

RWMA[®]
Resistance Welding Manufacturing Alliance



2010 Membership Directory

Joining to Promote
Resistance Welding Excellence

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*

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RWMA Secretary
RWMA Program Manager
Susan Hopkins
Ext. 295
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Objective 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

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NSRW, Inc.

Second Vice Chair **Mark Gramelspacher**
CMW Inc.

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RWMA Past Presidents/Chairs

Walter A. Anderson	1938-39
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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
Michael Simmons	2007-08

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 Mfg., 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 Mfg., Inc.
2006	Sandy Lee – RWC, Inc.
2007	Howard D. Johnston – CMW Inc.
2008	Bob White, Sr. – Janda Co.
2009	Larry Moss – Automation International, Inc.
2010	David Beneteau – CenterLine (Windsor) Ltd.

RWMA

Calendar of Events

2010

March 11-13

RWMA Annual Meeting

Palm Beach Gardens, Florida

PGA National Resort & Spa

**Co-located meeting with WEMCO – Welding
Equipment Manufacturers Committee*

May 11 - 13

**AWS Weldmex, METALFORM Mexico &
FABTECH Mexico Show**

Centro Banamex

Mexico City, Mexico

November 2-4

**FABTECH International & AWS Welding
Show**

Georgia World Congress Center

Atlanta, Georgia

November 2-3

Emmet A. Craig Resistance Welding School

Georgia World Congress Center

Atlanta, Georgia

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. 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.

NEW RWMA DVD AVAILABLE



COVERS:

- Basics of Resistance Welding
- Opportunities and growth
- Rudiments of Resistance Welding
- Advantages and Benefits
- Career path in resistance welding
- Tips for implementing resistance welding into a school's curriculum, and inclusion in the occupation-specific competencies.

This DVD can be provided as a tool to educators to promote the education of the resistance welding process.

If you would like your free copy of this DVD, contact Susan Hopkins, RWMA Program Manager, at susan@aws.org, or 800-443-9353, ext. 295.



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
Georgia World Congress Center
November 2-3, 2010
Atlanta, Georgia

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

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Resistance Welding Machine & Accessories
Southern Copper & Supply

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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.
Z.J. Industries, Inc.

INDIANA

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

CenterLine (Windsor) Ltd.

Electrodes & Allied Products Division

Copper and Brass Sales

Dengensha America Corporation

Dimplex Thermal Solutions

Flex-Cable

Fusion Welding Solutions

Lake Welding Supply Co.

Matuschek Welding Products, Inc.

Obara Corp., USA

Quality Brass Foundry

Resistance Welding Machine & Accessory

RoMan Engineering Services, Inc.

RoMan Manufacturing, Inc.

RWC, Inc.

Stegner Controls

Tec-Option

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

Huys Welding Strategies, Ltd.

Sensus USA, Inc.

OHIO

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

SOUTH CAROLINA

BF ENTRON, LLC
ECKA Granules of America
ENTRON Controls, LLC
Gilbert Industrial, Inc.
Tuffaloy Products, Inc.

TENNESSEE

NGK Metals Corporation
Roueché 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.

International

ARGENTINA

Rolasol S.R.L.

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

Huys Industries Limited

Huys Welding Strategies, Ltd.

Resistance Welding Products (1987), Ltd.

Techno Control Cybernetics, Inc.

Tipaloy, Inc.

Weld Management Solutions, Inc.

CHINA

Heron Machine & Electric Industrial Co., Ltd.

Luvata Ohio, Inc.

Ningbo Powerway Alloy Materials Co., Ltd.

Prevail Technology (Shenzhen) Co., Ltd.

Shanghai Mountain Welding Industries Co., Ltd.

Welform Precision, Ltd.

GERMANY

Dimplex Thermal Solutions (Riedel)

INDIA

Kriton Weld Equipments 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.
Icesa Welding Systems
Manufactora y Suministros Industriales, S.A. de C.V.
(Masinsa)
Manufactores en Cobre Aleado S.A. de C.V.
Obara Mexico, S.A. de R.L. de C.V.

UNITED KINGDOM

BF ENTRON, LLC
Bolton Power Ltd.
Luvata, Inc.
MTI Welding Technologies, Ltd.
(formerly British Federal)

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

(Seedorff Acme Corporation)

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Fax: 714-252-5335

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Web: www.seedorffwelders.com

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E-mail: ernie@seedorffwelders.com

HELMUT SIMON, Engineering

E-mail: helmut@seedorffwelders.com

BRANCHES

SAN DIEGO OFFICE

E-mail: sd@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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E-mail: smohammed@automation-intl.com

BRIAN GALLAGHER, Production Manager

E-mail: bgallagher@automation-intl.com



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Seam Welders

Butt Welders

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Tooling



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Spot Welding Consumables
and Supplies

AUTOMATION INTERNATIONAL, INC. (cont'd)

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.

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Web: www.bannerweld.com

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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.

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

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Santo Andre SP 09111-000

BRASIL

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LUCINEIA MIRANDA, Secretary

E-mail: clientes@conancontroles.com.br

EDUARDO RODRIGUES, Technician

E-mail: engenharia@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 years in Brazil. This enables ConAn, through its exclusive operational systems, to guarantee the most rigorous standards with deliveries and costs that attend to the real needs of its clients.

**CONSULTORES Y SERVICIOS
INDUSTRIALES, S.A. DE C.V.**

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Queretaro, Qro. 76148

MEXICO

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DAVID HURTADO, Sales Manager

E-mail: ventas@consi.com.mx

PRODUCTS MANUFACTURED:

Consi designs and manufactures quality production resistance welding machines and equipment in Mexico since 1981. Machine types include proprietary special and standard resistance welders; spot, seam, butt, projection, and portable gun from 25 to 250 KVA. Suspension type Welding Guns from 27 to 48 KVA made by WPI Taiwan. Remanufacture existing equipment to meet customers' specific requirements. Resistance welding transformers repair and rebuild services for all brands. Your source in Mexico for copper alloys RWMA rod, bar and plate. Electrodes, caps, shanks, adapters, seam weld wheels. Air and water-cooled cables, laminated shunts, SCR's, water chillers, ENTRON, Forwel and Unitrol controls. They offer in-house tooling design, service, technical assistance, in-site training and seminars.

CYBERSMITH ENGINEERING

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Fax: 641-585-2348

E-mail: jack@cybersmithengr.com

Web: www.cybersmithengr.com

JACK SMITH, President

E-mail: jack@cybersmithengr.com

NICK SMITH, Associate Machine Designer

E-mail: nick@cybersmithengr.com

PRODUCTS MANUFACTURED:

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

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

Web: www.ewaldinstruments.com

www.ptswelding.com

RICHARD VREELAND, President

E-mail: rsv2@aol.com

PRODUCTS MANUFACTURED:

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

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WILLIAM A. DeGROOTE, President
E-mail: bill@gilbertindustrial.com
LORRAINE MURPHY, Manager
E-mail: lorraine@gilbertindustrial.com
DUANE STODDARD, Technician
E-mail: duane@gilbertindustrial.com
JOHN DeGROOTE, Sr. Technician
E-mail: johnd@gilbertindustrial.com

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.

HERON MACHINE & ELECTRIC INDUSTRIAL CO., LTD.

No.9 Feng Ying Road
CongHua Economic & Technique Development Zone
Guangzhou CHINA
Phone: 86-20-87813325
Fax: 86-20-87813346
Web: www.heronwelder.com/en/aboutus/aboutus.asp

BILL ZOU, President
E-mail: bill@heronwelder.com

SERVICES PROVIDED:

Heron Machine & Electric Industrial Co., Ltd. are manufacturers of Spot welding machines; Press welding machines; Seam welding machines; Multi spot welding machines; Flash butt welding machines; Capacitor discharge welding machine; Punch rivet machine; Folding machine; Custom welding machines specific to the customer's requirements. Their product line has been supplied to the automobile, battery and hardware manufacturing industries, lighting industry, just to name a few.

Heron Machine & Electric Industrial is also a distributor of BTM Corporation (USA) for the mainland Chinese Market. They will focus on the distribution of BTM standard products such as Tog-L-Loc Tooling; Toggle Presses; Clamps and Grippers to the sheet metal manufacturing market, They integrated BTM standard products into special machine built for the Chinese, Automobile, Appliance and hardware manufacturing sectors.

ICESA WELDING SYSTEMS

(aka Icesa Modicon)

Av. San Vicente 7 San Migeul Xochimanga
Atizapan Estado de Mexico
52927 MEXICO

Phone: 0115255 11631763
Fax: 0115255 11631754
E-mail: spatton@icesamodicon.com.mx
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HARRY H. PATTON, Chairman

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FIDEL CORDERO MORALES, Welding Manager

E-mail: fcordero@icesamodicon.com.mx

AMADO ALAVEZ GARCIA, Product Manager

E-mail: aalavez@icesamodicon.com.mx

BRANCHES

San Juan Del Rio, Queretaro
Av. Tomas Alba Edison 7 Col Industrial el Oro
San Juan del Rio, Queretaro, Mexico 78802

Saltillo, Coahuila
Prol Venustiano Carranza sn
Col El Barratillo
Ramos Arizpe, Coahuila 25900

PRODUCTS MANUFACTURED:

Icesa Welding Systems is a full-service supplier for resistance welding equipment and processes. Icesa has been offering innovative welding solutions to their customers in Mexico since 1976. They design and manufacture a proprietary line of Pedestal Welders for spot and projection welding. Icesa also supplies special welding machines and welding robot cells. They can supply solutions from very manual systems to fully automated multi-station machines, complete with all Locating and Welding Controls, welding machines and weld cylinders.

JANDA COMPANY, INC.

1275 Railroad Street
Corona, CA 92882
Phone: 951-734-1935
Fax: 951-734-0649
E-mail: sales@jandawelders.com
Web: www.jandawelders.com

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BOB WHITE, JR., President

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SHERYL DREILING, Vice President

E-mail: sheridreiling@jandawelders.com

RICHARD GAINER, Sales Director

E-mail: rick@jandawelders.com

JACK FORNELLI, Outside Sales Manager

E-mail: sales@jandawelders.com

JANDA COMPANY, INC. (cont'd)

RHONDA BURTON, Inside Sales Manager

E-mail: rhonda@jandawelders.com

ALLIE DREILING, Marketing Director

E-mail: allie@jandawelders.com

PRODUCTS MANUFACTURED:

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

KRITON WELD EQUIPMENTS PVT. LTD.

406, G.I.D.C. Estate, Makarpura

Vadodara Gujarat

390010 INDIA

Phone: 91-265-2645070

Fax: 91-265-2638761

E-mail: purohit@kritonwelders.com

Web: www.kritonwelders.com

K. B. PUROHIT, C.M.D.

E-mail: info@kritonwelders.com

VISHAL PUROHIT, Director

E-mail: purohit@kritonwelders.com

BRANCHES:

Kriton Weld 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, MMA, GTAW, GMAW welding equipment, including strip welder, along with shears, PLC, notcher, side guides and weld controllers. All machines at KRITON welders are strictly manufactured as per ISS/RWMA (USA) standards, incorporating latest technological developments and controls with highest order of quality and performance. Kriton has installed capacity of 700 KVA power to test and trial the heavy Welding Equipments manufactured. Outside India, Kriton has exported equipment to nearly 22 countries. Continuous expansions and developments are regular processes at Kriton. They are distributors of "Unitrol" products in this part of the world.

LORS MACHINERY, INC.

1090 Lousons Road

Union, NJ 07083

Phone: 908-964-9100

Fax: 908-964-4492

E-mail: sales@lors.com

service@lors.com

Web: www.lors.com

EDWARD J. ONNY, Chairman of the Board

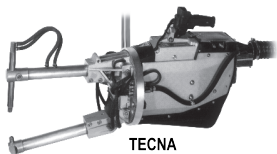
LORS-TECNA

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 616

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. (cont'd)

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PRODUCTS MANUFACTURED:

LORS Machinery, Inc., is a Union, New Jersey based full service resistance welder manufacturer of standard Press, Projection, Rocker-Arm, Bench-Type and Upset Butt welders. LORS also designs and builds multiple-spot and dedicated special welders, together with weld fixtures, special weld tooling, wire bending and trimming equipment. LORS Distributors are located in major manufacturing areas of North America. Markets served also include Central and South America, Asia, Europe, the Mid-East and North Africa. Since 1987, LORS is the exclusive importer/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 also represents the Koyo Giken line of MY SPOT welders from Japan. 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.

MIYACHI UNITEK CORPORATION

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DAVE CIELINSKI, Vice President of Standard Product R&D

Phone: 626-930-8573
E-mail: dave.cielinski@muc.miyachi.com

PRODUCTS MANUFACTURED:

Miyachi Unitek offers turn-key solutions for resistance welding applications including controls, weld heads, weld quality monitors, and resistance weld accessories for the 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. The company also provides turn-key systems for projection welding and seam sealing electronic packages as well as a full line of glovebox atmospheric chambers. Through a sister company, Miyachi Unitek Europe, Miyachi Unitek provides system solutions for reflow soldering and hot bar bonding, as well as resistance and laser welding for the European market.

MTI WELDING TECHNOLOGIES, LTD.

(formerly British Federal)

Building 80 Bay 1, 1st Avenue
Pensnett Estate
Kingswinford Dudley DY67FQ
ENGLAND

Phone: 44-0-1384-277502
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E-mail: Richard.jones@mtiwelding.co.uk
jones.richard@mtiwelding.co.uk
Web: www.britishfederal.com

MTI WELDING TECHNOLOGIES, LTD. (cont'd)
(formerly British Federal)

RICHARD JONES, Managing Director
E-mail: Richard.jones@mtiwelding.co.uk
Jones.richard@mtiwelding.com

PRODUCTS MANUFACTURED:

MTI Welding Technologies, Ltd., is recognized as global suppliers of all types of resistance welding machines and controls. All processes are offered including bespoke and standard spot seam and butt welding machines. A full range of servo machines for aircraft and non-aircraft, up to 45rn are provided as well as robotic and non-robotic weld guns.

**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
Web: www.nsrw.com

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STAN SIMS, Outside Sales
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GLEN HAMER, Sales
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DARREN MILLER, Sales
E-mail: dmiller@nsrw.com
KATRINA BLACKWELL, Purchasing
E-mail: kblackwell@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 2, 3, 4, and 110 Bus Class 11 and 12 copper tungsten, 13 tungsten, 14 molybdenum and Anviloy 1150 are also available. In stock and ready to ship a complete line of resistance welding supplies including: electrodes, caps, shanks, adapters, seam weld wheels, air and water cooled welding cables, transformers, SCR's and controls. Engineering available to assist your manufacturing needs. NSRW can design new machines or remanufacture existing equipment to meet your specific requirements. In-house tooling design and service. Seminars are also available.

PREVAIL TECHNOLOGY (SHENZHEN) CO., LTD.

No. 25 Caitian Road
Shatian Industrial Zone
Kengzi Town, Longgang District
Shenshen Guangdong
CHINA
Phone: 86-0755-286-18888
Fax: 86-0755-286-19999
E-mail: info@hkprevail.com
Web: www.hkprevail.com/en/indexen.asp

PREVAIL TECHNOLOGY (SHENZHEN) CO., LTD. (cont'd)

CHEN (ALYSSA) SHUJUAN, Assistant General Manager
E-mail: info@hkprevail.com

PRODUCTS MANUFACTURED:

Prevail Technology is a high-tech corporation in the Chinese welding field, holding the management concept of "professional quality, honesty oriented and to-win", commits itself to provide increasing innovative and professional welding solutions, the equipment of high quality and sincere services to consumers, and create the maximum value and potential increase for consumers. They have many experts, Senior Engineers, and Technicians, capable of providing design and production of special equipment, as well as first class after service for customers. In 2004, Prevail Technology was issued "CCC" Certificate. In 2003, they acquired ISO9001:2000 Quality System Certification.

ROLASOL S.R.L.

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Buenos Aires
ARGENTINA 1639
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Fax: 54-11-46873379
E-mail: info@rolasolsrl.com.ar
Web: www.rolasolsrl.com.ar

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E-mail: fvseminara@ciudad.com.ar

VICTOR SEMINARA, Founder
CLAUDIO ROLDAN, Director of Sales
SERGIO VERDIEGO, Technical Director

PRODUCTS MANUFACTURED:

Rolasol S.R.L. specializes in the manufacturing of equipment for resistance welding. They currently manufacture equipment for solar points 10-15-20-30 kva pedal (manual) and pneumatic. Also, Rolasol performs repairs on any make and model resistance welding equipment. They represent several foreign companies in the welding industry, such as Taylor Stud Welding (UK) and Sellstrom (USA). Rolasol S.R.L. is currently negotiating with several companies representing the following countries: USA, Japan, Germany and Denmark.

ROUECHE COMPANY, THE

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

JERRY M. ROUECHE, President
GARY DAVENPORT, Plant Manager

PRODUCTS MANUFACTURED:

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

RWC, INC.

2105 South Euclid Avenue
PO Box 920
Bay City, MI 48707-0920
Phone: 989-684-4030
Fax: 989-667-3426
E-mail: rwcsales@rwcinc.com
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LYLE J. BINIECKI, Vice President
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E-mail: lbinniecki@rwcinc.com

RONALD W. RICHARDSON, Vice President
Phone: 989-671-6953
E-mail: rrichardson@rwcinc.com

PRODUCTS MANUFACTURED:

RWC produces 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: info.sciaky@psi-corp.com
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KENN LACHENBERG, Manager, Engineering
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LANG PETERSON, Finance Manager
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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. 568 Hua Bo Road
Huatin Town, Jiading District
Shanghai 201809
Peoples Republic of China
Phone: 86-21-399-00689 (China)
626-698-8066 (USA)
Fax: 86-21-399-00589
E-mail: mt2005@188.com
Web: www.mtwelder.com

KANG HONG, General Manager
E-mail: mt2005@188.com
JIANG QIKUI, Deputy General Manager
E-mail: mt2005@188.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 Conners Road
PO Box 268
Winston, GA 30187-1463
Phone: 770-949-2479
800-365-9943
Fax: 770-489-1826
E-mail: jim@srwelder.com
Web: www.srwelder.com

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E-mail: jim@srwelder.com
FAYE DALLY, Secretary/Treasurer
E-mail: faye@srwelder.com
CYNDIE STAFFORD, Office Manager
E-mail: cyndie@srwelder.com

PRODUCTS MANUFACTURED:

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

TECNA S.p.A.

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Castel San Pietro 40024
ITALY
Phone: 39-051-695-4411
Fax: 39-051-695-4490
E-mail: sales@tecna.net
Web: www.tecna.net

GIORGIO GALLI, Commercial Director
E-mail: Giorgio.galli@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

Web: www.lors.com

PRODUCTS MANUFACTURED:

Spot and Projection Bench Machines, 16-150 KVA; Medium Frequency versions from 19 up to 36.000A. Single-phase projection linear action welding machines, 35-315 KVA; Medium frequency versions from 18 up to 90.000A. D.C. three-phase linear action welding machines, 100-630 KVA. CNC flexible system for resistance welding, 2-5 axes. Automatic air operated suspended guns with built-in transformer, 16-75 KVA; medium frequency versions from 18 up to 40.000A. Rocker arm spot welders 12-50KVA. Modular spot welders: twin spot, rocker arm, linear action, Welding control units, with microprocessor, ammeter, adaptive, constant current and standard versions. Test and measurement instruments for resistance welding machines. Balancers from 0.4 up to 180 kg, Stroke 1600-3000mm. Welding guns for car body repair, portable and self-contained, hand air operated, single and three-phase medium frequency versions D.C. 2-25 KVA powers.

TEC-OPTION

334 Sherman Street

Blissfield, MI 49228

Phone: 517-486-6055

Fax: 517-486-2352

E-mail: sales@tec-option.com

Web: www.tec-option.com

BRYAN DOMSCHOT, President

E-mail: bryan@tec-option.com

PRODUCTS MANUFACTURED

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

TENNESSEE RAND, INC.

702 Moccasin Bend Road

Chattanooga, TN 37405

Phone: 423-664-7263

Fax: 423-664-7264

E-mail: sales@tennrand.com

Web: www.tennrand.com

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ANDREW NEELY, Vice President of Advanced Systems

E-mail: aneely@tennrand.com

TENNESSEE RAND, INC. (cont'd)

JOHN MEEK, Engineering Manager

E-mail: jmeek@tennrand.com

PAT McDANIEL, Engineering Team Leader

E-mail: pmcdaniel@tennrand.com

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

Web: www.tjsnow.com

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THOMAS J. SNOW, JR., Chairman/CEO

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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 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.



T.J. SNOW



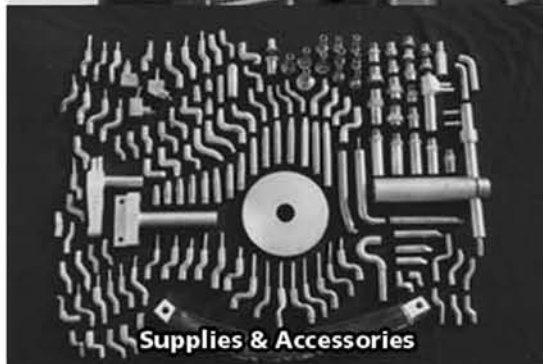
Standard Resistance Welders
New & Remanufactured



Custom Resistance Welders



Robotic Welding Cells



Supplies & Accessories



Call Josh for **FAST SERVICE**
on welders & controls

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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.

Copper Products 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.

BOLTON POWER LTD.

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United Kingdom

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SIMON DAVENPORT, Sales Manager

E-mail: sdavenport@boltonmetals.com

PRODUCTS MANUFACTURED:

Bolton Power manufactures copper and copper alloy products in the form of rod, bar, sections and forgings. Their market includes resistance welding, power generation and rotating electrical machinery. Specialist products include welding electrode materials, rotor bars, rings, rotor copper, commutator bars and segments. On-site equipment includes extrusion presses, draw benches, alloy foundry, machine shop, tooling shop, heat treatment furnaces, CNC punching and testing laboratories.

CADI COMPANY, INC.

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Fax: 248-375-1856

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

PRODUCTS MANUFACTURED:

Wrought (extruded and forged) bars available in rounds, rectangles and squares, hexagons and plate. Custom shapes are also produced. Full cutting and machining capabilities enable Cadi to supply materials to customer's specification in RWMA Class I, II, III and IV 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 materials, such as copper tungsten in RWMA Class 10, 11 and 12 as well as Pure Tungsten and Pure Molybdenum, RWMA Class 13 and 14 respectively.

**CENTERLINE (WINDSOR) LTD.
ELECTRODES & ALLIED PRODUCTS DIVISION**

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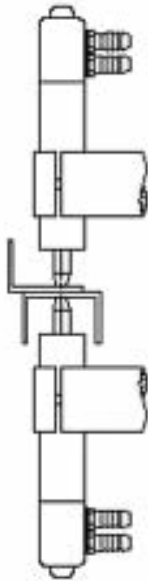
PRODUCTS MANUFACTURED:

Manufacturer of the complete range of standard and custom resistance welding consumables and components including: cold-formed RWMA and ISO cap electrodes; threaded and button caps; nut and projection welding electrodes; machined and formed electrodes; adapters; holders; fabricated and machined welding gun and machine components; plus, tooling and other accessories for welding. A complete range of component repair services including welding, CenterLine's patented cold gas-dynamic spray metal deposition process and machining services.

CMW INC.

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E-mail: cmw@cmwinc.com
Web: www.cmwinc.com

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GCAP® Electrode
"NU-TWIST"® Electrode
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KARON HARRIS, Customer Service Representative

E-mail: kharris@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® FINNCAP 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.

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MARKUS HOFMOCKEL, Product Manager

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PRODUCTS MANUFACTURED:

ECKA Granules manufactures and distributes DISCUP® Dispersion Strengthened Copper for components in resistance welding, projection welding, stud welding, seam welding, and other welding processes, such as MIG, and submerged arc. ECKA Granules supplies DISCUP in a wide range of sizes, and a variety of mill shapes, including round, hex, rectangular bar, and tubing. DISCUP provides unmatched resistance to softening following high temperature exposure, high electrical and thermal conductivities, and high strength and hardness.

In addition, ECKA Granules manufactures and distributes a full range of nickel, iron, and cobalt alloy powders for thermal spray for a wide range of application methods including HVOF, plasma, PTA, and coldspray. Nickel and copper alloy brazing powders are also offered.

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

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PRODUCTS MANUFACTURED:

All standard, custom, cold formed, and machined RWMA and ISO electrodes, accessories and consumables, such as holders, fixtures, and fabricated and machined parts and tooling. Patented TiCap™ titanium carbide coated electrodes, ParaCap™ parabolic electrodes, TriCoat™ multi-layered electrodes, "redress and recycle" programs, SORPAS software, FIRSTWELD, and Cost Per Weld unique cost saving programs. Patented Zirco® zirconium oxide and composite zirconium oxide-steel welding and locating pins. Weld training, weld parameter optimization and weld tool fixturing.

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Fax: 011-86512-62851020

LEON TANG, General Manager

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PRODUCTS MANUFACTURED:

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

MANUFACTURA Y SUMINISTROS INDUSTRIALES,

S.A. DE C.V. (MASINSA)

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Web: www.masinsa.com.mx

EDUARDO PORTILLA BARROS, General Manager

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PRODUCTS MANUFACTURED:

Manufactura y Suministros Industriales is a manufacturer and distributor of resistance welding consumable products, such as electrodes, caps, tips, shanks, adapters, shunts, cables, etc. They distribute copper alloys for applications in resistance welding and molds for plastics.



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MAYTE HERRERA, General Manager

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PRODUCTS MANUFACTURED:

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

RESISTANCE WELDING PRODUCTS (1987), LTD.

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LISSA VAN RIJN, Controller

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PRODUCTS MANUFACTURED:

RWP manufactures cold formed gun adapters and arms, RW electrodes and caps, nut welding electrodes and pins, threaded and straight shank adapters, air and water cooled cables, shunts and flexible buss. A complete list of weld gun components to finished product, as well as repair for all OEM weld guns and related components. Manufacturer of power transmission components with full plating and covering options available. We also carry a complete inventory of non-ferrous materials, including copper alloys,

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aluminum , brass, bronze, tungsten and stainless steel in rod, sheet, plate, cast and forge configurations.

TIPALOY, INC.

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PRODUCTS MANUFACTURED:

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

TUFFALOY PRODUCTS, INC.

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800-521-3722
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Web: www.tuffaloy.com

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DENNIS BAKER, Manufacturing Manager

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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.

WELFORM ELECTRODES, INC.

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JIM BEACH, Managing Director Asia

E-mail: jim.beach@welform.com

BEN CHEN, Sales Manager

E-mail: Ben.Chen@welform.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.

Z.J. INDUSTRIES, INC.

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Fax: 630-543-6644

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NIC JAJIC, Vice President

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PRODUCTS MANUFACTURED:

Z.J. Industries Incorporated is a full service resistance welding product manufacturer maintaining a large and diverse inventory of welding electrodes, tips, adapters, holders, shunts, cables, welding machine arms, seam welding wheels, resistance welding controls, tip dressers, copper alloys and accessories.

ZJ parts are being used worldwide to manufacture such products as automotive parts, computer housings, hollow metal doors, metal furniture, kitchen appliances, wire displays, shelving, etc.

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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Greer, SC 29650

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PRODUCTS MANUFACTURED:

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

CAL MANUFACTURING COMPANY, INC.

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E-mail: calcables@aol.com

Web: www.calmfginc.com

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BRIAN BENSON, Plant Manager
E-mail: calcables@aol.com

PRODUCTS MANUFACTURED:

Cal Manufacturing is a quality manufacturer of resistance welding cables, air-cooled, water-cooled, kickless, laminated shunts, furnace heating and induction cables. They also offer their patented swivel-king that will allow your cable to rotate up to 150 degrees in either direction. Cal Manufacturing is a small woman-owned business that offers the fastest delivery available. In many cases they can expedite your order to ship the very next day.

**CENTERLINE (WINDSOR) LTD.
AUTOMATION COMPONENTS DIVISION**

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BRANCHES

PO Box 321187
Detroit MI 48232-1187
Phone: 313-961-3731

PRODUCTS MANUFACTURED:

CenterLine supplies a wide range of automation component products for robotic, fixture, and manual resistance welding production systems. Products include: the CenterLine® Flex-Gun™, OEM specific welding gun styles, OHMA® air/oil intensifying cylinders; the STAAC® family of low-impact pneumatic cylinders; the patented SmartElectrode™ nut detection system; Flex-Fast™ fastener welder platform; Rev-Tec™ servo indexing tables and custom tooling and automation products. From "Tips to Turnkey" CenterLine can supply any need.

DARRAH ELECTRIC COMPANY

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Phone: 216-631-0912
800-621-0014
Fax: 216-631-0440
E-mail: decdarrah@earthlink.net
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Centerline®



Welding Consumables



FLEX-GUN™ Weld Guns

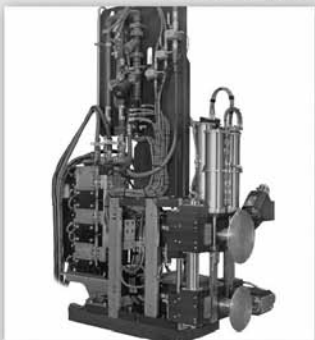


REV-TEC™ Rotary Tables



FLEX-FAST™ Welders

From "Tips to Turnkey", you can rely on CenterLine for innovative solutions to all your application needs.



SEAM-TEC™ Welder



SST Cold Spray



Custom Automated Assembly Systems



Smart Electrode™ Nut Detection

Tel: 800-249-6886 email: info@cntrline.com

www.cntrline.com

DARRAH ELECTRIC COMPANY (cont'd)

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Email: val_gelazis@darrahelectric.com

RAYMOND KROLL, Quality Control Manager

Phone: 216-631-9936

E-mail: ray_kroll@darrahelectric.com

PRODUCTS MANUFACTURED:

Darraha Electric Company offers a complete line of SCR Contactors for resistance welding in both air and water-cooled designs. Contactors are available in ratings from 5 KVA thru 1500 KVA applications. Solid-state ignitron tube and mechanical contactor replacements are also available. Darraha also offers a wide selection of air and water-cooled power semiconductor assemblies in all common circuit configurations.

They design and build D.C. Power supplies to 50 KA – 1500 VDC.

DIMPLEX THERMAL SOLUTIONS

(Formerly Schreiber Engineering & Koolant Koolers)

2625 Emerald Drive

Kalamazoo, MI 49001

Phone: 800-968-5665

Fax: 269-349-8951

E-mail: dthomason@dimplexthermal.com

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NATE NORMAN, Inside Sales

E-mail: nnorman@dimplexthermal.com

BRANCHES

GERMANY

Dimplex Thermal Solutions (Riedel)

Kulmbach, GERMANY

PRODUCTS MANUFACTURED:

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

ELECTRON BEAM TECHNOLOGIES, INC.

1275 Harvard Drive

Kankakee, IL 60901

Phone: 815-935-2211

Fax: 815-935-8605

E-mail: sales@electronbeam.com

Web: www.electronbeam.com

PAUL WLOS, President





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E-mail: sales@electronbeam.com

Closed Loop Cooling Solutions

DTS Features:

-  Totally self-contained with re-circulating pump
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-  Fused disconnect
-  Brazed plate evaporator
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-  Cleanable air filters
-  Non-ferrous wetted components
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The NEW MasterChill design for typical welding applications:

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- Tig Welding
- Mig Welding
- Seam Welding
- Projection Welding
- Laser Welding
- Butt Welding



Dimplex
Thermal Solutions

WWW.DIMPLEXTHERMAL.COM
1800-968-5665

ELECTRON BEAM TECHNOLOGIES, INC. (cont'd)

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

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GREG VAN DYKE, Sales

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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 in "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 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

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RICARDO LOPEZ, Chief Engineer

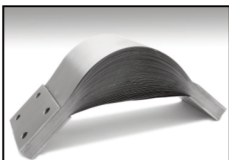
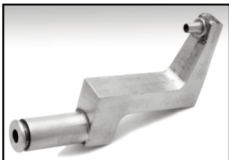
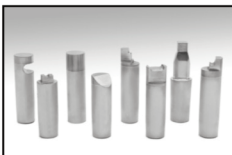
E-mail: rlopez@etal.com.mx

ESTER CORTES, Marketing Representative

E-mail: ecortes@etal.com.mx

**etal****ALL YOUR RESISTANCE
WELDING CONSUMABLES**

ETAL is a Mexican Company with over 40 years experience in the resistance welding industry, serving our customers throughout the Mexican Republic, South America and the United States.

**CAPS****SHUNTS****KICKLESS CABLES****HOLDERS****ELECTRODES****SEAM WHEELS****Manufacturer of:**

- Electrodes
- Shanks
- Adapters
- Caps
- Shunts
- Kickless Cables
- Seam Wheels and more

Processes:

- Copper Forge and Foundry
- Machining
- Brazing
- Cold Heading
- Powder Metal Technology

Technical Assistance:

- Welding courses
- Maintenance services
- Warehouse administration
- Specialty part design

**RWMA Standard Materials
such as:**

- Class 1- Electrolytic Copper
- Class 2- Copper, Chromium, Zirconium.
- Class 3- Copper, Nickel, Beryllium.
- Class 10- Copper, Tungsten
- Class 14- Molybdenum
- And more.

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Queretaro, MEXICO
Guadalajara, MEXICO
Silao, MEXICO
Saltillo, MEXICO
Monterrey, MEXICO

ARACELI FLORES, Regional Sales Representative
E-mail: aflores@etal.com.mx

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

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Fax: 231-937-8091
E-mail: email@flexcable.com
Web: 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.

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Fax: 714-549-3247
E-mail: ricky6@earthlink.net
Web: www.intertron-ind.com

RICKY MARTIN, President
E-mail: ricky6@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 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 Resistance Welding Equipment

MASTER® Adaptive Resistance Welding Control



One Weld Schedule - DOES IT ALL!!

MFDC & HFDC Resistance Welding Controls



High Current Resistance Welding Controls



Minature Part Welding



Matuschek Welding Products, Inc.
42378 Yearego • Sterling Heights, MI 48314 •
Phone (586) 991-2434 Fax (586) 991-2438
Email: info@matuschek.com • Internet: www.matuschek.com •

MATUSCHEK WELDING PRODUCTS, INC.

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Web: www.matuschek.com

LARRY WRIGHT, General Manager
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CHRIS OKADA, Sr. Sales Engineer
E-mail: christopher.okada@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 Real time Adaptive Feedback, QC Software solutions, Tolerance Band Control, and Fault Alert capabilities.

RoMAN MANUFACTURING, INC.

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Fax: 248-585-5577

KURT HOFMAN, President
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Quality Brass Foundry
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Fax: 616-243-2091

MIKE CRAMER, Foundry Manager
E-mail: mcramer@romanmfg.com

RoMAN MANUFACTURING, INC. (cont'd)

PRODUCTS MANUFACTURED:

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

SCHREIBER ENGINEERING CORPORATION

(See *DIMPLEX THERMAL SOLUTIONS*)

STEGNER CONTROLS

3333 Bald Mountain Road

Auburn Hills, MI 48326

Phone: 248-904-0403

Fax: 248-904-0401

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MARK MAJEWSKI, Director of Body Assembly Sales

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BOB YAGER, Director of Factory Automation

E-mail: byager@morrellinc.com

PRODUCTS MANUFACTURED:

Stegner Controls is the integrator of Bosch Rexroth AC Welding Controls and MFDC Inverters. Control design, panel manufacturing, engineering service, sizing and specification of resistance welding components, prototype resistance welding, adaptive welding, integrated seventh axis servo control, and complete resistance welding cell capabilities are available. Design assembly, and wiring of special machine control panels, machine wiring, and fluids design capabilities.

TECHNO-CONTROL CYBERNETIC, INC.

3470 Enterprise Boul.

Terrebonne, Quebec J6X 4J8

CANADA

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FRANCOIS LIZOTTE, Electronic

DENIS LABROSSE, Sales, Communication and Marketing

VERONIQUE DERDEYN, Industrial Designer


DIANE DERDEYN, Executive Secretary and Accounting

PRODUCTS MANUFACTURED:

Techno-Control Cybernetic, Inc. manufactures dependable single-phase AC digital resistance welding controllers. The different Series of controllers are available with water-cooled SCR's, applied pressure monitor control (option), keypad programming, modular, upgradeable, production-oriented, very user-friendly, and can be adapted to the customer's specific needs. They supply controllers and control systems that can replace old controllers for all types and various resistance welding applications (rocker arm, seam, butt, multi-

head, multiple sequence welders, guns and bench). Specialized in resistance welding controllers, they also offer and manufacture special and standard resistance welding equipment, consulting services, course in resistance welding, and carry a full line of replacement parts and consumables, including new and rebuilt welding transformers, shunt, resistance welding-related pneumatics, copper alloys, electrodes, etc. Their technical department can upgrade, refurbish, adapt and service to original specification all existing resistance welding equipment.

A solely resistance welding-oriented company.

 Ronald Leibovitz <i>Vice President</i>	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
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- Resistance Welding Controls
- Temperature Feedback Resistance Brazing
- Water Chillers And Coolers
- Resistance Welding Technology

UNITROL ELECTRONICS, INC.

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



WATTEREDGE

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.

Cellar Services a division of Watteredge, Inc.

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

- Robot Dress Out & Cable Clamps/Brackets
- Weld Test Tools and Equipment
- Abrasion Protection and Repair
- Industrial Specialty Items
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567 Miller Road • Avon Lake, Ohio 44012-2304
Phone: (440) 933-6110 • Fax: (440) 933-8248
web: www.watteredge.com

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REGISTERED

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ED LANGHENRY, JR., Sales

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PRODUCTS MANUFACTURED:

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

Associate Member Division

SALES & MARKETING ORGANIZATIONS

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MATT POST, Component Sales

E-mail: mpost@apexcontrols.cc

SERVICES PROVIDED:

Apex Controls is the manufacturer's 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.

BRUSH WELLMAN, INC.

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Mayfield Heights, OH 44124

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800-443-7731
Fax: 216-383-4005
E-mail: alloy_tech_svc@brushwellman.com
Web: www.brushwellman.com

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E-mail: barbara_munderloh@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 Mayfield Heights, 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.

COPPER AND BRASS SALES

22355 West Eleven Mile Road
Southfield, MI 48034
Phone: 248-233-5600
Fax: 248-233-5777
Web: www.copperandbrass.com

DAVE VASSAR, Product Manager, Copper Alloys

Phone: 419-662-1837
Fax: 419-662-6586
E-mail: dave.vassar@thyssenkrupp.com

SERVICES PROVIDED:

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

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Fax: 908-351-9475

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Web: www.fcx.com/metals/bayway.htm

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MILTON TANN, Senior. Customer Service Representative

E-mail: Milton_Tann@fmi.com

WILLIAM GEISSEL, Plant Manager

E-mail: william_geissel@fmi.com

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DAVE DiBIASE, National Sales Manager

E-mail: ddibiase@fusionwelding.com

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E-mail: chris@kvawelding.com

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DENNIS KING, Resistance Welding Specialist

E-mail: dking@lakewelding.com

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E-mail: tlesneski@lakewelding.com

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NORMAN LAZARUS, Sr. Vice President

E-mail: nlazarus@nbmmetals.com

GERARDO GARCIA, Specialty Metals Account Executive

E-mail: ggarcia@nbmmetals.com

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Web: www.ngkmetals.com

DAVID ST. AMOUR, Great Lakes Regional Sales Manager
E-mail: dstamour@ngkmetals.com

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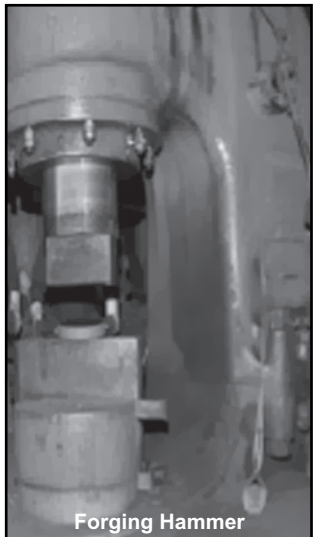
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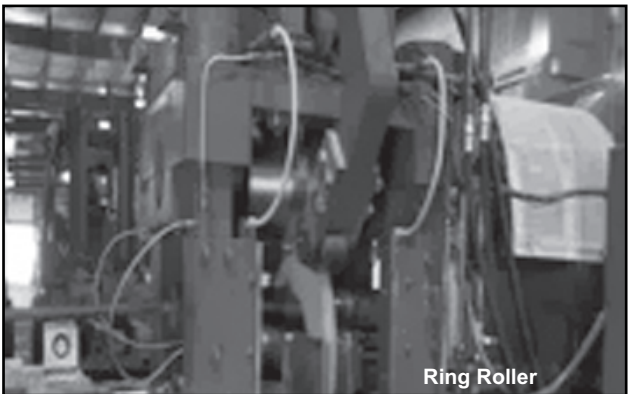
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RAJEEV JAIN, Vice President, Sales

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STEVE McQUEEN, Distribution Manager

E-mail: smcqueen@ibcadvancedalloys.com

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MIKE CRAMER, Foundry Manager

E-mail: mcramer@romanmfg.com

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E-mail: spatzer@resweld.com

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E-mail: woody@resweld.com

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Web: www.towerautomotive.com

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

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CANADA

Phone: 604-251-2461

Fax: 604-251-2491

E-mail: vatche@weldms.com

Web: www.weldms.com

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