt@luvata.com

PAUL RUESS, Sales Director

E-mail: paul.ruess@luvata.com

BRIAN SWANK, Business Development/Technical Mngr.

E-mail: brian.swank@luvata.com

JERRY VANMETER, Chief Engineer

E-mail: jerry.van.meter@luvata.com

GREG CHAMBERS, Accounts Manager

E-mail: greg.chambers@luvata.com

LUVATA OHIO, INC. (cont'd)

MARK STONECIPHER, Domestic/International
Accounts Manager

E-mail: mark.stonecipher@luvata.com

JENNY MILLER, Customer Service Supervisor

E-mail: jenny.miller@luvata.com

BRANCHES

Luvata Welyn Garden, Ltd.
Centrapark Bessemer Road
Welwyn Garden City
Hertfordshire AL71HT
United Kingdom

Phone: 011-44-01707-379789

Fax: 011-44-01707-334300

AMANDA DAWSON, General Manager

E-mail: amanda.dawson@luvata.com

Luvata Suzhou Ltd.
No. 126, Shuang Ma Street
Weiting Town, Suzhou
Suzhou Industrial Park
Jiangsu Province,
215121 CHINA

Phone: 011-86512-62851018

Fax: 011-86512-62851020

LEON TANG, General Manager

E-mail: leon.tang@luvata

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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NGK METALS CORPORATION

917 U.S. Highway 11
Sweetwater, TN 37874

Phone: 586-883-1126
800-523-8268

Fax: 877-645-2328

URL: www.ngkmetals.com

DAVID ST. AMOUR, Great Lakes Regional Sales
Manager

E-mail: dstamour@ngkmetals.com

NGK METALS CORPORATION (cont'd)

RIC KERR, Inside Sales Manager

E-mail: rkerr@ngkmetals.com

JANIS BLOOME, Inside Sales

E-mail: jbloome@ngkmetals.com

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.

.....

OBARA CORP., USA

11478 Timken Street

Warren, MI 48089-3862

Phone: 586-755-1250

Fax: 586-755-6790

E-mail: Hercules.sales@obarausa.com

URL: www.obarausa.com

SOTA IWASAKI, President

E-mail: sota.iwasaki@obarausa.com

DAN WELLMAN, General Manager

E-mail: dan.wellman@obarausa.com

JOE SANDA, Controller

E-mail: joe.sanda@obarausa.com

JAMES JONES, Sr. Sales Coordinator, International Sales

E-mail: james.jones@obarausa.com

CHAD NESTELL, Sales Coordinator

E-mail: chad.nestell@obarausa.com

MICHAEL DUGGAN, Purchasing Agent

E-mail: mike.duggan@obarausa.com

BRANCHES

Obara Corp.

1346 Jamike Lane

Erlanger, KY 41018

Phone: 859-283-5490

Fax: 859-283-5498

ALLEN GIBBONEY, Plant Manager

E-mail: allen.gibboney@obarausa.com

DAVID ACKLEY, Sales Coordinator

E-mail: david.ackley@obarausa.com

DAVID BELLISH, Design Coordinator

E-mail: david.bellish@obarausa.com

JEFF DINSER, Quality/Service Coordinator

E-mail: jeff.dinser@obarausa.com

OBARA CORP., USA (cont'd)

BRANCHES

Obara Mexico, S. de R.L. de C.V.
Roberto Diaz Rodriguez #212
Ciudad Industrial C.P. 20290
Aguascalientes, Ags.
MEXICO
Phone: 011-52-449-971-1525
Fax: 011-52-449-971-1526

JUAN PABLO AGUILAR, Sales Coordinator
E-mail: juanpablo@obara.ags.com.mx
MAYTE HERRERA, General Manager
E-mail: mayte.herrera@obara.ags.com.mx
SILVIA MACIAS, Accounting
E-mail: Silvia@obara.ags.com.mx

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 recommendations and other technical support.

.....

TIPALLOY, INC.

1435 East Milwaukee
Detroit, MI 48211
Phone: 313-875-5145
Fax: 313-875-6027
E-mail: tipaloy@tipaloy.com
URL: www.tipaloy.com

HARRY S. RADCLIFF, JR., President & Treasurer
Phone: 313-875-5145, Ext. 109
E-mail: hank@tipaloy.com
MITCHELL C. RADCLIFF, Vice President
Phone: 313-875-5145, Ext. 106
E-mail: mitch@tipaloy.com
ELISABETH C. RADCLIFF, Comptroller & Secretary
Phone: 313-875-5145, Ext. 105
E-mail: tipaloy@tipaloy.com
MILES C. RADCLIFF, Sales Manager
Phone: 313-875-5145, Ext. 110
E-mail: miles@tipaloy.com
RALPH KALAIR, Production Manager
Phone: 313-875-5145, Ext. 103
E-mail: tipaloy@tipaloy.com

TIPALOY, INC. (cont'd)

BRANCHES

Tipaloy, Ltd.
430 Pelissier Avenue, Suite 326
Windsor, Ontario N9A 4K9
CANADA
Phone: 888-847-2569
Fax: 888-551-2055

PRODUCTS MANUFACTURED:

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TUFFALOY PRODUCTS, INC.

1400 S. Batesville Road
Greer, SC 29650
Phone: 864-879-0763
800-521-3722
Fax: 864-877-2212
E-mail: tuffaloy@tuffaloy.com
URL: www.tuffaloy.com

MICHAEL SIMMONS, President
Phone: 864-517-1170
E-mail: simmons@tuffaloy.com

JEFF PESCHEL, CFO
Phone: 864-517-1150
E-mail: conpesch@tuffaloy.com

PRIYESH DODHIA, Engineering Manager
Phone: 864-517-1130
E-mail: dodhiapk@tuffaloy.com

WILLIAM H. BRAFFORD, Sales Manager
Phone: 864-517-1165
E-mail: brafford@tuffaloy.com

TUFFALOY PRODUCTS, INC. (cont'd)

DENNIS BAKER, Manufacturing Manager

Phone: 864-517-1143

E-mail: dbaker@tuffaloy.com

PRODUCTS MANUFACTURED:

All Standard Spot welding electrodes including caps, standard electrodes – straight and cold formed: Holders including straight, offset, proprietary holders “Equa Tip and Equa Press” dual tip holders: Projection Welding dies and fixtures (design and build): complete range of RWMA alloys in the form of wrought bar, casting, forgings, copper tungsten alloys: seam welding wheels new or reworked: complete line of force gauges: Arctic stud and nut welding electrodes with 10W facing: backup electrodes: weld gun shanks and adapters: “S” series self dressing caps.

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Phone: 586-755-1184

Fax: 586-755-5639

E-mail: jbeach@milcomfg.com

URL: www.welform.com

CHUCK BEACH, President

E-mail: cbeach@milcomfg.com

ED SLADE, Vice President

E-mail: eslade@milcomfg.com

JEFF BEACH, General Manager

E-mail: jbeach@milcomfg.com

DON ZYNDA, Sales Manager

E-mail: dzynda@milcomfg.com

BRANCHES

MILCO MFG.

2147 10 Mile Road

Warren, MI 48091

Phone: 586-755-7320

J.R. PIPPIN, General Manager

E-Mail: jrpippin@milcomfg.com

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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BF ENTRON, LLC

PMB 128
419 The Parkway
Greer SC 29650
Phone: 864-517-1134
Fax: 864-517-1137
URL: www.bfentron.com

BILL MORAN, Product Manager

Phone: 864-517-1133
Fax: 267-295-2008
E-mail: bill.moran@bfentron.com

MIKE ZINTAK, Product Manager

Phone: 864-517-1129
Fax: 815-623-8572
E-mail: mike.zintak@bfentron.com

MANUFACTURING FACILITY

BF ENTRON, LTD.
Castle Mill Works
Birmingham New Road
Dudley West Mid DY1 4DA
ENGLAND UK
Phone: 011-44-1384-455401
Fax: 011-44-1384-455551

JOHN STANWAY, Managing Director

Phone: 011-44-1384-245678
E-mail: john.stanway@bfentron.co.uk

KEVIN CAMBRIDGE, Technical Manager

Phone: 011-44-1384-245667
E-mail: kevin.cambridge@bfentron.co.uk

SEAN HEFFERNAN, Project Manager

Phone: 011-44-1384-245660
E-mail: sean.heffernan@bfentron.co.uk

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

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and 24v earth loop measurement. Control for spot, seam, projection, robot, manual, integrated, suspended, portable, multi-welder, transguns. Self monitoring systems with Ethernet central supervision.

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CAL MANUFACTURING COMPANY, INC.

5500 East "V" Avenue
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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.

.....

CENTERLINE (WINDSOR) LTD. AUTOMATION COMPONENTS DIVISION

655 Morton Drive
Windsor, Ontario N9J 3T9
CANADA
Phone: 519-734-8330
800-268-8330
Fax: 519-734-2006
E-mail: info@cntrline.com
URL: www.cntrline.com

MICHAEL J. BENETEAU, Chief Executive Officer
E-mail: mjb@cntrline.com

BARRY MITCHELL, General Manager
E-mail: barry.mitchell@cntrline.com

PHIL BRIAND, Plant Manager
E-mail: phil.briand@cntrline.com

REN SCODELLER, Account Manager
E-mail: rscodeller@cntrline.com

TONY D'ANDREA, Service Manager
E-mail: tdandrea@cntrline.com

CENTERLINE (WINDSOR) LTD.
AUTOMATION COMPONENTS DIVISION
(cont'd)

BRANCHES

PO Box 321187
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.

.....

DARRAH ELECTRIC COMPANY

5914 Merrill Avenue
Cleveland, OH 44102-5699
Phone: 216-631-0912
800-621-0014
Fax: 216-631-0440
E-mail: decdarrah@earthlink.net
URL: www.darrahelectric.com

DAVID J. DARRAH, President
Phone: 216-631-9941
E-mail: david_darrah@darrahelectric.com

JOANN LIST, Inside Sales Manager
Phone: 216-631-9944
E-Mail: joann_list@darrahelectric.com

ANDY MEIKLE, Sales Engineer
Phone: 216-631-9945
E-mail: andy_meikle@darrahelectric.com

DIANA MEIKLE, Outside Sales
Phone: 216-631-9942
E-mail: diana_meikle@darrahelectric.com

MIKE DARRAH, Materials Manager
Phone: 216-631-0304
E-mail: mike_darrah@darrahelectric.com

VALDAS GELAZIS, Engineering Manager
Phone: 216-631-9940
Email: val_gelazis@darrahelectric.com

RAYMOND KROLL, Quality Control Manager
Phone: 216-631-9936
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Fax: 269-349-8951

E-mail: dklaren@dimplexthermal.com

URL: www.dimplexthermalsolutions.com

DENISE KLAREN, National Sales Manager

Email: dklaren@dimplexthermal.com

NATE NORMAN, Regional Sales Manager

E-mail: nnorman@dimplexthermal.com

DANNY THOMASON, Inside Sales Manager

Email: dthomason@dimplexthermal.com

BRANCHES

CALIFORNIA

Dimplex Thermal Solutions

12111 East Park Street

Cerritos, CA 90703

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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

Phone: 815-935-2211

Fax: 815-935-8605

E-mail: sales@electronbeam.com

URL: www.electronbeam.com

PAUL WLOS, President

E-mail: sales@electronbeam.com

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.

.....

ENTRON CONTROLS, LLC.

601 High Tech Court

Greer, SC 29650

Phone: 864-416-0190

Fax: 864-416-0195

E-mail: info@entroncontrols.com

URL: www.entroncontrols.com

PATRICIA S. ADAMS, President

E-mail: patricia.adams@entroncontrols.com

DONALD C. SORENSON, Director of Engineering

E-mail: don.sorenson@entroncontrols.com

ROBB BOHNERT, Sales

Email: bohnert@entroncontrols.com

CRAIG KELLEY, Sales

Email: ckelley@entroncontrols.com

PETE STEBBINS, Sales

Email: stebbins@entroncontrols.com

HENRY WYSMAN, Sales

Email: wysman@entroncontrols.com

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 "Flat Pak" 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.

.....

ETAL, S.A. DE C.V.

Felipe Angeles #52,
Colonia Bellavista Tacubaya
MEXICO D.F. 01140
MEXICO

Phone: 011-52-55-5278-3900

Fax: 011-52-55-5278-3901

E-mail: ventas@etal.com.mx

URL: www.etal.com.mx

DAVID GANSER, General Manager

E-mail: dganser@etal.com.mx

CESAR GARCIA, Sales Manager

E-mail: cgarcia@etal.com.mx

RICARDO LOPEZ, Chief Engineer

E-mail: rlopez@etal.com.mx

BRANCHES:

San Luis Potosi, MEXICO

Puebla, MEXICO

Mexicali, MEXICO

Queretaro, MEXICO

Guadalajara, MEXICO

Silao, MEXICO

Saltillo, MEXICO

Monterrey, MEXICO

ARACELI FLORES, Regional Sales Representative

E-mail: aflores@etal.com.mx

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 oxyhydric gas generators and spot welders.

.....

FLEX-CABLE

5822 N. Henkel Road
Howard City, MI 49329
Phone: 231-937-8000
Fax: 231-937-8091
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
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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.

42378 Yearego Drive
Sterling Heights, MI 48314
Phone: 586-991-2434
Fax: 586-991-2438
E-mail: info@matuschek.com
URL: www.matuschek.com

ROBERT HARMOS, Sr. Welding Engineer
E-mail: Robert.harmos@matuschek.com
TODD FIEBELKORN, Welding Application Engineer
E-mail: todd.fiebelkorn@matuschek.com

PRODUCTS MANUFACTURED:

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

.....

RoMAN MANUFACTURING, INC.

861 47th Street SW
Grand Rapids, MI 49509-5103
Phone: 616-530-8641
Fax: 616-530-8953
E-mail: roman@romanmfg.com
URL: www.romanmfg.com

ROBERT W. ROTH, President/CEO
E-mail: rroth@romanmfg.com
ROBERT S. HOFMAN, Vice President
E-mail: rhofman@romanmfg.com
DONALD DECORTE, Director Sales & Marketing
E-mail: ddecorte@romanmfg.com
MARK B. SIEHLING, VP, Engineering
E-mail: msiehling@romanmfg.com
GREG GARTHE, Operations Manager
E-mail: ggarthe@romanmfg.com
RON ZAPOLNIK, Purchasing Agent
E-mail: rzapolnik@romanmfg.com

RoMAN MANUFACTURING, INC. (cont'd)

BRANCHES

RoMan Engineering Services
31683 Dequindre Street
PO Box 71128
Madison Heights, MI 48071-0943
Phone: 248-585-5540
Fax: 248-585-5577

KURT HOFMAN, President

Phone: 616-299-4405 (cell)

E-mail: khofman@romanmfg.com

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.

1040 Dorset Road South

Troy, OH 45373

Phone: 937-440-2500

Fax: 937-440-2502

E-mail: info@stlwtr.com

URL: www.stlwtr.com

BILL LUKENS, President/CEO

E-mail: bill.lukens@stlwtr.com

LARRY JONES, Sales Manager

E-mail: larry.jones@stlwtr.com

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.

3470 Enterprise Boulv.
Terrebonne, Quebec J6X 4J8
CANADA
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.

.....

TG SYSTEMS, LLC

851 47th Street SW
Suite D
Grand Rapids, MI 49509
Phone: 616-257-8700
Fax: 616-257-8734
E-mail: sales@tg-systems.com
URL: www.tg-systems.com

MICHAEL S. SIMMONS, Managing Partner

E-mail: mikes@tg-systems.com

TOM FICK, JR., Engineering Manager

E-mail: engineering@tg-systems.com

ROGER PITCHER, Manufacturing Manager

E-mail: RogerPitcher@tg-systems.com

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.

	UNITROL ELECTRONICS, INC. 702 Landwehr Rd. Northbrook, Illinois 60062 847-480-0115 800-621-4244 FAX 847-480-0932 Cellular 847-971-1186 EMAIL ron@unitrol-electronics.com
Ronald Leibovitz <i>Vice President</i>	
<ul style="list-style-type: none">• Resistance Welding Controls• Temperature Feedback Resistance Brazing• Water Chillers And Coolers• Resistance Welding Technology	

.....

UNITROL ELECTRONICS, INC.

702 Landwehr Road
Northbrook, IL 60062-2310
Phone: 847-480-0115
800-621-4244
Fax: 847-480-0932
E-mail: info@unitrol-electronics.com
URL: www.unitrol-electronics.com

ROGER B. HIRSCH, President

E-mail: roger@unitrol-electronics.com

CAROL V. HIRSCH, Executive Vice President

E-mail: carol@unitrol-electronics.com

RONALD LEIBOVITZ, Vice President, Manufacturing

E-mail: ron@unitrol-electronics.com

LEONARD ARMAN, Director of Research &
Development

E-mail: leonarda@unitrol-electronics.com

DAVID HIRSCH, Vice President, Production

E-mail: david@unitrol-electronics.com

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.

567 Miller Road
Avon Lake, OH 44012
Phone: 440-933-6110
Fax: 440-933-8248
Email: sales@watteredge.com
URL: www.watteredge.com

JOSEPH LANGHENRY, President

Phone: 440-930-6918
E-mail: joe.langhenry@watteredge.com

BEN GONTARZ, Chief Engineer

Phone: 440-930-6911
E-mail: ben.gontarz@watteredge.com

JOHN JEFFREYS, Purchasing

Phone: 440-930-6914
E-mail: john.jeffreys@watteredge.com

ED LANGHENRY, JR., Sales

Phone: 440-930-6917
E-mail: ed.langhenry@watteredge.com

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.



WATTEREDGE

YOUR POWER PROFESSIONALS

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 hi-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.



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Specialized Industrial Products for welding, material handling, and dispensing operations.

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Phone: (440) 933-6110 • Fax: (440) 933-8248
web: www.watteredge.com

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SALES & MARKETING ORGANIZATIONS

.....

AEROSMITH WELDING

#1 Lydia Street
Smithfield Heights
Cairns, Queensland 4878
AUSTRALIA
Phone: 011-61-7-40-359-737
Fax: 011-61-7-40-359-737
E-mail: aerosmi@bigpond.net.au

ROLPH STEVEN SMITH, Aircraft Engineer & Welding Technologist

WORKING OFFICE LOCATION:

Hanger #9, Tom McDonald Drive
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.

.....

ATHENA PLUS, INC.

1521 Meridian Avenue
Anderson, IN 46016
Phone: 317-251-5301
765-622-0201
Fax: 765-622-4980
URL: www.athenaplus.com
www.rwesco.com
www.spotweldingsupport.com

REDD SMITH, Sales Manager

E-mail: red.smith@rwesco.com

TOM TESCHER, Sales Engineer

E-mail: tom.tescher@athenaplus.com

SUSIE LACEY, Office Manager

E-mail: Susie.lacey@athenaplus.com

G. J. DAUMEYER, III, Welding Engineer

E-mail: joe.daumeyer@rwesco.com

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 programming 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.

.....

APEX CONTROLS, INC.

3566 Highland Drive
PO Box 118
Hudsonville, MI 49426
Phone: 616-669-5111
Fax: 616-669-8115
E-mail: sales@apexcontrols.cc
URL: www.apexcontrols.cc

MICHAEL TEBOS, President

E-mail: mtebos@apexcontrols.cc

STEVE BOWERMAN, Engineering Manager

E-mail: sbowerman@apexcontrols.cc

MATT POST, Component Sales

E-mail: mpost@apexcontrols.cc

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 manufacturers 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.

8150 Business Way
Plain City, OH 43064
Phone: 614-733-0222
Fax: 614-733-0220
E-mail: info@autotoolinc.com
URL: www.autotoolinc.com

YUJI KOTAKA, Project Manager

E-mail: ykotaka@autotoolinc.com

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

Phone: 216-486-4200

800-443-7731

Fax: 216-383-4005

E-mail: alloy_tech_svc@brushwellman.com

URL: www.brushwellman.com

ED CURNOW, JR., Sales Engineer

E-mail: edward_curnow@brushwellman.com

DOUG VEITCH, Marketing Director

E-mail: douglas_veitch@brushwellman.com

BRANCHES:

Brush Wellman

27555 College Park Drive

Warren, MI 48088

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

URL: www.cistechnicalsolutions.com

MARK CHILD, Director

E-mail: mchild@cistechnicalsolutions.com

ROSS JEFFREY, Controls Manager

E-mail: rjeffrey@cistechnicalsolutions.com

MATT HANLEY, Welding Technologist

E-mail: mhanley@cistechnicalsolutions.com

MICHAEL ELACHKAR, Leader

E-mail: melachkar@cistechnicalsolutions.com

RORY WOODDISSE, Welding Technologist

E-mail: rwooddisse@cistechnicalsolutions.com

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.

.....

COPPER AND BRASS SALES

22355 West Eleven Mile Road

Southfield, MI 48034

Phone: 248-233-5600

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.

.....

DENGENSHA AMERICA CORPORATION

7647 First Place Drive

Bedford, OH 44146

Phone: 440-439-8081

DENGENSHA AMERICA CORPORATION (cont'd)

Fax: 440-439-8217
E-mail: sales@dengensha.com
URL: www.dengensha.com

DONALD J. GRISEZ, President
Phone: 440-439-8081, Ext. 13
E-mail: dgrisez@dengensha.com
DAN MORRIS, Vice President
Phone: 440-439-8081, Ext. 11
E-mail: dmorris@dengensha.com
THOMAS M. ZAMBELLI, Director of Business
Development

Phone: 440-439-8081, Ext. 14
E-mail: tmzambelli@dengensha.com

STEPHEN M. ANDRASSY, Sales Representative
Phone: 440-439-8081, Ext. 10
E-mail: sandrassy@dengensha.com

ROBERT DONOVAN, Electrical Engineer
Phone: 440-439-8081, Ext. 25
E-mail: bdonovan@dengensha.com

JOSEPH E. BRUNK, Inside Sales Manager
Phone: 440-439-8081, Ext. 16
E-mail: jbrunk@dengensha.com

KENICHI "KEN" TSUNODA, Japanese Sales
Engineering Manager
Phone: 440-439-8081, Ext. 20
E-mail: ktsunoda@dengensha.com

NAOYUKI "NATE" UKAI, Japanese Technical Engineer
Phone: 440-439-8081, Ext. 15
E-mail: nukai@dengensha.com

BRANCHES

CANADA

EVAN D. HALEY, Sales Representative
Phone: 416-989-6436
E-mail: sales@ehautomatedsolutions.com

MEXICO – SALTILLO/MONTERREY

ALVARO GALLEGOS
Phone: 011-52-844-431-7331
E-mail: agallegos@rialser.net

MEXICO – AGUASCALIENTES

ROGELIO GALLEGOS
Phone: 011-52-449-931-8768
E-mail: rogallegos@rialser.net

MEXICO – MEXICO CITY

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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, stationary spot welders, Diagnostic/Monitoring equipment, electrodes, caps, locating pins, weld controls, transformers, weld guns, holders, shunts, Device Net – Ethernet capabilities, special welders.

FREEPORT-McMoRAN COPPER AND GOLD

Bayway Operations

(Formerly Phelps Dodge Specialty Copper Products)

48-94 Bayway Avenue

Elizabeth, NJ 07202

Phone: 800-522-9929

Fax: 908-351-9475

E-mail: william_geissel@fmi.com

URL: www.pdscp.com

WILLIAM GEISSEL, Plant Manager

E-mail: william_geissel@fmi.com



Bayway Operations
48-94 Bayway Avenue
Elizabeth, New Jersey 07202

Tel (800) 522-9929 • Fax (908) 351-9475 • Web site: www.pdscp.com

Bill Geissel, *Plant Manager*
E-mail: William_geissel@fmi.com

John Corrado, *Technical Services*
E-mail: john_corrado@fmi.com

Milton Tann, *Sr. Customer Service Rep.*
E-mail: milton_tann@fmi.com

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 C180 alloy.
- Alloy selection includes Oxygen Free Copper, ETP copper and a wide variety of high-copper alloys.

FREEMPORT-McMoRAN COPPER AND GOLD (cont'd)

JOHN CORRADO, Technical Service

E-mail: john_corrado@fmi.com

MILTON TANN, Sr. Customer Service Representative

E-mail: Milton_Tann@fmi.com

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 customer'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.

.....

FUSION WELDING SOLUTIONS

20836 Hall Road, #321

Clinton Twp., MI 48038

Phone: 248-743-0725

Fax: 248-281-0991

E-mail: info@fusionwelding.com

URL: www.fusionwelding.com

CONNIE FROST, Administrative Manager

E-mail: cfrost@fusionwelding.com

CHARLES ORSETTE, Executive Weld Lab Manager

E-mail: corsette@fusionwelding.com

SERVICES PROVIDED:

Fusion Welding Solutions is a full service engineering service company that provides engineers at our customer's facilities as well as offering support and testing from our Resistance, ARC, and metallurgical laboratories.

.....

GESTAMP ALABAMA, INC.

7000 Jefferson Metropolitan Pkwy

McCalla, AL 35111

Phone: 205-497-6400

Fax: 205-497-6401

E-mail: jherrera@gestampna.com

URL: www.gestamp.com

JORGE PADILLA, Welding Engineer & Robotic Support

E-mail: jpadilla@gestampna.com

GESTAMP ALABAMA, INC. (cont'd)

JORGE HERRERA, Engineering Manager

E-mail: jherrera@gestampna.com

NEIL BALLARD, Project & Welding Engineer

E-mail: dballard@gestampna.com

SERVICES PROVIDED:

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

.....

HUYS WELDING STRATEGIES, LTD.

175 Toryork Drive, Unit #34

Weston, Ontario M9L 1X9

CANADA

Phone: 416-747-1611

Fax: 416-747-7171

E-mail: weldingstrategies@huysindustries.com

URL: www.huysweld.com

KEVIN CHAN, Technical Director

E-mail: kchan@huysindustries.com

CAM DAVIDSON, CAD/CAM Engineer

E-mail: cdavidson@huysindustries.com

DAN MAZEROLLE, Engineering Support

E-mail: dmazerolle@huysindustries.com

SANDRA FERNANDEZ, Secretary

E-mail: sfernandez@huysindustries.com

BRANCHES

MEXICO BRANCH

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.

INDUSTRIAL SUPPLIER LAREY, INC.

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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MANUFACTURAS EN COBRE ALEADO S.A. DE C.V.

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

ARTURO TREJO GARCIA, General Manager

E-mail: Arturo.trejo@macosa.org

ABEL GARCIA, Imports Manager

E-mail: abel.garcia@macosa.org

LUIS GARCIA VEGA, Sales Manager

E-mail: iila_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: ameeese@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.

NINGBO POWERWAY GROUP CO., LTD.

Taiping Bridge, Yunlong Town Yinzhou District
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

E-mail: lj@pwalloy.com

FANG WANG, International Sales

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

PO Box 349

Franklin, IN 46131

Phone: 800-423-5612

Fax: 317-738-2685

E-mail: info@nonferrousproducts.com

URL: www.nonferrousproducts.com

DENIS BRADY, President

E-mail: dbrady@nonferrousproducts.com

BEA REMMETTER-PAAR, Inside Sales Manager

E-mail: bremm@nonferrousproducts.com

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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624 107th Street

Arlington, TX 76011

Phone: 817-640-1190

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.

.....

RES MANUFACTURING COMPANY

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

PETE BATTISTA, President

E-mail: petebattista@msn.com

DETLEF GRISARD, National Accounts Manager

E-mail: detgrisard@aol.com

SHAWN PATZER, Buyer

E-mail: spatzer@resweld.com

JIM WOOD, Inside Sales

E-mail: woody@resweld.com

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.

.....

RoMAN ENGINEERING SERVICES, INC.

31683 Dequindre Road

PO Box 71128

Madison Heights, MI 48071

Phone: 248-585-5540

Fax: 248-585-5577

E-mail: khofman@romaneng.com

URL: www.romaneng.com

KURT HOFMAN, President

E-mail: khofman@romaneng.com

MIKE SOTER, Vice President

E-mail: msoter@romaneng.com

ROB TEED, Organizational Manager

E-mail: rteed@romaneng.com

DON MAATZ, Weld Lab Manager

E-mail: dmaat@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.

.....

SHERBROOKE METALS CORPORATION

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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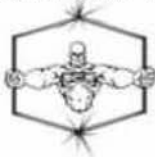
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AL RIHA, President
GARRET HERRINGDON, General Manager
E-mail: garret@southerncopper.com
BOB WALTA, Sales
E-mail: bobwalta@southerncopper.com
DAVID WALTA, Sales
E-mail: dwalta@southerncopper.com
FRED BURTON, Outside Sales
E-mail: fredburton@southerncopper.com

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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4209 Industrial Street
Rowlett, TX 75088
Phone: 972-475-0874
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SPOTWELDING CONSULTANTS, INC. (cont'd)

E-mail: info@spotweldingconsultants.com

URL: www.spotweldingconsultants.com

JOHN COLLINS, President

Email: jcollins@spotweldingconsultants.com

RON RHODES, Sales

Email: ron@spotweldingconsultants.com

DAVID MALDONADO, Sales

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.

.....

TOWER AUTOMOTIVE, LLC

27175 Haggerty Road

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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