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Web: http://www.aws.org/rwma

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

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

RWMA Secretary
RWMA Program Manager
Susan Hopkins
Ext. 295
susan@aws.org
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.
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Arend Bruinsma 1965-66
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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
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James Tiegltman 1989-90
Robert Hofman 1991
Sanford L. Lee 1992-93
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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
<table>
<thead>
<tr>
<th>Year</th>
<th>Name</th>
<th>Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>1986</td>
<td>T. Embury Jones</td>
<td>Precision</td>
</tr>
<tr>
<td>1987</td>
<td>H. A. Neid</td>
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<tr>
<td>1988</td>
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<td>Newcor</td>
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<tr>
<td>1989</td>
<td>Joseph H. Cooper</td>
<td>Taylor-Winfield</td>
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<td>1990</td>
<td>A. W. Schueler</td>
<td>Precision</td>
</tr>
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<td>1991</td>
<td>J. F. Deffenbaugh</td>
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</tr>
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<td>1992</td>
<td>L. J. Murto</td>
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<tr>
<td>1993</td>
<td>C. J. Collom</td>
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<td>1994</td>
<td>J. P. Thorne</td>
<td>Newcor</td>
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<tr>
<td>1995</td>
<td>Donald J. Beneteau</td>
<td>CenterLine</td>
</tr>
<tr>
<td>1996</td>
<td>Dietrich K. Roth</td>
<td>RoMan Mfg., Inc.</td>
</tr>
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<td>1997</td>
<td>John Nichols</td>
<td>RWC, Inc.</td>
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<td>1998</td>
<td>Edward Green</td>
<td>Taylor-Winfield</td>
</tr>
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<td>1999</td>
<td>Walter D. Simmons</td>
<td>Tuffaloy Products</td>
</tr>
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<td>2000</td>
<td>Robert G. Cuff</td>
<td>ENTRON Controls</td>
</tr>
<tr>
<td>2001</td>
<td>Jim Morrissey</td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>John Sant</td>
<td></td>
</tr>
<tr>
<td>2003</td>
<td>T. James Snow, Sr.</td>
<td>T. J. Snow Co.</td>
</tr>
<tr>
<td>2004</td>
<td>Bob Matteson</td>
<td>Taylor-Winfield</td>
</tr>
<tr>
<td>2005</td>
<td>Bob Hofman</td>
<td>RoMan Mfg., Inc.</td>
</tr>
<tr>
<td>2006</td>
<td>Sandy Lee</td>
<td>RWC, Inc.</td>
</tr>
<tr>
<td>2007</td>
<td>Howard D. Johnston</td>
<td>CMW Inc.</td>
</tr>
<tr>
<td>2008</td>
<td>Bob White, Sr.</td>
<td>Janda Co.</td>
</tr>
<tr>
<td>2009</td>
<td>Larry Moss</td>
<td>Automation Int., Inc.</td>
</tr>
<tr>
<td>2010</td>
<td>David Beneteau</td>
<td>CenterLine (Windsor) Ltd.</td>
</tr>
</tbody>
</table>
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](http://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.

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.
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
### Alphabetical Index

#### A

<table>
<thead>
<tr>
<th>Company</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acme Electric Welder Company</td>
<td>20</td>
</tr>
<tr>
<td>Apex Controls, Inc.</td>
<td>63</td>
</tr>
<tr>
<td>Automation International, Inc.</td>
<td>20</td>
</tr>
</tbody>
</table>

#### B

<table>
<thead>
<tr>
<th>Company</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Banner Welder, Inc.</td>
<td>22</td>
</tr>
<tr>
<td>BF ENTRON, LLC</td>
<td>49</td>
</tr>
<tr>
<td>Bolton Power, Ltd.</td>
<td>37</td>
</tr>
<tr>
<td>Brush Wellman, Inc.</td>
<td>63</td>
</tr>
</tbody>
</table>

#### C

<table>
<thead>
<tr>
<th>Company</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cadi Company, Inc.</td>
<td>37</td>
</tr>
<tr>
<td>CAL Manufacturing Company, Inc.</td>
<td>49</td>
</tr>
<tr>
<td>CenterLine (Windsor) Ltd., Automation Components Division</td>
<td>50</td>
</tr>
<tr>
<td>CenterLine (Windsor) Ltd., Electrodes &amp; Allied Products Division</td>
<td>39</td>
</tr>
<tr>
<td>CMW Inc.</td>
<td>39</td>
</tr>
<tr>
<td>Conan Ind. E Com de Produtos</td>
<td>22</td>
</tr>
<tr>
<td>Eletro-Eletronicos Ltda.</td>
<td></td>
</tr>
<tr>
<td>Consultores y Servicios Industriales, S.A. de C.V.</td>
<td>23</td>
</tr>
<tr>
<td>Copper and Brass Sales</td>
<td>64</td>
</tr>
<tr>
<td>Cybersmith Engineering</td>
<td>23</td>
</tr>
</tbody>
</table>

#### D

<table>
<thead>
<tr>
<th>Company</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Darrah Electric Company</td>
<td>50</td>
</tr>
<tr>
<td>Dengensha America Corporation</td>
<td>64</td>
</tr>
<tr>
<td>Dimplex Thermal Solutions</td>
<td>52</td>
</tr>
</tbody>
</table>

#### E

<table>
<thead>
<tr>
<th>Company</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECKA Granules of America</td>
<td>41</td>
</tr>
<tr>
<td>Electron Beam Technologies, Inc.</td>
<td>52</td>
</tr>
<tr>
<td>ENTRON Controls, LLC</td>
<td>54</td>
</tr>
<tr>
<td>ETAL S.A. de C.V.</td>
<td>54</td>
</tr>
<tr>
<td>Ewald Instruments Corporation/PTS</td>
<td>23</td>
</tr>
<tr>
<td>Company Name</td>
<td>Page</td>
</tr>
<tr>
<td>--------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Flex-Cable</td>
<td>56</td>
</tr>
<tr>
<td>Freeport-McMoRan Copper and Gold – Bayway Operations</td>
<td>66</td>
</tr>
<tr>
<td>Fusion Welding Solutions</td>
<td>66</td>
</tr>
<tr>
<td>General Electrode Engineering Co., Inc. (GEECO)</td>
<td>41</td>
</tr>
<tr>
<td>Gilbert Industrial, Inc.</td>
<td>24</td>
</tr>
<tr>
<td>Heron Machine &amp; Electric Industrial Co., Ltd.</td>
<td>24</td>
</tr>
<tr>
<td>Huys Industries Limited</td>
<td>42</td>
</tr>
<tr>
<td>Huys Welding Strategies, Ltd.</td>
<td>68</td>
</tr>
<tr>
<td>Icesa Welding Systems</td>
<td>25</td>
</tr>
<tr>
<td>Industrial Supplier Larey, Inc.</td>
<td>69</td>
</tr>
<tr>
<td>Intertron Industries, Inc.</td>
<td>56</td>
</tr>
<tr>
<td>Janda Company, Inc.</td>
<td>25</td>
</tr>
<tr>
<td>Kriton Weld Equipments Pvt. Ltd.</td>
<td>26</td>
</tr>
<tr>
<td>KVA Resistance Welding Supply</td>
<td>69</td>
</tr>
<tr>
<td>Lake Welding Supply Co.</td>
<td>70</td>
</tr>
<tr>
<td>LORS Machinery, Inc.</td>
<td>26</td>
</tr>
<tr>
<td>Luvata Ohio, Inc.</td>
<td>43</td>
</tr>
<tr>
<td>Manufactura y Suministros Industriales, S.A. de C.V.S. (MASINSA)</td>
<td>44</td>
</tr>
<tr>
<td>Manufacturas En Cobre Aleado S.A. de C.V.</td>
<td>70</td>
</tr>
<tr>
<td>Matuschek Welding Products Inc.</td>
<td>58</td>
</tr>
<tr>
<td>Company Name</td>
<td>Page</td>
</tr>
<tr>
<td>--------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Miyachi Unitek Corporation</td>
<td>28</td>
</tr>
<tr>
<td>MTI Welding Technologies, Ltd.</td>
<td>28</td>
</tr>
<tr>
<td>(formerly British Federal)</td>
<td></td>
</tr>
<tr>
<td>National Bronze &amp; Metals, Inc.</td>
<td>70</td>
</tr>
<tr>
<td>NGK Metals Corporation</td>
<td>71</td>
</tr>
<tr>
<td>Ningbo Powerway Alloy Materials Co., Ltd.</td>
<td>71</td>
</tr>
<tr>
<td>Nonferrous Products, Inc.</td>
<td>71</td>
</tr>
<tr>
<td>NSRW, Inc.</td>
<td>29</td>
</tr>
<tr>
<td>Obara Corp., USA</td>
<td>44</td>
</tr>
<tr>
<td>Prevail Technology (Shenzhen) Co., Ltd.</td>
<td>29</td>
</tr>
<tr>
<td>Quality Brass Foundry</td>
<td>73</td>
</tr>
<tr>
<td>Quality Honeycomb, Inc.</td>
<td>73</td>
</tr>
<tr>
<td>Resistance Welding Machine &amp; Accessory</td>
<td>73</td>
</tr>
<tr>
<td>Resistance Welding Products (1987), Ltd.</td>
<td>45</td>
</tr>
<tr>
<td>Rolasol S.R.L.</td>
<td>30</td>
</tr>
<tr>
<td>RoMan Engineering Services, Inc.</td>
<td>74</td>
</tr>
<tr>
<td>RoMan Manufacturing, Inc.</td>
<td>58</td>
</tr>
<tr>
<td>Roueche Company, The</td>
<td>30</td>
</tr>
<tr>
<td>RWC, Inc.</td>
<td>31</td>
</tr>
<tr>
<td>Sciaky, Inc.</td>
<td>31</td>
</tr>
<tr>
<td>Schreiber Engineering Corporation</td>
<td>59</td>
</tr>
<tr>
<td>Seedorff Acme Corporation</td>
<td>31</td>
</tr>
<tr>
<td>Sensus USA, Inc.</td>
<td>74</td>
</tr>
<tr>
<td>Shanghai Mountain Welding Industries Co.</td>
<td>32</td>
</tr>
<tr>
<td>Company Name</td>
<td>Page</td>
</tr>
<tr>
<td>--------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Sherbrooke Metals Corporation</td>
<td>75</td>
</tr>
<tr>
<td>Southern Copper &amp; Supply</td>
<td>75</td>
</tr>
<tr>
<td>Spotwelding Consultants, Inc.</td>
<td>77</td>
</tr>
<tr>
<td>Standard Resistance Welder Co.</td>
<td>32</td>
</tr>
<tr>
<td>Stegner Controls</td>
<td>59</td>
</tr>
<tr>
<td>Taylor-Winfield Corporation, The</td>
<td>36</td>
</tr>
<tr>
<td>Tec-Option</td>
<td>33</td>
</tr>
<tr>
<td>Techno Control Cybernetics, Inc.</td>
<td>59</td>
</tr>
<tr>
<td>Tecna S.p.A.</td>
<td>32</td>
</tr>
<tr>
<td>Tennessee Rand, Inc.</td>
<td>33</td>
</tr>
<tr>
<td>Tipaloy, Inc.</td>
<td>46</td>
</tr>
<tr>
<td>T. J. Snow Company, Inc.</td>
<td>34</td>
</tr>
<tr>
<td>Tower Automotive, LLC</td>
<td>77</td>
</tr>
<tr>
<td>Tuffaloy Products, Inc.</td>
<td>46</td>
</tr>
<tr>
<td>Unitrol Electronics, Inc.</td>
<td>60</td>
</tr>
<tr>
<td>Watteredge, Inc.</td>
<td>62</td>
</tr>
<tr>
<td>Weld Management Solutions, Inc.</td>
<td>78</td>
</tr>
<tr>
<td>Welform Electrodes, Inc.</td>
<td>47</td>
</tr>
<tr>
<td>Z. J. Industries, Inc.</td>
<td>48</td>
</tr>
</tbody>
</table>
Geographical Index

ALABAMA
Fusion Welding Solutions
NSRW, Inc.
Resistance Welding Machine & Accessories
Southern Copper & Supply

CALIFORNIA
ACME Electric Welder Company
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
FREEPORT-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
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.
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
Manufectora 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
(Seedorf Acme Corporation)
1338 N. Knollwood Circle
Anaheim, CA 92801
Phone: 714-252-5330
Fax: 714-252-5335
E-mail: info@seedorffwelders.com
Web: 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
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.
1020 Bahls Street
Danville, IL 61832-3389
Phone: 217-446-9500
Fax: 217-446-6855
E-mail: sales@automation-intl.com
Web: www.automation-intl.com

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E-mail: lmoss@automation-intl.com

TERRY PROSSER, Vice President/CFO
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
ACME’S BACK

Rocker Arm Welders  Inverter Welders
Press Type Welders  Bench Welders
Multi-Spot Welders  Seam Welders
Custom Welders  Butt Welders
Miniature Gun Welders  Gun Welders
Reconditioned Welders  Tooling

www.acmewelders.com
Call Toll Free: 866-737-9353
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.
N117 W18200 Fulton Drive
Germantown, WI 53022
Phone: 262-253-2900
Fax: 262-253-2919
Web: www.bannerweld.com

JOHN WALDRON, President
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ROBERT KERR, Vice President, Sales
E-mail: bkerr@bannerweld.com
BRAD MARK, CFO
E-mail: bmark@bannerweld.com

PRODUCTS MANUFACTURED:

CONAN IND. E COM DE PRODUTOS ELETRO-ELETRONICOS LTDA.
Av. Capuava-260
Santo Andre SP 09111-000
BRASIL
Phone: 55-11-4978-0540
Fax: 55-11-4474-4955
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SAULO DOS REIS MIRANDA, General Manager
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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.
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Queretaro, Qro. 76148
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Fax: 011-52-442-220-79-33
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EDUARDO HURTADO, General Manager
E-mail: diseno@consi.com.mx
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
307 Walnut Street
Forest City, IA 50436
Phone: 641-585-5407
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
EWALD INSTRUMENTS CORPORATION/PTS (cont’d)

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
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E-mail: lorraine@gilbertindustrial.com
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JOHN DeGROOTE, Sr. Technician
E-mail: johnd@gilbertindustrial.com

BRANCHES
South Carolina
810 Old Pelzer Road
Piedmont, SC 29673
Phone: 888-225-8721

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

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
Web: www.icesamodicon.com

SEAN C. PATTON, Vice President Sales & Marketing
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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

Saliillo, 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.

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1275 Railroad Street
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Fax: 951-734-0649
E-mail: sales@jandawelders.com
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BOB WHITE, JR., President
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E-mail: sheridreiling@jandawelders.com
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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 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
1820 South Myrtle Avenue
PO Box 5033
Monrovia, CA 91017-7133
Phone:  626-303-5676
Fax:      626-358-8048
E-mail:  info@muc.miyachi.com
Web:     www.muc.miyachi.com

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    E-mail: jim.malloy@muc.miyachi.com
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    E-mail: marty.mewborne@muc.miyachi.com
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    Phone: 626-930-8441
    E-mail: dave.herrin@muc.miyachi.com
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TODD HAGERMAN, Senior Welding Engineer
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MARK RODIGHIERO, Vice President of Systems, Technology and Development
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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
Fax:      44-0-1384-298969
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 45kw 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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   E-mail: ghamer@nsrw.com
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

29
PREVAIL TECHNOLOGY (SHENZHEN) CO., LTD. (cont'd)

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

PRODUCTS MANUFACTURED:
Preval 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, Preval Technology was issued “CCC” Certificate. In 2003, they acquired ISO9001:2000 Quality System Certification.

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Web: www.rolasolsrl.com.ar

FRANCISCO SEMINARA, General Manager
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 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.
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PO Box 920
Bay City, MI 48707-0920
Phone: 989-684-4030
Fax: 989-667-3426
E-mail: rwcsales@rwcinc.com
Web: www.rwcinc.com

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LYLE J. BINIECKI, Vice President
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RONALD W. RICHARDSON, Vice President
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PRODUCTS MANUFACTURED:

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Fax: 708-594-9213
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KENN LACHENBERG, Manager, Engineering
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RON BRZOSKA, Spare Parts 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)
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No. 568 Hua Bo Road
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People’s Republic of China
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E-mail: mt2005@188.com
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JIANG QIUKUI, 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
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Winston, GA 30187-1463
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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
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Fax: 39-051-695-4490
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CRISTINA CASADIO, Export Sales
E-mail: sales@tecna.net
TECNA S.p.A. (cont’d)

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
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Blissfield, MI 49228
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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.

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TENNESSEE RAND, INC. (cont’d)

JOHN MEEK, Engineering Manager
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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.

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800-NOW-SNOW
877-WELD-TIP
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E-mail: welders@tjsnow.com
Web: www.tjsnow.com

T. JAMES SNOW, SR., Founder, Chairman Emeritus
THOMAS J. SNOW, JR., Chairman/CEO
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E-mail: jamesdillard@tjsnow.com

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Phone: 423-308-3172
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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.
THE TAYLOR-WINFIELD CORPORATION
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PRODUCTS MANUFACTURED:
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.

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IAN CALDWELL, QA Manager
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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.

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WAYNE R. JAKUSZ, Vice President, Sales
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XEUJI (WALKER) WANG, Technical Liaison Chinese Operations
Phone: 800-243-3650
E-mail: wang@cadicompany.com
Cadi Company, Inc.

Manufacturing and Distributing Copper for over 30 years

All Shapes and Sizes
RODS - BARS - PLATES
SEAM WELDING BLANKS
Available Alloys:
RWMA CLASS 1 C15000
RWMA CLASS 2 C18150, C18200
RWMA CLASS 3 C18000, C17510
RWMA CLASS 4 C17200

Manufactured Products
Seam Welding Wheels
Electrodes - Adaptors - Holders
Components & Accessories
Custom Parts Made to Print
Large or Small Orders

Refractory Metals
RWMA Class 10,11,12 Copper Tungsten
RWMA Class 13 Tungsten
RWMA Class 14 Molybdenum

Cadi Company, Inc.
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Email: sales@cadicompny.com
URL: www.cadicompny.com

ISO 9001-2000 REGISTERED
CADI COMPANY, INC. (cont'd)

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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.

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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.

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39
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JEFF SCHEMEL, Welding Sales Manager
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RON McCLARNON, Production Control Manager
E-mail: rmclarnon@cmwinc.com

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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NIC VELOFF, General Manager
E-mail: n.veloff@ecka.granules.com

MARKUS HOFMOCKEL, Product Manager
E-mail: m.hofmockel@ecka-granules.com

**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
GENERAL ELECTRODE ENGINEERING CO., INC. (GEECO) (cont’d)

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

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

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Colonia Perisur
Hermosillo, Sonora
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Franklin, NC 28734-3249
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JIM PRITCHARD
E-mail: techsupport@huysindustries.com
HUYS INDUSTRIES LIMITED (cont’d)

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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Jiangsu Province,
215121 CHINA
Phone: 011-86512-62851018
Fax: 011-86512-62851020

LEON TANG, General Manager
E-mail: leon.tang@luvata.com
LUVATA OHIO, INC. (cont’d)

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,
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25240 Saltillo Coahuila
MEXICO
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Fax: 011-52-84-443-08778
E-mail: eportilla@masinsa.com
Web: www.masinsa.com.mx

EDUARDO PORTILLA.BARROS, General Manager
E-mail: eportilla@masinsa.com.mx

PRODUCTS MANUFACTURED:
Manufuctura 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.
OBARA CORP., USA (cont’d)

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MAYTE HERRERA, General Manager
E-mail: mayte.herrera@obara.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.

RESISTANCE WELDING PRODUCTS (1987), LTD.
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AL McGUIGAN, Operations Manager
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LISSA VAN RUN, Controller
E-mail: l.vanrijn@rwpweld.com

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

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CANADA
Phone: 888-847-2569
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**PRODUCTS MANUFACTURED:**

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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.
2147 Kenney Street
Warren, MI 48091-3764
Phone: 586-755-1184
Fax: 586-755-5639
E-mail: jbeach@milcomfg.com
Web: www.welform.com

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E-mail: eslade@milcomfg.com

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JAN KRUCKER, Controller
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BRANCHES
WELFORM PRECISION, LTD.
1 B area, 2930 Nanhuan Road
Binjiang District
Hangzhou, CHINA 310052
Phone: 86-571-5668-1915
Fax: 86-571-5668-1917

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.
125 Factory Road
Addison, IL 60101
Phone: 630-543-6655
Fax: 630-543-6644
E-mail: mkej@zjindustriesinc.com
Web: www.zjindustriesinc.com

MIKE JAJIC, President
    E-mail: mkej@zjindustriesinc.com
NIC JAJIC, Vice President
    E-mail: nicj@zjindustries.com

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
Phone: 864-517-1134
Fax: 864-517-1137
Web: www.bfentron.com

BILL MORAN, Technical & Sales Manager - Americas
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MIKE ZINTAK, Product Manager
Phone: 864-517-1129
Fax: 815-623-8572
E-mail: mike.zintak@bfentron.com

MANUFACTURING FACILITY
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ENGLAND UK
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Fax: 011-44-1384-455551

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SEAN HEFFERNAN, Project Manager
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PRODUCTS MANUFACTURED:
Resistance welding controls: Mid Frequency Inverters, Single phase AC/DC.

CAL MANUFACTURING COMPANY, INC.
5500 East “V” Avenue
PO Box 180
Vicksburg, MI 49097
Phone: 269-649-2942
Fax: 269-649-2946
E-mail: calcables@aol.com
Web: www.calmfginc.com
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.

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AUTOMATION COMPONENTS DIVISION
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DAN E. USZYNSKI, General Manager
E-mail: danuszynski@cntrline.com
JOHN HEATH, Plant Manager
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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.

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Cleveland, OH 44102-5699
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800-621-0014
Fax: 216-631-0440
E-mail: decdarrah@earthlink.net
Web: www.darrahelectric.com

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From “Tips to Turnkey”, you can rely on CenterLine for innovative solutions to all your application needs.
DARRAH ELECTRIC COMPANY (cont’d)

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RAYMOND KROLL, Quality Control Manager
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E-mail: ray_kroll@darrahelectric.com

PRODUCTS MANUFACTURED:
Darrah Electric Company offers a complete line of SCR Contactors for resistance welding in both air and water-cooled designs. Contactors are available in ratings from 5 KVA thru 1500 KVA applications. Solid-state ignitron tube and mechanical contactor replacements are also available. Darrah also offers a wide selection of air and water-cooled power semiconductors 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
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Phone: 800-968-5665
Fax: 269-349-8951
E-mail: dthomason@dimplexthermal.com
Web: www.dimplexthermalsolutions.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
E-mail: sales@electronbeam.com

VALGENE RALOFF, Product Manager
E-mail: sales@electronbeam.com
Closed Loop Cooling Solutions

**DTS Features:**

- Totally self-contained with re-circulating pump
- Easy to read digital temperature controller
- Fused disconnect
- Brazed plate evaporator
- Vertical air discharge
- Built in sub-cooling
- Cleanable air filters
- Non-ferrous wetted components
- Manual bypass

**The NEW MasterChill design for typical welding applications:**

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

**Dimplex Thermal Solutions**

[Website Link]

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.

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GREG VAN DYKE, Sales
E-mail: g.vandyke@entroncontrols.com

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.
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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.

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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ETAL, S.A. DE C.V. (cont’d)

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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 oxhydric 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.

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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.
One Weld Schedule - DOES IT ALL!!

MFDC & HFDC Resistance Welding Controls

High Current Resistance Welding Controls

Minature Part Welding

Matuschek Welding Products, Inc.
42378 Yearago • 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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PRODUCTS MANUFACTURED:

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Grand Rapids, MI 49509-1018
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Fax: 616-243-2091

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

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MARK MAJEWSKI, Director of Body Assembly Sales
E-mail: mmajewski@morrellinc.com
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.

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Terrebonne, Quebec J6X 4J8
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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-
TECHNO-CONTROL CYBERNETIC, INC. (cont’d)

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.

UNITROL ELECTRONICS, INC.
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LEONARD ARMAN, Director of Research & Development
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.
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 standing which minimizes wire breakage due to bending and fatiguing.

Prime Series Transgun Cables

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

Cellar Services a division of Watteredge, Inc.

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

567 Miller Road • Avon Lake, Ohio 44012-2304
Phone: (440) 933-6110 • Fax: (440) 933-8248
web: www.watteredge.com

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JOSEPH LANGHENRY, President
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BEN GONTARZ, Chief Engineer
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E-mail: ben.gontarz@watteredge.com

JOHN JEFFREYS, Purchasing
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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. 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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3566 Highland Drive
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Fax: 616-669-8115
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STEVE BOWERMAN, Engineering Manager
E-mail: sbowerman@apexcontrols.cc
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.
6070 Parkland Blvd.
Mayfield Heights, OH 44124

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

BARBARA MUNDERLOH, Marketing Manager
E-mail: barbara_munderloh@brushwellman.com

BRANCHES:
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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
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Fax: 248-233-5777
Web: www.copperandbrass.com

DAVE VASSAR, Product Manager, Copper Alloys
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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
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ROGELIO GALLEGOS
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SERVICES PROVIDED:

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E-mail: bron_zienkiewicz@fmi.com
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WILLIAM GEISSEL, Plant Manager
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SERVICES PROVIDED:
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 I, II, and III materials are available in Rod, Bar, Tube and Coiled Stock; including our Class III 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
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Fax: 248-281-0991
E-mail: info@fusionwelding.com
Web: www.fusionwelding.com
Freeport-McMoRan Copper & Gold - Bayway Operations in Elizabeth, New Jersey, provides unique products for industry, transportation, and communications. We produce a complete line of ETP copper and oxygen-free copper wire in assorted configurations. Additional products include copper alloys for special applications, such as aerospace, where materials are subject to severe environmental conditions.

RWMA Class 1, 2 and 3 materials are available in Round Rods, Square Bars, Coiled stock plus a broad range of configurations, shapes and profiles. Freeport-McMoRan Bayway Operations manufacturers these products in the following alloys:

- **Class 1** C16200
- **Class 2** C18150 and C18200
- **Class 3** C18000 (Beryllium Free)

All products meet RWMA (Resistance Welder Manufacturers Association) standards.

We are committed to providing superior quality products, produced at competitive costs, to customers around the globe. We seek to prosper by forging partnerships with our customers and suppliers.

**Freeport-McMoRan Copper & Gold**

**BAYWAY OPERATIONS**

48-94 Bayway Avenue
Elizabeth, New Jersey 07202 USA
Phone: 800-522-9929 / 908-351-3200
Fax: 908-351-9475
Customer Service Phone: 908-558-4319
Sales & Marketing Phone: 908-552-4318
Email: baywaysales@fmi.com

**Visit our NEW WEB SITE:**
www.fcx.com/metals/bayway.htm
FUSION WELDING SOLUTIONS (cont’d)

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E-mail: ddibiase@fusionwelding.com
Phone: 248-953-0513

BRANCHES
ALABAMA OFFICE
8331 Highway Eleven
Trussville, AL  35173

SERVICES PROVIDED:
Fusion Welding Solutions is a full service engineering service engineering company that specializes in engineering and consulting services for the welding industry. Their staff and laboratories offer skilled welding and controls engineers with a knowledge base that covers all aspects of the welding processes, certifications, and compliance with customer standards. Fusion Welding Solutions has extensive experience in the design, review, and set-up of resistance, laser, and arc welding processes. Their staff is available on a short or long-term basis, and is always on-call for emergency situations. Fusion Welding Solutions is flexible to work with the needs and requirements of each customer.

Quality and cost effective services include; Weld Engineering, Controls Engineering, Robotics, Welder Training and Certification, WPS and PQR Development, Metallurgy Services, Simulation Modeling and Analysis, Design and Set-up on Resistance, Laser, and Arc Welding Processes.

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175 Toryork Drive, Unit #34
Weston, Ontario M9L 1X9
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Fax: 416-747-7171
E-mail: weldingstrategies@huysindustries.com
Web: www.huysweld.com

KEVIN CHAN, Technical Sales Engineer
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Phone: 800-461-9936
SERVICES PROVIDED:

Exclusive distributor in the Americas of 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 Braeuer 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
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Phone: 956-982-1350
Fax: 956-982-1397
E-mail: iisco93@yahoo.com

MOISES LARA, Sales Manager
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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
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E-mail: info@kvawelding.com
Web: www.kvawelding.com

CHRIS BREIDENBAUGH, President
E-mail: chris@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
Web: www.lakewelding.com

DENNIS KING, Resistance Welding Specialist
E-mail: dking@lakewelding.com
TOM LESNESKI, Sales Manager
E-mail: tlesneski@lakewelding.com

SERVICES PROVIDED:
Lake Welding Supply has been serving the welding industry since 1953.
Their unwavering commitment to customer satisfaction and innovative
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MEXICO 76120
Phone: 011-52-442-2-1711-71
Fax: 011-52-442-182-2546
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E-mail: abel.garcia@macosa.org
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SERVICES PROVIDED:
Manufacturas En Cobre Aleado S.A. de C.V. manufacture and import of all
kinds of resistance welding consumables and foreign raw materials in special
copper alloys.

NATIONAL BRONZE & METALS, INC.
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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. They 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 their warehouse for prompt worldwide delivery.

NGK METALS CORPORATION
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Sweetwater, TN 37874
Phone: 586-883-1126
800-523-8268
Fax: 977-645-2328
Web: www.ngkmets.com

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

SERVICES PROVIDED:
NGK Metals Corporation is a manufacturer of high-performance Class III and Class IV Beryllium Copper Alloys for the RWMA community. NGK Metals offers a wide array of products, including tube, rod, plate, strip, and casting alloys. In addition, NGK Metals offers machining services and a broad line of Safety (non-sparking) Tools.

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SERVICES PROVIDED:
Ningbo Powerway Alloy Materials 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.
Division of IBC Advanced Alloys
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317-738-2685
E-mail: bremm@ibcadvancealloys.com
Web: www.nonferrousproducts.com

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E-mail: bremm@ibcadvancealloys.com
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Distribution of plate, blocks, bar, rings and specialty copper alloy for resistance welding applications and plastic mold tooling.

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Tel: 317-738-2558 / 800-423-5612
Fax: 317-738-2685
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RAJEEV JAIN, Vice President, Sales  
E-mail: rjain@bcaadvancealloys.com

STEVE McQUEEN, Distribution Manager  
E-mail: smcqueen@bcaadvancedalloys.com

SERVICES PROVIDED:
Nonferrous Products, Inc. is a manufacturer (forge hammer, press, ring rolling) 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. They have been in continuous operation since 1946.

QUALITY BRASS FOUNDRY
1251 Judd Avenue, SW  
Grand Rapids, MI  49509-1018  
Phone:  616-243-1953  
Fax:  616-243-2091  
Web:  www.qualitybrass.com  
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MIKE CRAMER, Foundry Manager  
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SERVICES PROVIDED:
Quality Brass is a non-ferrous foundry specializing in sand mold castings. They service customers throughout the United States, and represent a diverse customer base, ranging from electrical equipment manufacturers, machine shops, marine hardware, plastic injection molders, plating rack manufactures, to commercial & residential architectural detail companies.

QUALITY HONEYCOMB, INC.
624 107th Street  
Arlington, TX  76011  
Phone:  817-640-1190  
Fax:  817-640-1192  
E-mail: cnoliver@qualityhoneycomb.com  
Web:  www.honeycombone.com

CHUCK OLIVER,  
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SERVICES PROVIDED:
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RESISTANCE WELDING MACHINE & ACCESSORY
Northern Location  
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St. Joseph, MI  49085  
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800-915-9353  
Fax:  269-428-4796  
E-mail: sales@resweld.com  
Web:  www.resweld.com
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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, they are not just another spot welding supply company like so many others, they are resistance welding specialists. Their sales engineers and customer service representatives are the most knowledgeable in our industry, and can offer assistance in choosing the proper spot welding supplies and machinery for the job at the best value. They keep large inventories of the most common spot welding consumables, along with copper bar stock and special metals. If the right spot weld item is not available from their thousands of standard products, they also offer the design and manufacture of special electrodes, tooling, and fixtures to create a custom solution to meet your needs.

RoMAN ENGINEERING SERVICES, INC.
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RoMan Engineering Services is a full service engineering company specializing in all forms of high production welding processes. Over 15 degreed engineers in the field as consultants and 22,000 square foot of laboratory space dedicated to weld development, prototype welding and research.

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SERVICES PROVIDED:
Sensus is an OEM for Electric Meters (Utility business). They provide smart metering technologies and conservation solutions for automatic meter reading, (AMR), advanced metering infrastructure (AMI), smart grid applications, distribution automation, and communication that enable electric, gas, and water utilities to measure, manage, and control distributed resources. We also support home area networks that help households practice intelligent resource consumption. With nearly 4M endpoints deployed, utilities and consumers know that the smartest solutions start with Sensus.

SHERBROOKE METALS CORPORATION
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E-mail: tungsten@apk.net
Web: 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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Pelham, AL 35124-1846
Phone: 205-664-9440
   800-289-2728
Fax: 205-664-1365
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AL RIHA, President
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BOB WALTA, Sales
   E-mail: bobwalta@southerncopper.com
FRED BURTON, 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. They can either sell the raw material, or manufacture parts to a customer’s specification. Their commitment is always to their customers. They stock a large variety of items, and ship most items the same day.
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Resistance Welding Supplies:
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  - Copper Alloy C 10100 (O.F.H. C.)
    - Copper Tungsten
  - R.W.M.A. Class 11 & 12 (Copper Tungsten)
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Fax: 972-475-5024
E-mail: info@spotweldingconsultants.com
Web: www.spotweldingconsultants.com

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Email: david@spotweldingconsultants.com

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

TOWER AUTOMOTIVE, LLC
17672 North Laurel Park Drive
Suite 400E
Livonia, MI 48152
Phone: 248-675-6000
Fax: 248-675-6800
E-mail: info@towerautomotive.com
Web: www.towerautomotive.com

DANIEL GALIHER, Corporate Welding Engineer
E-mail: galiher.daniel@towerautomotive.com
TOWER AUTOMOTIVE, LLC (cont’d)

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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VATCHE YEREVANIAN, Owner
E-mail: vatche@weldms.com
DENNIS SHEARS, Senior Welding Engineer
E-mail: dshears99@gmail.com

SERVICES PROVIDED:
Weld Management Solutions, Inc., (WeldMS) specializes in the real time monitoring, analysis, documentation and management of flash butt welds. WeldMS can retrofit its system to all flash butt welders, and it can also upgrade older mechanical welding controls to a computerized welding control.
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RWMA Class 14 Molybdenum

Cadi Company, Inc.
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