

WCISA® Member Directory & Product Listing 2023 Edition



WCISA®

*Wire and Cable Industry
Suppliers Association®*

**North American-based suppliers of
machinery, materials and accessories
for making all types of wire and cable.**



WCISA® is a nonprofit trade association.
www.wcisaonline.org



WCISA®

Wire and Cable Industry
Suppliers Association®

WCISA® Members are North American-based suppliers of machinery, materials and accessories for making all types of wire and cable.

www.wcisaonline.org • info@wcisaonline.org

1741 Akron Peninsula Rd. • Akron, OH 44313 USA • Tel 330 864-2122 • Fax 330 864-5298

WCISA's Mission:

WCISA's mission is to promote its members' products and services by providing its members with promotion, representation, networking/social opportunities and services at domestic and international wire and cable trade shows and conferences.

WCISA Officers*

- **Drew Richards, CEO, RichardsApex, Inc., WCISA President**
- **Rahul Sachdev, Executive Vice President, Wire & Plastic Machinery Corp., WCISA Immediate Past President**
- **Mike McNulty, VP & Editor, Wire & Cable Technology International, WCISA Executive Director**

WCISA Board of Directors*

- **David Braun, Wire & Cable Industry Manager, Teknor Apex Co.**
- **Mark Canrobert, Vice President, Industrial Tapes, Chase Corporation**
- **Timothy Copp, Vice President Business Development, REELEX Packaging Solutions, Inc.;**
- **Rob Fulop, President, Wire Lab Company**
- **Brian Holden, National Accounts Manager, Carris Reels**
- **Paul Gemelli, Executive VP, Gem Gravure Co. Inc.**
- **Dave Kiddoo, CEO/Director, IWCS, Inc.**
- **Gord Murray, Director, QED Wire Lines Inc.**
- **John Zachow, Vice President – Wire & Cable Systems, Davis-Standard Corp.**

***WCISA Officers also serve on the WCISA Board of Directors**

Membership: How to Become a WCISA Member Company:

WCISA is a nonprofit, corporate membership organization of North American suppliers of machinery, materials and accessories used to make all types of wire and cable. Members are based in or have an established subsidiary in North America. Prospective members should send an email to info@wcisaonline.org to apply for membership: send Company Name, Address, Phone, fax, Key Contact Name, E-mail, Website and a 50-Word Description of your products and Services. The WCISA Board votes on all membership applications. Annual dues are US\$300 per member company.

WCISA Partners

In pursuit of its mission, WCISA works with leading industry associations and organizations including the following:

- **IWCS Cable & Connectivity Industry Forum, www.iwcs.org.**
- **The International Wire & Machinery Association (IWMA), www.iwma.org.**
- **Messe Düsseldorf North America, www.mdna.com**
- **The Wire Association International (WAI), www.wirenet.org.**
- **Wire & Cable Manufacturers Alliance, Inc. (WCMA, Inc.)**

Proposals for new and expanded relationships are welcome.

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WCISA® Member Benefits

- 1. COMPANY AND PRODUCT PROMOTION:** WCISA Member Directory and Product Guide: published annually and distributed worldwide at trade shows and conferences in North America, Europe and Asia. WCISA web site, www.wcisaonline.org, containing member company and product information and hotlinks to member's e-mails and web sites. WCISA press releases published in wire and cable media outlets.
- 2. REPRESENTATION AT TRADE SHOWS AND CONFERENCES:** WCISA exhibit booths. Literature distribution at shows. Pavilion sponsorships. Show services. Hospitality Events.
- 3. NETWORKING AND SOCIAL OUTING OPPORTUNITIES:** At exhibitions and conferences.
- 4. SCHOLARSHIPS FOR WCISA MEMBER COMPANIES:** Employees, Interns, High School Graduates, Partner Associations, Special Circumstances.
- 5. PARTNERSHIPS & DIALOGS WITH INDUSTRY ASSOCIATIONS AND EVENT ORGANIZERS:** IWCS, IWMA, MESSE DÜSSELDORF (GERMANY & NORTH AMERICA), WAI.
- 6. A UNIFIED VOICE & SUPPORT OF NORTH AMERICAN SUPPLIERS**

**SUPPORT THE INDUSTRY, YOUR COMPANY AND
YOUR FELLOW NORTH AMERICAN SUPPLIERS
IN THE WORLDWIDE MARKETPLACE**

Accel International

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Meriden, CT 06450 USA

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Website: www.accelinternational.com

Contact: Kyle Senk: Senior Vice President
of Sales, ksenk@accelinternational.com,
Mobile: 860.966.3488

Accel International is a manufacturer of high-performance conductors, including silver-plated, nickel-plated and tin-plated copper and copper alloys for the wire and cable market. Accel operates vertically integrated factories with state-of-the-art technology in Connecticut, Indiana and Florida with approximately 650,000 square feet of manufacturing space and plans for future expansion. Serving the aerospace, medical, telecommunications and industrial markets have forged Accel's unwavering commitment to perfect quality of products. Accel produces the best quality products with investment in new technology and its associates. Practicing "Theory of Constraints" as the operational backbone has allowed Accel to provide the marketplace with fast and dependable delivery and better than 99% on-time delivered goods.

Ace Metal

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Fax: 610-623-2268

E-mail: sales@acemetalinc.comWebsite: www.acemetalinc.com

Key contact: Richard Medoff



Ace Metal is a manufacturer of tire cord spools, metal spools, and tubular wire carriers. Ace Metal has built an excellent reputation manufacturing custom and standard wire drawing spools for the ferrous

and nonferrous wire industries. Spools are designed for uniform quality and precision, and they are manufactured from 16, 18, and 20 gauge prime steel with spot-welded or seamwelded barrels, according to customer specifications. Finished spools are tested on a specially designed hydraulic spool tester. Spools can be used for batch annealing, and they are available in plain steel or with a baked enamel paint finish. Ace Metal tubular wire carriers are precision-made, designed at economical prices, and guaranteed for quality and strength.

AGC Chemicals Americas, Inc.

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AGC Chemicals Americas, a leading global supplier of high-quality fluoropolymer resins, compounds, fluoroelastomers and specialty chemicals and materials. AGC Chemicals America maintains manufacturing operations in Thorndale, PA, USA, and warehouses located throughout North America.

AIM, Inc.

Headquarters:

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Midwest: 502 S. Vista Ave,

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AIM Inc. manufactures 2D and 3D single and dual bending head machines complete wire CNC bending systems. All systems can expand to accommodate accessory machine modules such as chamfering, butt welding,

end forming, drilling, marking, threading, and press operations. Many of these modules are available in-line, allowing for turn-key end-product manufacturing.

AITMAC, Inc. (Advanced Industrial Technologies and Machines, Incorporated)

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AITMAC, INC

AITMAC offers efficient and productive manufacturing technologies from world leader manufacturers, including A APPIANI, a world leader manufacturer since 1962 of standard and custom build steel reels for shipping and processing according to DIN specifications or to customer requirements; COMETO wire straightening, guiding and feeding equipment; TRAMEV portable tooling for shearing, cutting, straightening and bending of metal wire, rod, strip, cable, bar, metal banding and also the punching of metal plate and FELISARI sheath cutting and stripping equipment for mineral insulated cables. Aitmac Inc., is also the official supplier of Lesmo and Eurodraw Energy machine spare parts and service requirements.

Alphagary

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alphagary

AlphaGary designs and manufactures a variety of compounds for a wide range of wire

and cable applications. Products include FR-PVC (GW series), plenum (SMOKEGUARD), and LSHF (MEGOLON) compounds for both copper and fiber applications as well as TPE compounds (GARAFLEX), PU blends (GARATHANE) and GCPE series for unique combinations of properties suitable for a variety of environments.

Amacoil, Inc.

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Amacoil is the exclusive North American distributor of Uhing rolling ring linear traverse assemblies for wire and cable winding. Amacoil offers full service on Uhing traverse drives including added-value manufacturing, repairs, parts and ongoing technical support. Uhing rolling ring drives do not require programming or complex controls. Travel direction and linear pitch are adjustable without changing gears or reversing the motor.

Amaral Automation Associates

Amaral Automation Associates

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Fax: 401-738-9800



Web Site: www.amaralautomation.com

E-Mail: rick@amaralautomation.com

Amaral Automation provides process controls and equipment to the wire, cable and plastics industries representing various companies including ADG Solutions, Angle Systems, B & H Tools, Benshaw, Clinton, Davis-Standard, Eurotherm, Gneuss, MAAG, Machine and Controls Inc, Paletti, RS Pow-

dertech, Staco Energy Products, Subec, Tape-Formers, Taymer, Techtop, Total Protection Solutions, WTM, and Zumbach.

American Kuhne, a brand of Graham Engineering Corporation

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hamengineering.com



AK provides complete wire and cable system solutions with a wide range of capabilities. AKcess control systems. AK specializes in the design and manufacture of extruders which can be customized to meet individual processor's needs. 3/4 to 12-inch air-cooled or water-cooled extruders, Co-extruders for striping and multi-layer and H-frame base for portability and stability.

Amexstra, Inc.

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Email: amexstra@gmail.com

Contact: Jason Rodd, President

Am Ex Stra

Amexstra focuses on importing, manufactur-
ing and refurbishing components for the wire
industry, including ceramic parts for all types
of wire production processes.

Arkema Inc.

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Contact: David Kreh, Global Market Manager
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www.kynar.com www.rilsan.com



For over 50 years, Kynar® polyvinylidene

fluoride (PVDF) resin, a specialty thermo-
plastic fluoropolymer, has been used in
applications that require high strength and
purity. Known for its high purity, Kynar® PVDF
resins also provide chemical resistance to
acids and bases, abrasion resistance, flame
retardancy, mechanical strength, impact
resistance, thermal stability and ease of
processing - making it an ideal choice for
wire and cable construction.

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E-mail: awm@awmachinery.com

Website: www.awmachinery.com

Contact: Art Watson or Ed Gener



AW MACHINERY

AW Machinery LLC, purchased the engineer-
ing information (entire library of project files
and designs) and inventory formerly owned
by Viteck Inc. in 2003 and has since been
providing a complete line of equipment for
both plastic insulating, and, continuous cure
CV insulation of wires and cables from Fiber
Optic through Power Cables. Short deliveries
for new components, wire line systems, com-
plete technical service and spare parts for
new and existing equipment presently in the
field, is a specialty of AW Machinery.

Aztech Lubricants LLC

29047 State Highway 59

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AZTECH
LUBRICANTS

Aztech Lubricants is new style of lubricant

company for the wire industry. We will formulate and produce products to meet the customer's needs, many custom blends. Our EZDraw, EZCoat, EZClean and AZWipe products include dry drawing powders (including calcium, sodium, potassium and blends); vanishing oils; weaving lubricants; precoats; protective coating products for galvanized wire; and cleaners.

Balloyet Die Corporation

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Website: www.balloyetusa.com

Contact: Bill Couse, VP

Balloyet Die Corporation is a supplier of Natural, Synthetic-Single Crystal & Polycrystalline Diamond Dies, Extrusion Tips & Dies, Die refinishing & Inspection equipment and recutting services.



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Bartell is committed in its aim of providing customers the highest possible quality service in the wire and cable industry. The Ceeco Bartell team contains many recognizable names and faces in the cable industry from around the world. Ceeco Bartell has brought this wealth of experience together in order to continue to give customers deservedly the best product support team in the world.

- High speed side loading roll form strand, up to 300 mm²
- Modularized Roll Form unit, producing 240 mm² compact aluminum at 200 m/min
- High speed strip interlock armouring lines, with 300 mm wide coil width

- High speed orbistrand rigid strander machine for screening applications
- Backtwist high speed data cable twinning, with and without backtwist
- High performance OPGW stranders
- Full range of tubular stranders
- Umbilical and submarine cable lines
- Custom designed equipment for flexible pipe industry

Baum's Castorine Co., Inc.

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Contact: Tom Whitcombe, VP of Sales or Mike O'Herien, Account Executive

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Website: www.baumscastorine.com



Baum's Castorine Co., Inc. has been formulating industrial lubricants since 1879 in Rome, NY. In addition to the wire drawing industry, Baum's also serves many metal-working industries as well as agricultural and construction industries. Baum's offers a full line of products including oils, coolants, soluble oils, greases, and lubricating oils. Baum's is also a custom blender for the US military and the International firefighting industry.

B&H Tool Company

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B&H Tool Company is a provider of innovative tooling solutions that improve the quality of extruded products and reduce scrap and set-up. For the international medical device industry, where B&H Tool is a leading supplier, the BH25A MicroCrosshead with

Spiral Deflector is most newsworthy. This new tooling development is the industry's lowest volume microcrosshead, delivering breakthrough microextrusion performance for applications including microbore tubing, fiber optics, and insulated fine wire.

Blachford Corporation

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Blachford

Blachford has been supplying the Global Wire Drawing Industry and many of the world's largest wire drawing companies since the 1950's with cost effective, meticulously researched, and innovative wire drawing lubricant programs that are tailored to the exacting technical specifications of our customers' processes. Our in-field engineers and experienced R&D team work closely with customers to fully understand each application's technical requirements. Then, working together; our Customers, In-field Engineers and Blachford's R&D team design products and programs that meet our customer's goals. At Blachford we are dedicated in our commitment to consistent and reliable product quality. Dr. John Blachford, our owner, is well known throughout the chemical industry for his promotion of Responsible Care® and the necessity for his companies to act as responsible corporate citizens. Our team is committed to working with our customers to ensure optimum product performance and to use our products in a responsible way.

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Cable Components Group (CCG), founded in 1998, designs, engineers and manufactures extruded products for wire and cable, fiber optic cables and industrial non-wovens. CCG's 6-LAN™ crosswebs are foamed and include patented designs for Category 6, 6e and 6A LAN cables. CCG's FluoroFoam® is a patented chemical foaming agent of fluorinated ethylene propylene (FEP) or perfluoro methyl alkoxy (MFA) for use in insulations, tapes and 6-LAN crosswebs. Foamed fluorine-based products are particularly suited for the evolving Power over Ethernet (POE) or Power over LAN standards. These standards require materials with enhanced thermal stability, and foamed FEP or MFA insulation and jacketing offer an added safety margin for POE applications. For the POE standard from 0.5 AMPs to 1.0 AMP for Limited Power (LP), CCG offers these jacketing materials, as well as FluoroFoam insulation and crosswebs. 200°C-rated FluoroFoam FEP or MFA Jacket with FluoroFoam insulation and crossweb for 0.8, 0.9, and 1.0 AMP POE;

150°C-rated PVDF Limited Combustible Fluoro-Alloy Jacket with FluoroFoam insulation and crossweb for 0.6 and 0.7 AMP POE; 90°C-rated Low Smoke PVC Jacket with FluoroFoam insulation and crossweb for 0.5 AMP POE. All of these new materials are compounded by CCG in an effort to vertically integrate materials to service our customers with innovative, higher temperature-rated, fire retardant and foamable materials. CCG will use this compounding capability to service our in-house extrusion needs for crosswebs, tapes, tubes and monofilaments, as well as offer for sale these new foamable, as well as fire retardant compounds that are especially designed for copper wire and fiber optic cabling.

Calmec Precision Limited

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Established in 1979, CALMEC is a Canadian machinery manufacturer providing tailored Engineered Armouring Solutions. Calmec specializes in process driven equipment for the continuous roll forming of metallic strip, and the application of metallic and non-metallic tapes, to produce flexible conduit and pipes over electrical cables, hoses, and as components of deep sea umbilical's.

Carris Reels, Inc.

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Carris Reels manufactures and distributes packaging solutions for the wire and cable industry including plywood reels, nailed wood reels, hardboard reels, plastic reels and accessories, hybrid reels, wood/metal reels, stamped metal reels and REELEX pay-out tubes and accessories. Additional services offered are recycling/repair services and logistics in New England and Texas. It's vast manufacturing network consists of (11) locations across the U.S., Canada and Mexico, in addition to (8) warehouse/assembly locations. Carris Reels is 100% employee owned. J. Hamelin Industries and Lone Star Reel are part of the Carris Community of Companies.

CEMANCO LC

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 Contact: Rainer Lashofer, President
 Ceramic eyelets, rods, tubes and customized shapes; pulleys in various materials like ceramic, CeramP, aluminum or steel with hard coatings or ceramic inserts; wire straighteners and guides adjustable and fixed with multiple choices of rollers, coatings and designs; hydraulic cutters; linear traverses; drawing capstans, rings and cones.



Chase Corporation

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Subsidiary companies:



- NEPTCO
- Stewart Superabsorbents

Adam Chase, President and
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Vice President—Industrial Tapes
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Chase Corporation and its subsidiary NEPTCO are manufacturers of a variety of laminated foils and coated fabric tapes for use in the manufacture of electronic, CATV, instrumentation, control, telecommunications, aerospace, military, industrial and distribution power cables. Specific products include EMI/RFI shielding tapes, thermal, flame and moisture barrier tapes, semi-conducting and water-blocking tapes, identification tapes and a wide range of bedding and binder tapes. For power cables, Chase Corporation manufactures Chase BIH2Ock® conductive moisture-blocking strand fill compound. Stewart Superabsorbents (SSA) offers superabsorbent powders, liquids and hot melt adhesives as well as warehousing, distribution and tolling services.

Chemetall US, Inc.

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Chemetall North America operates within the 'Surface Treatment' division of BASF, a global leader in specialty chemical technologies. Chemetall US, Inc., manufactures and sells a wide range of process chemicals for the ferrous wire industry, including zinc phosphates (and associated additives), reactive stearate coatings, polymer coatings, pre-coats (salt carriers), cleaners (alkaline & acidic) liquid lubricants and corrosion protection products, as well as providing extensive technical support and training options for the wire industry.

Colorant Chromatics/Avient

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Colorant Chromatics is the world's leading specialist in the enhancement of high performance polymers, particularly Fluoropolymers. Colorant Chromatics was founded in Sweden in 1979 and started production of Fluoropolymer concentrates in the owner's barn. Since then, it has opened manufacturing plants in Aland, Finland (1981), in

Bethel, CT, USA (1983) and Shanghai, China (2003) and a distribution center in Limburg, Germany (1985). In 2013, the Headquarters were relocated to Eindhoven, The Netherlands. Colorant Chromatics is a division of Avient Corporation, a premier provider of specialized polymer material, services and solutions.

Commission Brokers Inc.

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Domestic and international broker for used, rebuilt, reconditioned, and As-Is machinery for the nonferrous wire and cable, harness, wire assembly, braiding, and hose industries. Specific equipment includes braiders, bunchers, cablers, drawers, extruders, pay-offs, stranders, take-ups, and twisters. Additional services include plant layout, installation, relocation, appraisal and liquidation.

Condat Corporation

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USA Division of Condat SA, worldwide supplier of specialty lubricants with a full range of products for wire drawing and cold heading.

Conneaut Industries, Inc.

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 National Sales Manager



Conneaut Industries, West Greenwich, Rhode Island, is a leading supplier of industrial and specialty yarns used in an extensive range of end-use wire and cable markets including automotive, aerospace, power, telecommunication and fiber optics. Conneaut also supplies various specialty fibers into the composite markets. Established in 1930, Conneaut is an industry leader in yarn converting with unique capabilities for precision braider packages, twisting, plying, cabling and winding. The company has a clear focus on customer satisfaction and producing zero-defect yarn products. Conneaut is committed to building long-term partnerships with its customers and suppliers.

Davis-Standard, LLC

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 Contact: John Zachow,
 Vice President – Wire & Cable Systems



Manufacturer of complete wire and cable extrusion systems for the communication, power, construction/building, telephone, automobile, high temperature, plug optical fiber, and specialty wire market segments. All extrusion systems are available with Clipper take ups, payoffs, spoolers, customized feed screws, and patented micro-processor

based control systems incorporating closed loop control and line documentation.

Die Quip Corp.

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Bethel Park, PA 15102, USA

Delegate: Tom Maxwell



Die Quip is the leading manufacturer of die finishing equipment for tool and die shops around the world. Every machine has our trademark durability and accuracy features, which ensures long production life and easy access to spare parts. Our Die Saver line efficiently cuts time and guesswork out of die production. This group of machines have manual, semi-automatic and fully automatic cycles to cut, size and polish wire dies, bar dies, and tube dies. Each machine features a rigid base design with a powerful grinding spindle, angle setting gages and a zero stop to produce fast, accurate die geometry. The Die Flex line provides tremendous flexibility and accuracy to polish the angle and size the bearing with fully automatic or semi-automatic cycles. These machines have a search feature that finds the angle automatically before starting the cycle, which allows different die sizes to be run in the same group. Removable magazines allow dies to move from polishing cycles to sizing cycles without reloading. Full training packages, seminars, consultations and handbooks are available for easy operator training. We also provide specially formulated consumable supplies, die measuring systems and full lines of specialty cutters.

EY Technologies

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Email: info@eytechnologies.com

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Our products and technologies help make braided wire harnesses the preferred choice for Industries. A family owned Company established in Fall River, Massachusetts with Corporate Headquarters in Pine Bluff, Arkansas, USA. Our Core business strives to be the world's leading innovative and technical producer of quality custom-designed yarns essential to production in the braiding, knitting, weaving, multi-axial laminating and other process industries. We produce linear composite materials based on man-made fiber substrates, usually treated with polymeric systems to enhance functional properties. Extrusion coated yarns with PVC, HP, TPE, PVDF etc. compound with proprietary additive. FIBERS- Para-Aramid KEVLAR®, Meta-Aramid Nomex®, Basalt, Carbon, Fiberglass, Nylon, PET Polyester, Polyethylene, Stainless etc. RESINS – Nylon, Polyester, PEI, Polyethylene, Polypropylene, PVC, PVDF etc. "Proudly Made in the USA with a Global Distribution Network to serve you" WE DON'T MAKE YARNS, WE MAKE THEM BETTER!™ Engineered yarns. Smart solutions™.

Fabritex, Inc.

1755 Zion CME Church RD
Hartwell, GA 30643 USA
Phone: 706-376-6584 x 240
Fax: 706-376-1434

Contacts: Lee Adams, President,
Brook McClincy, Sales
Web Site: www.fabritex.com
E-Mail: sales@fabritex.com



FACTS, Inc.

2737 Front Street
Cuyahoga Falls, OH 44221 USA
Tel: 330-928-2332
Fax: 330-928-3018

Contact: Scott Hall, General Manager
sales@facts-inc.com
www.facts-inc.com



Fabritex makes to order custom batch annealing stem packs and frames for every major North American O.E.M.'s high speed continuous down coiler line. Precision Made tubular wire and rod carriers, and other high temperature solutions. We are scheduled to be ISO9001:2000 certified this year as we deal with the unique and demanding requirements of each new customer's application.

FACTS has extensive experience controlling a wide range of wire and cable lines. We supply:

- Fully Integrated Line Control
- Heater Power Enclosure Assemblies
- Drive Systems
- Information and Reporting Systems
- New Extrusion Lines & Equipment

All systems are backed with 24/7 technical support.



WCISA® Member Benefits



1. **COMPANY AND PRODUCT PROMOTION:** WCISA Member Directory and Product Guide published annually and distributed worldwide at trade shows and conferences in North America, Europe and Asia. WCISA web site, www.wcisaonline.org, containing member company and product information and hotlinks to member's e-mails and web sites. WCISA press releases published in wire and cable media outlets.
2. **REPRESENTATION AT TRADE SHOWS AND CONFERENCES:** WCISA exhibit booths, literature distribution of shows, Pavilion sponsorships, Show services, Hospitality events.
3. **NETWORKING AND SOCIAL OUTING OPPORTUNITIES:** At exhibitions and conferences.
4. **SCHOLARSHIPS FOR WCISA MEMBER COMPANIES:** Employees, Interns, High School Graduates, Special Circumstances.
5. **PARTNERSHIPS & DIALOGS WITH INDUSTRY ASSOCIATIONS AND EVENT ORGANIZERS:** IWCS, IMMA, WESS, DOSSLEDOERF GERMANY & NORTH AMERICA, VAA.
6. **A UNITED VOICE & SUPPORT OF NORTH AMERICAN SUPPLIERS**

**SUPPORT THE INDUSTRY, YOUR COMPANY AND
YOUR FELLOW NORTH AMERICAN SUPPLIERS
IN THE WORLDWIDE MARKETPLACE**

www.wcisaonline.org • info@wcisaonline.org

WCISA® member companies are North American-based suppliers of machinery, materials and accessories for making all types of wire and cable. Annual Dues: \$300/company. Established in 1996, WCISA is a nonprofit trade association.



WCISA® Scholarship Program



WCISA offers three types of scholarships to its member companies:

1. **WCISA Employee & Intern Scholarship** for people currently working at a WCISA member company. One or more awards per year. Applicants should have a need and desire to enroll in or be enrolled in an in-person or online course or degree program that is related to their job description at the WCISA member company. Applications are due from employees, interns or colleagues at WCISA member companies by July 31 of each year.
2. **WCISA High School Graduate Scholarship** for high school graduates with a parent or grandparent working at a WCISA member company. One or more awards per year. Applicants must be a high school graduate enrolled in a college or university in the fall of the application year. Any planned field of study is acceptable. Applications are due from students or parents/grandparents at WCISA member companies by July 31 of each year.
3. **WCISA Special Scholarship** for extraordinary or special circumstances, directly or via industry partners (memorials, hardships, research projects, endowments, etc.). These are awarded on a case-by-case basis. Applications or requests may be submitted at any time of the year by an employee of any WCISA member company or via industry partners.

Materials to Submit: Applicants should submit a written statement to info@wcisaonline.org, identifying their connection to a WCISA member company, the desired scholarship and the reasons to be selected.

www.wcisaonline.org • info@wcisaonline.org

WCISA® member companies are North American-based suppliers of machinery, materials and accessories for making all types of wire and cable. Annual Dues: \$300/company. Established in 1996, WCISA is a nonprofit trade association.

**Fiber Optic Center, Inc. (FOC) /
Technical Horsepower
Consulting, LLC (THC)**

23 Centre Street
New Bedford, MA 02740, USA
<http://focenter.com>,
<http://technicalhorsepowerconsulting.com>
Direct: 508-717-8393 or 508-992-6464 with
ext. 8393

Kathleen Skelton, Director of Strategic
Marketing, kskelton@focenter.com



Fiber Optic Center, Inc., (FOC), is an international leading distributor specializing in helping their customers make the best cable assemblies in the world. FOC partners with Technical Horsepower Consulting, LLC. (THC), an international leader in consultation and technical training in the areas of optical cable, optical sensors, and cable/connector interface.

Fine International Corp.

Main Office:
106 Apple Street, Suite 116
Tinton Falls, New Jersey 07724 USA
Telephone: +1-732-933-0040
Fax: +1-732-933-4005
Contact: Bruce Ceres
Web site: www.fineinternational.net
Email: finesales@gmail.com



Fine International Corp. is specialized machinery supplier to wire and cable manufacturers. The company produces extrusion lines from general purpose electronic wire production, power cable product manufacture and general purpose jacketing lines. Fine specializes in the supply of primary extrusion lines based on proprietary physical foam technology capable of producing foamed insulation products used for CATV coaxial cable, LAN category cable, minicoax cable and RF microwave cable. All extrusion line components from wire handling (payoffs, takeups, dancers, accumulators

and capstans), water cooling systems and ancillary components such as straighteners and preheaters are offered. Rotational equipment for tape wrapping and wire braiding and serving is also available. Fine customizes all of our machinery to fit our customer's requirements rather than offer standard items that must be adopted by the manufacturer. The company also provides some raw material sourcing opportunities including shielding tapes, separating tapes, semifinished cable and other related materials.

Fort Wayne Wire Die, Inc.

2424 American Way
Fort Wayne, IN 46809-3098 USA
Phone: 260-747-1681
Fax: 260-747-4269
E-mail: sales@fwwd.com
Website: www.fwwd.com
Contact: Brad Scherer



Fort Wayne Wire Die's product line includes Single Crystal Natural Diamond Dies (SCND); Single Crystal Synthetic Diamond Dies (SCSD), Poly-Di® Polycrystalline Diamond Dies (PCD), Tungsten Carbide Dies; Dual-Draw™ Wire Dies; Multiwire Elongation Sets of Dies; Poly-Strand™ Stranding, Bunching and Compacting Dies; Extrusion Tips and Dies; Di-Pro™ Diamond Powder/Compound; Ultrahard Wear Parts; Shaving Dies; Calibrating and Enameling Dies; Shaped Wire Drawing Dies; and Tubing Dies and Mandrels. Also offered are Die Reconditioning, Inspection and Measurement Equipment; Die Recutting Services; Seminars; and Workshops.

Frigeo USA, Inc.

A MFL Group Company

67 Beaver Ave. Corbit Bld. Ste 12

Annandale, NJ 08801 USA

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Cell: 908-797-3646

Email: t.derosa@mariofrigerio.com

Web Site: www.mflgroup.com

Our commitment at Frigeo USA, Inc. is to provide our North American Wire and Cable partners high quality products and technical solutions that are innovative and tailored specifically to the market. As a complete supplier, Frigeo USA, Inc. takes great pride in providing machines, training, product technology, and timely service and support to insure that your machine performs above expectation. Our products include Drawing Lines, Stranding and Closing Lines, and Insulation and Sheathing Lines. We offer total project management and equipment requirements; we integrate systems on a turnkey basis, set up preventive maintenance schedules and upgrade existing equipment and processes. Our experienced cable process engineers can supply operator training, technical service and spare parts.



FRIGEO USA, Inc.

Gem Gravure

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Website: www.gemgravure.com

Contacts:

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pgemelli@gemgravure.com

Mark Kristoff, National Sales Manager,
mkristoff@gemgravure.com



Founded by Joseph Gemelli "the father of wire ID" in 1952, GEM Gravure's background in wire and cable manufacturing is what makes us the worldwide authority in wire

and cable marking today. Our company values and innovative pursuits allow us to maintain strong relationships with the largest suppliers and manufacturers throughout the world. The first company to introduce ink jet technology to the wire and cable industry, GEM is now the exclusive distributor for KBA-Metronic ink jet marking equipment in the US, Canada and the borders of Mexico. A line of GEM designed/manufactured contact printing systems combined with the ink jet printers to provide a full range of wire identification options. GEM offers the widest range of ink jet inks specifically designed for wire & cable along with specialty inks for wire harness applications. GEM's research & development center in Nixa, MO is dedicated to developing unique inks from creation of pigment dispersions to final ink formulation. Controlling the entire process allows GEM to create the highest quality products. Gem Gravure has been family owned and operated since 1952.

HALL Industries

The MGS Group

(MGS - HALL - NORTHAMPTON)

Physical: 8C Commerce Drive

North Branford CT, 06471

Mailing: P.O. Box 4259

Rome, NY 13442-4259

Phone: +1 203 481 4275

Fax: +1 203 481 5391

E-mail: sales@themgsgroup.com

Website: www.themgsgroup.com

Contact: Jeff Swinchatt or John Dudus



HALL Industries has been a part of The MGS Group since 1994. Hall Industries was founded in 1975 by Marcus Hall and became well renowned in the wire and cable industry over the years for engineered solutions for a variety of industry challenges. In October 1994, MGS Manufacturing Inc. of Rome, NY completed the purchase of substantially all of the assets of HALL Industries Inc., located

in Branford, CT. The MGS Group maintains HALL Industries engineering excellence in our R&D/Service office in North Branford, CT. We continue to design and manufacture systems to handle most any product from sensitive optical fiber to 1000MCM power cable. We also can handle odd shapes; tubing, ribbon, tape, and armored products. Our Automatic and Semiautomatic Takeups are extremely reliable for on-line packaging of a wide range of products and reels at high speeds, resulting in significant cost savings. Our solid designs begin with robust steel frames, progress to include the most advanced recipe driven PLC controls, and are supported by qualified engineers and technicians who respond when a customer needs help. HALL products include Fully Automatic Packaging Systems with Robotic Depalletizer/Palletizer, Payoffs and Takeups (Moveable Arm, Roll Thru, Cantilever Shaft, Multiple Spindles, Cone Pintle, Dual Semiautomatic And Automatic), Dancers, Vertical and Horizontal Accumulators, Capstans (Caterpillar, Belt Wrap, And Dual Drum), Fiber Optic Handling Systems, Rewinders, and Length Counters. Many of our systems are versatile and can produce reels and/or coils, allowing the flexibility to respond to your customer needs with the same Takeup. Our success with Automatic Coiling Machines arrives from our flexibility allowing a range of products and coil sizes to be produced on the same machine. It also includes banding, shrink wrap, labeling, and palletizing. Our line of Fully Automatic Takeup systems, the FAT18 and most recently the FAT820 SFL Series has delivered the well-recognized MGS/Hall/Northampton reliability and flexibility to the application.

Heritage Wire Die Division of Fuhrman Precision Services, Inc.

10484 North 200 West
Decatur, IN 46733
Phone: +1 260 728 9300



Fax: +1 260 728 9303
email: jon@heritagewiredie.com
Website: www.heritagewiredie.com
Contact: Jon M. Fuhrman

Manufacturer of a full line of natural single crystal, synthetic single crystal, and polycrystalline diamond wire drawing dies as well as recutting services. Also supplying tungsten carbide dies.

Huestis Industrial

68 Buttonwood Street
Bristol, RI 02809-0718, USA
Phone: +1 401 253 5500
Fax: +1 401 253 7350
Website: www.huestisindustrial.com
E-mail: sales@huestis.com

HUESTIS INDUSTRIAL

Manufacturer of air wipes, cable jacket strippers, payoff and take-up stands, coilers, accumulators, re-spooling/re-reeling systems, and buncher pay off stands. Huestis also distributes a full line of cold pressure welders and dies.

I.C.E. WIRE LINE EQUIPMENT INC.

4215 Boul. Poirier
St-Laurent, Qc
Canada H4R 2A4
Tel: 514-388-2023
Fax: 514-388-5835
Email: icegroup@bellnet.ca
Website: www.icewireline.com
Key contact: Tapan Ghosh



ICE Wire Line Equipment Inc. provides design, engineering, manufacturing and commissioning for the steel wire processing industry. Our supply includes: Austenitizing Furnaces, Fluid Bed Quenching Furnaces, Fluid Bed Annealing Furnaces, Fumeless "Dual Acid Wave" cleaning systems, Galvanizing and GalFan furnaces along with a variety of effective wiping systems. ICE Fluid Bed furnaces worldwide are producing high quality ferrous wire every hour, and our pickling systems use

the redesigned ICE "Dual Acid Wave" acid tanks along with other unique new concepts for the overall production line process. Wire manufacturers have been using ICE technology for many years to produce high and low carbon wire at high speeds. Helping to build and improve the wire industry one line at a time - ICE Wire Line.

INOEX LLC

1913 Olde Homestead Lane

Lancaster, PA 17601 USA

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Fax: 717-672-0872

Website: www.inoex.com

Adam Grier, President, amgrier@inoex.com

Cell +1 717 881 0322



INOEX is a pioneer in the development and production of innovative measuring and control technology. For more than 30 years INOEX has been developing systems and technical solutions which are precisely adapted to the specific requirements of the pipe, tubing, profile, wire and cable, and film extrusion industries. We offer measurement technologies such as Laser, X-ray, Ultrasonic, Terahertz, and Gravimetric with outstanding results and have revolutionized the measurement and control technology of plastic extrusion sustainably. For our customers, this means material savings, product quality improvement, and overall a more productive and efficient operation.

IWCS - Honorary WCISA Member

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David Kiddoo, CEO/Director,

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Industry Forum as the premier technology event for the exchange of information about product, material and process innovation for cabling and connectivity solutions, and for the development of industry professionals through education and scholarships. IWCS is committed to strengthen its connectivity content and industry presence, providing interaction with technical and supply chain professionals on the connectorization of cabling infrastructure. IWCS presents new content and promotes discussion of ideas and innovations to advance connectivity solutions. The IWCS Cable & Connectivity Industry Forum provides an opportunity to explore discussions on topical issues, learn about new technologies, and network with industry colleagues from around the world. Each year, the IWCS Symposium Committee generates an extremely high-caliber program for the Technical Symposium, which is the cornerstone of the Cable & Connectivity Industry Forum. Papers presented during the Technical Symposium remain publicly archived on the IWCS website to be referenced for ongoing research and education. The Annual Cable & Connectivity Industry Forum Includes The Following Event Components: TECHNICAL SYMPOSIUM, PROFESSIONAL DEVELOPMENT COURSES, EXECUTIVE TRACK, SUPPLIER EXHIBITION FEATURING NEW PRODUCT PRESENTATIONS, and PLENARY SESSION.

IWMA - Honorary WCISA Member International Wire and Machinery Association

Wellington House, Starley Way,

Birmingham International Park

Solihull, West Midlands B37 7HB,

United Kingdom

Tel: +44 121 781 7367

Fax: +44 (0)121 781 7404

E-Mail: info@iwma.org

Website: www.iwma.org



IWCS organizes the Cable & Connectivity WCISA has a cooperative Partnership Agree-

ment with the IWMA - International Wire and Machinery Association, and the IWMA is a Honorary Member of WCISA. The purpose of the Partnership is to unify and coordinate previously separated efforts related to international events that serve this industry sector including technical meetings, presentations and exhibitions. With over 300 members in nearly 60 countries, the IWMA is a corporate membership association for the wire, cable and wire product industries and offers a range of benefits, services and events to promote business opportunities within these sectors of the industry.

Joe Snee Associates, Inc.

P.O. Box 236, 34 Papino Road

Seekonk, MA 02771 USA

Tel: 774-991-0504

Contact: Joe Snee

joe@jsnee.com

www.pwmltd.co.uk,

www.betalasermike.com

 **Joe Snee**
Associates

The company is the exclusive USA and Canadian Distributor for Pressure Welding Machines (PWM).

Kalmark Integrated Systems Ltd.

214 Victoria Street

Simcoe, ON

Canada N3Y 4K2

Tel: +1 (519) 442-4567

E-mail: sales@kalmarkltd.com

Contact: Louis J. Kalmar

 **KALMARK**
INTEGRATED SYSTEMS LTD

Kalmark Integrated Systems is the industry leader in the manufacturing of rotating equipment for wire and cable production. Equipment can be used to produce electrical wire and cable, steel rope, conduit, flexible pipe and BRE-optics products. With over 35 years of experience, we have a broad understanding of what you need to accomplish your goals in production speed and capacity. Based on North American standards,

and our family values, we stand behind the safety and reliability of the equipment we produce. We also offer services such as production consulting, project management, plant relocation, foundation design, detailed manufacturing drawings, installation supervision and alignment by laser as well as after-sales service and spare parts. We offer flexible solutions to meet your cable making demands. This may include custom modifications, upgrading of individual components, factory reconditioned equipment as well as integrating new and existing sections. Kalmark maintains its commitment to Canadian Manufacturing through our latest expansion of a 44,000 square foot building in Simcoe, Ontario. We provide customized solutions to Canadian, USA and International wire and cable makers.

KEIR Manufacturing, Inc.

133 McLean Road

Brevard, NC 28712 USA

Phone: +1 828-885-8444

U.S. Toll Free: 800-992-2402

Cell: 828-577-7662

Fax: +1 828-884-7494

Email: watkins@KEIRmfg.com

Website: www.KEIRmfg.com

Contact: David K. Watkins, President/CEO



KEIR Manufacturing, Inc is an American based manufacturer of high-purity 99.8% Alumina Ceramic Guides, the Frontiersman™ line of Air Wipes, and Composite Flyer Bows serving the global wire & cable industry. We are dedicated to making products that enable manufacturing processes to run more efficiently and productively through the application of leading edge materials. Our solutions are focused on continuous process improvement, energy savings, and longer operating life.

Kinrei of America, L.L.C.

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E-mails: lschneider@kinreiusa.comsdonnnelly@kinreiusa.comWebsite: www.kinreiusa.com

Kinrei of America's cabling, bunching, and twinning products represent the latest advances in cable production technology. We offer complete selections of machines for ultra thin wire, unilay and concentric, litz, automotive, medical, twinning and cabling in tubular, single or double twist. We are committed to providing our customers with the highest quality products and industry-leading value added services that are acknowledged as the best available in the wire and cable industry. It is the mission of our entire organization to provide the highest possible customer service for the complete line of Kinrei equipment. In addition to offering you state-of-the-art cabling technology, Kinrei of America is also your source for: Donnelly Reels; Watson Parts & Service; Kopilowitz Engineering for payoffs, takeups and accessories; Candor Sweden AB plating equipment.

LaserLinc

777 Zapata Dr.

Fairborn, OH 45324 USA

Phone: 937-318-2440, Fax: 937-318-2445

Email: info@laserlinc.comWebsite: www.laserlinc.com

LaserLinc is a leader in open, scalable measurement and process control solutions that adapt to the way you work. Our non-contact systems are used for in-process and off-line dimensional measurement across a variety of industries to improve product quality, increase productivity, elevate production efficiencies and reduce material costs and scrap.

Leibinger Inc., Paul

2702 Buell Drive Ste B

East Troy, WI 53120 USA

Phone: 262-642-4030

Fax: 262-642-4033

Contact: Jan Visser, Vice President &

General Manager - Americas

Email: jvisser@leibingerusa.comInternet: www.leibingerusa.com

USA subsidiary of Paul Leibinger GmbH & Co. KG in Germany, offering integrated solutions for industrial marking technology and the printing industry, including industrial inkjet, verification and numbering systems. Paul Leibinger currently employs some 230 professionals in Tuttlingen, Germany and another 15 at its subsidiary in East Troy, WI USA.

LLFLEX

1225 West Burnette Ave.

Louisville, KY 40210 USA

Phone: +1.502.636.8400

Contacts: Tom Bowden, CEO

Emails: tbowden@llflex.comWebsite: www.llflex.com

LLFlex is a leader in the wire & cable supply industry, providing high quality armoring and shielding tapes from our Louisville, KY, USA facility. Our mono layer film formulations use the same uniform, high quality resins across 100% of the structure to give you consistent and reliable long term performance. Our high quality, domestic manufacturing, global reach and our longevity in the industry certainly distinguish us in the wire and cable marketplace, but the reason our customers depend on us for heavy and light gauge cable wrap is far more personal; we're cost-effective, stable, and totally aligned with operational requirements.

Madem-Moorecraft Reels USA

3006 Anaconda Road

PO Box 1528



Tarboro, NC 27886 USA

Email: steve@madem-moorecraft.comwww.madem-moorecraft.com

Contact: Steve Redhage,

Vice President/General Manager

Complete line of nailed wood reels with staves or fiber drums, plywood reels with fiber drums, laminated plywood reels with staves or fiber drums, and hardboard reels and spools with wooden staves or fiber drums. Also, repair and recycling of nailed wooden reels.

Magnetic Technologies Ltd.

43 Town Forest Road, PO Box 257

Oxford, MA 01540-0257, USA

Phone: +1 508 987 3303

Fax: +1 508 987 2875

Website: www.magnetictech.comE-mail: sales@magnetictech.com

Contact: John DeLuca, President

Manufacturer of stock and custom permanent magnet brakes for stranders, bunchers, twinners and payoffs in English and metric dimensions. Also manufacturing a complete line of custom built constant torque and constant tension payoff stands for a wide range of spool diameters and tension ranges.

Mathiasen Machinery, Inc.

Phone: 860-873-1423

Fax: 860-873-8866

Website: www.mathiasen-machinery.comE-mail: mmi@mathiasen-machinery.com

450 Town Street

East Haddam, CT 06423

Contact: Mark Mathiasen, President



Domestic and international buyer and seller of used and reconditioned wire and cable machinery for both the ferrous and nonferrous markets. Additional services include inspection and appraisals, plant liquidations, auctions, warehousing, and consulting. Specific machinery and equipment includes wire drawing machines from rod to fine wire, coilers, tubular stranders, rigid and planetary stranders, rolling mills, extruders and extruding lines, bull blocks, fence and barbed wire fabricating, mesh welders, spring coilers, and straighten and cut machinery. Complete inventory list available upon request.

MGS Manufacturing, Inc.**The MGS Group****(MGS - HALL - Northampton)**

Physical: 122 Otis Street

Rome, NY 13441

Mailing: P.O. Box 4259

Rome, NY 13442-4259

Phone: +1 315 337 3350

Fax: +1 315 337 4502

E-mail: sales@themgsgroup.comWebsite: www.themgsgroup.com

Contact: Jeff Swinchatt or John Dudus



MGS Manufacturing has provided a range of machinery to the Wire and Cable industry since 1969. The company's product range has included air wipes, brazing machines, double twist bunchers and tubular stranders to name a few. The company business approach of focusing on solutions engineering led to formation of The MGS Group. Today, the group consists of MGS Manufacturing,

Hall Industries and Northampton Machinery Co., an international supplier of automation and technology solutions for product handling and twisting systems...customized to optimize your application...comprehensive design and engineering capabilities...personalized service...ruggedly built for decades of reliable, consistent service.

Products include: Our NEW FAT820 SFL Series Fully Automatic Dual Takeup with the unique Robot Handling System for Depalletizing and Palletizing, Automatic Coiling System, Northampton Triple Twist Twinner, the latest design in Slip Ring Brushes and Holders, plus our standard product range which includes: Payoffs, Takeups and Rewinders (Portal, Roll Thru, Cantilever, Shaft and Cone Pintle Design); Dancers, Accumulators, Capstans, Length Counters, Air Wipes, Swage Tools, Electric Brazers, Double Twist Bunchers, Twinners, and Single Twist Cablers.

M. Holland Company

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T&T Marketing is a wire and cable distributor that has been serving the industry for the past 25 years. T&T meets the diversified needs of the industry by being a single source supplier of everything from bare copper to shielding, filling, insulating, and jacketing products.

Miltec UV

146 Log Canoe Circle
Stevensville, MD 21666, USA
Tel: 1-410-604-2900 Fax: 1-410-604-2906
Contacts: Charles Blandford, John Phillips
E-mail: sales@miltec.com
Web Site: www.miltec.com



Miltec UV, located in Stevensville, MD-USA has been servicing the UV industry for 28 years and sustaining its global leadership in manufacturing both arc and microwave ultraviolet curing systems. They offer standard UV equipment and custom designed systems to interface with existing or new manufacturing production lines.

Their most recent UV systems include the Xtrema family specifically designed for the optical fiber, wire, coloring, and FRP coating markets. These systems provide FASTER DRAW SPEEDS and seamless maintenance which results in significant energy and operational savings!



WCISA® Scholarship Program



WCISA®
Wire and Cable Industry
Suppliers Association®

WCISA offers three types of scholarships to its member companies:

- WCISA Employee & Intern Scholarship** for people currently working at a WCISA member company. One or more awards per year. Applicants should have a need and desire to enroll in or be enrolled in an in-person or online course or degree program that is related to their job description at the WCISA member company. Applications are due from employees, interns or colleagues at WCISA member companies by July 31 of each year.
- WCISA High School Graduate Scholarship** for high school graduates with a parent or grandparent working at a WCISA member company. One or more awards per year. Applicants must be a high school graduate enrolled in a college or university in the fall of the application year. Any planned field of study is acceptable. Applications are due from students or parents/grandparents at WCISA member companies by July 31 of each year.
- WCISA Special Scholarship** for extraordinary or special circumstances, directly or via industry partners (memorials, hardships, research projects, endowments, etc.). These are awarded on a case-by-case basis. Applications or requests may be submitted at any time of the year by an employee of any WCISA member company or via industry partners.

Materials to Submit: Applicants should submit a written statement to info@wcisaonline.org, identifying their connection to a WCISA member company, the desired scholarship and the reasons to be selected

www.wcisaonline.org • info@wcisaonline.org

WCISA® member companies are North American-based suppliers of machinery, materials and accessories for making all types of wire and cable. Annual Dues: \$300/company
Established in 1996, WCISA is a nonprofit trade association.

NDC Technologies
(BETA LaserMike Products)

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Fax: +1 937 233 7284

Web Site: www.ndc.com/betalasermikeE-Mail: info@ndc.com**Niehoff Endex North America**

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Fax: +1 856 467 0584

Website: www.Niehoff-USA.comE-mail: sales@niehoffendex.com

Contact: Lisa Lent, Sales Administrator



BETA LaserMike line from NDC Technologies is the most comprehensive range of on-line and off-line measurement and control solutions for the wire and cable industry. From smart, high-accuracy non-contact gauges with easy connectivity that measure diameter, wall thickness, eccentricity, length & speed, to lump & neckdown detectors, to preheating systems, to factory-wide automation and control systems, our systems deliver precision, performance, and bottom-line value day in and day out. Contact NDC today to discuss your toughest challenge!

Niagara Composites International Inc.

82 Vaughan Road

Welland, Ontario

L3B 5Y1 Canada

Phone: 1-905-788-4040

Fax: 1-905-788-1991

www.niagaracomposites.com

Contact: Lori Bryan-Chester

Email: lori@niagaracomposites.com

Manufacturer and supplier of nonferrous wire drawing and processing machinery including: single and two-wire rod breakdown lines as well as intermediate and fine single and multiwire drawing machines. Our product line also includes: aluminum & copper alloys continuous resistance annealers, inductive/resistive annealers for alloys, single and double spoolers, automatic pack coilers and bundle packers, double twist bunchers, ultra fine wire drawing machines, tin, silver & nickel electroplating machines, wire and cable packaging equipment including NPS NIEHOFF PACKAGING System. We also offer automatic Bobbin winders & high-speed vertical braidiers for the wire industry as well as the medical applications. We are capable of supplying turnkey projects and customized equipment and lines including payoffs, take-ups, filtration systems, etc... Exclusive Distributor for SCHMIDT wire drawing equipment in North America.

Serving the wire industry since 1980, Niagara Composites stands out as an industry leader and global supplier of leading-edge bow products. Niagara Composites is committed to innovation and continuous improvement, offering outstanding customer service and competitive prices on premium quality flyer bows to the global wire twisting and bunching industry. Many Niagara Composites' innovations in bow design have had a significant, positive impact on the production of wire and cable.

Northampton Machinery Co. (USA)

The MGS Group

(MGS - HALL - Northampton)

Physical: 122 Otis Street

Rome, NY 13441

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Rome, NY 13442-4259

Phone: +1 315 337 3350

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Northampton Machinery Co. (UK)

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E-mail: sales@themgsgroup.com

Website: www.themgsgroup.com

Contact: Jeff Swinchatt or John Dudus



The MGS Group, which consists of MGS Manufacturing, Hall Industries and Northampton Machinery Co., is an international supplier of automation and technology solutions for product handling and twisting systems... customized to optimize your application... comprehensive design and engineering capabilities... personalized service... ruggedly built for decades of reliable, consistent service. Northampton Machine joined The MGS Group in 2003 further reflecting the group's commitment for well-engineered and supported products for the wire and cable industry. Products include: Our Fully Automatic Dual Takeup with the unique Robot Handling System for Depalletizing and Palletizing, Automatic Coiling System, Northampton Triple Twist Twinner, the latest design in Slip Ring Brushes and Holders, plus our standard product range which includes: Payoffs, Takeups and Rewinders (Portal,

Roll Thru, Cantilever, Shaft and Cone Pintle Design); Dancers, Accumulators, Capstans, Length Counters, Air Wipes, Swage Tools, Electric Brazers, Double Twist Bunchers, Twinners, and Single Twist Cablers.

Nylon Corporation of America (NYCOA)

333 Sundial Ave

Manchester, NH 03103 USA

Phone 603-627-5150

Fax 603-627-5154

www.nycoa.net

Monica Kumar, CFO, kumar@nycoa.net



Operating for over 60 years, NYCOA manufactures specialty nylon resin used as the ULrequired nylon jacketing for building wire and cable. NYCOA supplies nylon to some of the industry's largest wire producers and has developed many innovative products for its customers changing needs.



WCISA® Scholarship Program



WCISA®
Wire and Cable Industry
Suppliers Association®

WCISA offers three types of scholarships to its member companies:

- 1. WCISA Employee & Intern Scholarship** for people currently working at a WCISA member company. One or more awards per year. Applicants should have a need and desire to enroll in or be enrolled in an in-person or online course or degree program that is related to their job description at the WCISA member company. Applications are due from employees, interns or colleagues at WCISA member companies by July 31 of each year.
- 2. WCISA High School Graduate Scholarship** for high school graduates with a parent or grandparent working at a WCISA member company. One or more awards per year. Applicants must be a high school graduate enrolled in a college or university in the fall of the application year. Any planned field of study is acceptable. Applications are due from students or parents/grandparents at WCISA member companies by July 31 of each year.
- 3. WCISA Special Scholarship** for extraordinary or special circumstances, directly or via industry partners (memorials, hardships, research projects, endowments, etc.). These are awarded on a case-by-case basis. Applications or requests may be submitted at any time of the year by an employee of any WCISA member company or via industry partners.

Materials to Submit: Applicants should submit a written statement to info@wcisaonline.org, identifying their connection to a WCISA member company, the desired scholarship and the reasons to be selected

www.wcisaonline.org • info@wcisaonline.org

WCISA® member companies are North American-based suppliers of machinery, materials and accessories for making all types of wire and cable. Annual Dues: \$300/company
Established in 1996, WCISA is a nonprofit trade association.

OVERVIEW, Wire & Cable International

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President & Publisher

Wire & Cable International OVERVIEW is the North American-based business and market newsletter covering the international wire and cable industry: manufacturing, distribution and use of all types of electrical, communication and mechanical wire and cable. The OVERVIEW newsletter is published 17 times per year by the publisher of the bimonthly technical magazine Wire & Cable Technology International. The OVERVIEW newsletter is available in print, PDF and Flipbook editions, and advertising opportunities are offered.

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Website: www.prspecialty.comEmail: sales@prspecialty.com

Contact: Greg Blankenship



P&R Specialty, a leading provider of spools and reels since 1982, offers a complete product line of plastic spools, fiberboard spools and plywood reels. P&R provides the highest level of customer service in the industry as well as designs and manufactures molds with our in-house tool shop. Our in-house tool shop, which adds tremendous value to our customers' experience, is a unique feature in the industry. Our tool shop team is dedicated to designing, building, and maintaining all the tooling used in the manufacturing processes at P&R Specialty, Inc. Preventative maintenance is performed

efficiently and repairs are made quickly, reducing downtime and allowing us to meet or exceed production expectations.

Pittsfield Plastics Engineering, LLC

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E-Mail: nick@pittsplas.comWeb site: www.pittsplas.com

Pittsfield Plastics is a manufacturer of plastic spools and reels for bare wire, fine wire, insulated wire, tape, solder and textile products. PPE also produces custom molds for any type of custom spool or reel. We are your one stop for all your plastic spool and reel needs. Made in the USA.

Pittsfield Plastics Engineering, Inc.
& Precision Spools, Inc.**Precision Die Technologies (PDT)**

4716 Speedway Drive

Fort Wayne, IN 46825 USA

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National Sales & Marketing Manager

Office Phone: 260-482-5001

Cell Phone: 260-450-0348

Email: sales@pdtinc.comWebsite: www.pdtinc.com

Precision Die Technologies (PDT) has been based in Fort Wayne Indiana since 1989 supplying the world die needs, it is the second or third largest die company in the North America. PDT specializes in new, reconditioned, leased, and re-cut services for Natural Diamond, Polycrystalline, and Monocrystalline Drawing Dies. PDT also provides Shaped, Split, Bunching and Stranding Dies. ISO 9001:2008 certified, the company's broad range of services include Inventory Management Programs that will reduce your die inventory cost and give you one week delivery on your dies needs. For more information about PDT Partner driven Processes, and all of its outstanding products

and services, please visit our web site at www.pdtinc.com.

QED Wire Lines Inc.

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E-mail: sales@qedwire.com

Website www.qedwire.com



The Process Line Specialists: QED Wire Lines Inc. is a custom furnace manufacturer and engineering company specializing in process equipment for the steel wire industry. Our leading-edge furnaces are custom built for multi-strand annealing, stress relieving, patenting and tempering processes. With over 30 years of industry experience and innovation, we proudly serve customers in over 20 countries. Our patented equipment is backed by QED's renowned excellence in service; with commissioning and installation supervision as well as spare parts support, QED provides a complete package for processing wire. Our offerings include:

- **Energy Efficient Fluidbeds:** with rapid heat transfer resulting in significantly shorter furnace length and more compact process lines.
- **Pulse-Firing Muffle Tube Furnaces:** Benefits include improved thermal efficiency, increased temperature uniformity and superior convective heat-transfer.
- **Networked Panels with Remote Monitoring and Control:** Programmed with user friendly software and advanced combustion algorithms, they deliver precise temperature control.
- **Combustion Technology:** Our patented system maintains a steady output with precise air-gas ratio on all our multiple burner furnaces.
- **Industry leading Galvanizing & Galfan Coating:** offering robust furnaces with new high efficiency recuperative im-

mersion burners.

- **Powerful Pre-Cleaning with Ultrasonics:** incorporating new temperature and level control features with powerful ultrasonic transducers in combination with an innovative 4 stage suction wiping system.
- **Patented Pickling:** A proven performer, our HighTurbulence® Pickling System optimizes fluid flow turbulence to rapidly remove scale.
- **High Efficiency Coat Weight Control:** The innovative QED AutoCoat™ system ensures premium quality, high efficiency, and significant Zinc / Galfan® savings.

QED offers solutions for all steps in your process including: Heat Treatment, Wet Sections, Metal Coating, Wiping Systems, Spare Parts and Technical Services.



WCISA® Scholarship Program



WCISA offers three types of scholarships to its member companies:

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2. **WCISA High School Graduate Scholarship** for high school graduates with a parent or grandparent working at a WCISA member company. One or more awards per year. Applicants must be a high school graduate enrolled in a college or university in the fall of the application year. Any planned field of study is acceptable. Applications are due from students or parents/grandparents at WCISA member companies by July 31 of each year.
3. **WCISA Special Scholarship** for extraordinary or special circumstances, directly or via industry partners (memorials, hardships, research projects, endowments, etc.). These are awarded on a case-by-case basis. Applications or requests may be submitted at any time of the year by an employee of any WCISA member company or via industry partners.

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www.wcisaonline.org • info@wcisaonline.org

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Established in 1996, WCISA is a nonprofit trade association.

RAD-CON, Inc.

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Since 1966, RAD-CON, Inc. has been developing, designing, manufacturing, and supporting bell-type annealing furnace facilities for the metals industry. From its corporate headquarters in Cleveland, Ohio USA, RAD-CON supplies the world with the most technologically advanced bell-type furnace systems available on the market. RAD-CON pioneers many new technologies to enhance the consistency and efficiency of bell-type annealing, including innovations related to convection design, scheduling systems, and atmosphere control. RAD-CON continues to be a leading supplier to the wire annealing industry, especially in the field of cold-heading quality (CHQ) wire used in the manufacture of fasteners. RAD-CON's experience also encompasses ferrous and non-ferrous applications in the agricultural, electrical, construction, spring, industrial, and communications industries. RAD-CON's technologists help new and experienced metal processors worldwide, beginning at project concept through technical supervision and implementation and throughout the subsequent years of ownership. RAD-CON's team of mechanical engineers, electrical engineers, software developers, and metallurgists help clients every step of the way. With designs derived in direct response to customers' needs, RAD-CON has earned a well-deserved reputation for excellence worldwide.

REELEX Packaging Solutions, Inc.

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39 Jon Barrett Road, Patterson, NY 12563, USA

Contact: Timothy Copp, Vice President Business Development



REELEX Packaging Solutions, Inc., formerly Windings, Inc. is the developer and licensor of The REELEX® System, and has been leading the way since 1957. REELEX is a patented method of winding cable or any cord-like product in such a way as to result in a reel-less, self-supporting coil. This unique coil dispenses from the inside out without twists, tangles, snags or overruns. The packages are easy to handle, stack and palletize, are far lighter than reels and spools and are 100% environmentally friendly. Sold under various brand names by the world's leading wire and cable manufacturers, REELEX has become the standard packaging system for "last-mile" lengths of LAN and Coaxial cable and is growing to be the preferred package for many other types of products like rope, building wire, plastic tubing, and more. REELEX Packaging Solutions, Inc. authorizes its customers to use its patented REELEX technology through a license agreement. The agreement provides royalties to be paid to REELEX Packaging Solutions, Inc. in exchange for the use of the patented technology. The agreement also guarantees that REELEX Packaging Solutions, Inc. will sell its REELEX coiling equipment to licensees at its own cost. This allows each licensee to be confident that it is engaging on a level playing field and that REELEX Packaging Solutions, Inc. is treating all its licensees equally and fully supporting them all. For more information on REELEX and our representatives in other countries please look to www.REELEX.com.

**Reel Options
by Vandor Corp.****Reel Options®**
by Vandor Corporation

4251 W. Industries Road
Richmond, IN 47374 USA
Contact: Adrienne Cowen,
Sales & Customer Service Manager
Website: www.reeloptions.com
Email: Adrienne.cowen@reeloptions.com

Reel Options by Vandor Corporation, established in 1972, is a leading manufacturer of plastic reels and spools. Engineered for superior product protection, reels can be shipped fully assembled or as KD components for local assembly and freight savings. Product line ranges from utility spools to larger plastic flanged reels and three-flanged reels.

Refractron Technologies Corp.

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Refractron manufactures durable zirconia ceramic, capstans, pulleys, guides and eyelets for wire and cable manufacturing. Izory® HD, our flagship product, is specified on drawing mills made by all major OEMs. Our team understands the key role Izory® HD plays in wire manufacturing and thru our on-site assessments can offer solutions to lower costs, improve wire quality and ensure just in time availability. All products are made in Newark, New York USA. The facility, which includes a precision machine shop and materials testing laboratory, is ISO 9001 and ITAR certified.

RichardsApex, Inc.

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4202-24 Main St.
Philadelphia, PA 19127, USA
Contact: Drew Richards, CEO

RICHARDSAPEX

RichardsApex is a leading global manufacturer of lubricants for wire drawing and hot rolling applications. Our products include semi-synthetic and synthetic compounds for wet drawing of non-ferrous and ferrous wire. Also available are protective coatings, cleaners, corrosion inhibitors, and oil form lubricants for all non-ferrous and ferrous alloys in both wire and tube applications.

Roblon US Inc.

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Roblon

Roblon is a total solution provider to the OFC industry, producing cable-making machinery and precision winding equipment along with industrial yarns such as FRP, glass, polyester and aramid yarns for production of optical fiber cables.

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**Royle Systems Group**

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Contact: Gregory J. Ramsey, President
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engineering@roylesystems.com,
service@roylesystems.com,
gramsey@roylesystems.com
Web site: www.roylesystems.com

**Royle Systems Group**

A freight forwarder that provides round-trip transportation (ocean and/or air), logistics, on-site handling and customs clearance service for North America wire and cable related industry exhibitors who send exhibition material to be exhibited at international trade shows, regardless of destination.

Roteq Machinery Inc.

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Contact: Mike Marshall, President, Kevin Dancy (Kevin.Dancy@Roteqmachinery.com) for sales information.



Roteq is dedicated to the design and manufacture of rotating equipment solutions serving wire and cable, steel rope, copper telecom, fiber optic and flexible pipe industries worldwide from our facilities (Manufacturing, Engineering and Administration) in Concord ON Canada.

Royle Systems Group designs, manufactures, and integrates systems for the wire, cable and fiberoptic industries. RSG was founded in Paterson, NJ in 1855 as an engineering and manufacturing concern, and is still private and closely held by the management group. Located less than one hour by car from all three New York area international airports, RSG's headquarters are in Oakland, NJ, USA, where the products are fabricated in state-of-the-art manufacturing facilities. RSG continues to be an OEM world-leader in the integration of systems and the supply of quality equipment for a wide range of extrusion, wire & cable, and fiber optic applications. RSG offers its clients technical services to facilitate installation and maintenance of its systems, as well as classroom and hands-on training programs.

SAMP USA, Inc.

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Website: www.sampinc.com
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**SAMP SISTEMI**

SAMP USA, Inc., a division of SAMP SISTEMI produces a full range of single and multi-wire drawing machinery and extrusion line systems with accompanying processing equipment such as extruders, bunchers, payoffs, take-ups, spoolers and coilers. In the U.S., SAMP USA, Inc. also represents Rizzardi

for tungsten carbide & ceramic drawing capstans and cones.

Sark-USA, Inc.

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Contact: Brigit Finley,

Director of Sales & Marketing

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Our capabilities include the production of single ends, as fine as 44 AWG, put up singularly, or as multiwire. Our stranding capabilities include all concentric types, including bunched wire, unilay, and ropelay conductors, as large as 750 MCM. All of our products are available in unplated, tin plated and nickel plated qualities.

SDI LaFarga, LLC

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New Haven, IN 46774 USA

Phone: 260-748-6551

Fax: 260-748-6567

Contact : PC Drouin, Sales Manager

Email: pcdrouin@sdilafarga.com



SDI LaFarga is a copper rod producer, and also produces bare copper wire from 6 to 16 AWG. SDI La Farga LLC is a joint venture between Steel Dynamics Inc., based in Fort Wayne, IN, USA, and The La Farga Group, based in Barcelona, Spain.

SGS North America , Inc.

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Bobby Brown, Director Of Operations

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SGS North America, Inc. was founded in 1971. We occupy 17,000 ft² in Farmingdale, NY, USA. Govmark Testing Services specializes in fire testing to determine product conformity to code requirements. Approximately 4,000 ft² is devoted to wire and cable fire testing, both U.S. and international standards. Amongst other tests, we perform IEEE-383, IEEE-1202, and most of the UL tests. We pride ourselves on our quality performance and prompt service

SIKORA International Corporation

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SIKORA is a leading manufacturer and supplier of innovative inline measuring, control, inspection, analyzing and sorting technologies for the wire and cable, optical fiber, hose and tube, sheets, metals and plastics industries. Among others, modern Laser and X-ray technologies measure precisely product parameters such as diameter, ovality, wall thickness and concentricity. Worldwide, users of SIKORA technology benefit from an increasing quality, process optimization and efficiency of the manufacturing process.

SIMPACKS

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**SIMPACKS**

used in a variety of ferrous and nonferrous applications.

Sonoco Plastics

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Website: www.sonoco.com/reelsContact: Jay Swetenburg - Sales Manager –
Plastic Spools/ReelsE-mail: jay.swetenburg@sonoco.com

(North America)

E-mail: joerg.meschut@sonoco.com

(Europe/Asia)



NEW Re-Designed Dual Head Automatic Coiler can Coil 18 AWG up to 8 AWG Building Wire Solid or Strand. Also can Coil Flat Wire/Cable. This Coiler is capable of producing 4 ~ 6 coils per minute of 100M Length. Change time less than 2 sec. Our NEW Automatic COILER + STRAP + COIL HOLDER are available for all your Steel Wire Packaging 22 ~ 34 Kg Coil. Including 2 / 4 Straps option. Also NEW Re-Designed Automatic COILER + STRAP is available for all your Hose / Armor Cable Packaging solutions. Including 2 / 4 Straps on Coil. NEW Automatic COILER + FILM is available for all your short Length 15M / 25M / 50M / 75M / 100M

Sonoco offers you a full range of plastic reels and spools including Reel Tough™ ribbed-flange reels, fine wire, utility and plywood replacement spools, plus fiber optic and other specialty spools such as space-saving Twist-Lok™ spools that assemble and disassemble without tools! One of the world's largest manufacturers of plastic spools and reels, Sonoco offers sizes ranging from small precision spools for wire as fine as 56 AWG to reels capable of carrying over 1,000 lbs. (454 kg). Ask about our plastic reel and spool recycling program. See also: Sonoco Reels.

Sjogren Industries, Inc.

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Worcester, MA 01610 USA

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**Sonoco Reels**

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Contact: Leslie Lawrence –
Customer Service Manager

Sjogren Industries, Inc. has been providing high quality machinery, tooling and accessories to the wire and cable and tubing industry for 90 years. Our product line includes wire straighteners, wedge grips, wire guides, and magnetic brakes and clutches to be

One of the world's largest manufacturers and suppliers of high-quality reels and spools. Lines include nailed wood reels, plywood-

flanged reels with wooden staves or fiber tube drums, corrugated and tubular steel reels, as well as polyfiber composite reels. With flange diameters from 10 inches to 240 inches, Sonoco Reels serves a wide variety of industries, from power transmission, control and distribution, to telecommunications, commercial and industrial construction, infrastructure, oil, gas and marine. Sonoco's EcoReel® program recycles and refurbishes nailed wood and polyfiber reels. See also: Sonoco Plastics.

Southwire Company, SCR Technologies

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E-mail: jimmy_cooper@southwire.com

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Contact: James D. Cooper, P.E., Vice President, SCR Technologies



Southwire Company is the expert on continuous-cast rod systems. Today half the world's copper rod is made using the patented Southwire Continuous Rod (SCR) method. Nearly 80 SCR systems have been sold around the world. Southwire's SCR Technologies provides proven experience in continuous-casting rod technology. With SCR's Technology Pool, users get access to continuous technology improvements.

Stolberger Inc.

DBA Wardwell Braiding Co.

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Contact: John Tomaz, Vice President

Cynthia Chen, Sales and Marketing Manager



chines, Wardwell also offers spiraling, re-winding, payoff and wind-up equipment worldwide. Braiders are available in 16 and 24 Carrier sizes in high-speed rotary style, 3-144 carriers in maypole style and 16-72 carriers for electrical harnesses applications, integrated and remote payoffs and take-ups for reels ranging from 355 mm to 2000 mm. Re-winders are offered in semi-automatic, fully automatic and wire-splitting styles with 2, 3 or 4 spindles with static and dynamic payoffs to match. Our service program includes training, assistance with commissioning and start-up, and annual service contracts to evaluate equipment condition, current PM procedures and trouble-shooting.

Taymer International Inc.

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Fax: 905-479-2636

Email: info@taymer.com or

taymer@sympatico.ca

Contact: Craig Girdwood



Print Quality
Second to None
Accurate
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Taymer's products are focused on providing hot foil printing, hot stamp wire printing machines, cable length measurement, camera inspection solutions and uncoilers for industrial applications in wire, cable, pipe and tube. Taymer has been manufacturing cable marking machines, especially cable hot foil printers and hot stamp wire markers for harness identification, for over 35 years. All of Taymer's wire harness hot stamping machines and cable hot foil printers are continuous process cable marking machines, increasing the productivity and reducing costs of your operation.

A leading manufacturer of braiding ma-

Teknor Apex Co.



TEKNOR APEX

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Contact: David Braun, Industry Manager,
Wire & Cable Compounds

Manufacturer of Apex PVC compounds, Fire-Guard flame retardant plenum compounds, Elexar & Telcar thermoplastic elastomers, Flexalloy PVC elastomers and Halguard HFFR (Halogen Free Flame Retardant) compounds for all types of electrical, electronic, and fiber optic wire and cable.

Tensor Machinery

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TENSOR
MACHINERY

An advanced approach to design has made Tensor Machinery Ltd. a global leader and innovator in the wire, cable and fiber optic machinery industry, with customers in over 40 countries on five continents. We like to think of it as engineering designed to impress engineers. Driven by the principles of our founder, the late George Kepes, our 30 years of industry-leading innovation—combined with a customer-focused approach to manufacturing design and assembly—ensures we deliver the best, most reliable technical solutions for your specific needs. Our superior quality control and responsive service means faster commissioning and a worry-free customer experience. That worry-free experience starts with a thorough understanding of your specific needs. Tensor Machinery then uses advanced design tools and the latest mechanical, electrical and electronic technology to ensure our equipment is engineered both to deliver to your specifications and to withstand the daily



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WCISA[®]
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Suppliers Association[®]

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- 1. WCISA Employee & Intern Scholarship** for people currently working at a WCISA member company. One or more awards per year. Applicants should have a need and desire to enroll in or be enrolled in an in-person or online course or degree program that is related to their job description at the WCISA member company. Applications are due from employees, interns or colleagues at WCISA member companies by July 31 of each year.
- 2. WCISA High School Graduate Scholarship** for high school graduates with a parent or grandparent working at a WCISA member company. One or more awards per year. Applicants must be a high school graduate enrolled in a college or university in the fall of the application year. Any planned field of study is acceptable. Applications are due from students or parents/grandparents at WCISA member companies by July 31 of each year.
- 3. WCISA Special Scholarship** for extraordinary or special circumstances, directly or via industry partners memorials, hardships, research projects, endowments, etc.). These are awarded on a case-by-case basis. Applications or requests may be submitted at any time of the year by an employee of any WCISA member company or via industry partners.

Materials to Submit: Applicants should submit a written statement to info@wcisaonline.org, identifying their connection to a WCISA member company, the desired scholarship and the reasons to be selected

www.wcisaonline.org • info@wcisaonline.org

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demands of high-volume production. Tensor is renowned for dependable equipment designs, and our unique in-house pre-testing process ensures your newly installed equipment is production ready within days. When it comes to fiber optic or specialized copper wire manufacturing needs, Tensor offers a wide range of equipment and customized solutions: from individual components to complete turn-key manufacturing lines. Our products include UV Coloring lines, Ribbon Fiber manufacturing, SZ and Planetary Stranding, Pay-offs and Take-ups, Tape Armoring, Yarn Serving and complete Jacketing lines for indoor and outdoor cable products. We invite you to learn more about how Tensor can exceed your expectations. For more information, contact Ken Luterbach, Director of Sales at sales@tensormachinery.com.

W. Gillies Technologies, LLC

250 Barber Ave.

Worcester, MA 01606, USA

Tel: 508-852-2502

Mark Spencer, m Spencer@wgillies.com



W. GILLIES TECHNOLOGIES



W. Gillies Technologies, LLC is a USA-based company in that is in partnership with the RSD Group, offering worldwide support in customized contact printing and non-contact marking solutions for the wire and cable, hose and tubing industries. In addition, W. Gillies Technologies, LLC specializes in the manufacture of engraved printing rollers designed for use in a variety of industries.

WAI – Honorary WCISA Member

**The Wire Association
International, Inc. (WAI)**

71 Bradley Road, Suite 9

Madison, CT 06433-2662 USA

Website: www.wirenet.org

Phone: 203-453-2777



THE WIRE ASSOCIATION
INTERNATIONAL, INC.

The WAI, founded in 1930, is a worldwide technical society for wire and cable industry professionals. WAI collects and shares technical, manufacturing, and general business information to the ferrous, nonferrous, electrical, fiber optic, and fastener segments of the wire and cable industry. WAI hosts trade expositions, technical conferences, and educational programs, and it publishes the Wire Journal International (WJI), HardWIRED, the annual WJI Reference Guide, and technical products available through the WAI Store.

Wasik Associates, Inc.

29 Diana Lane

Dracut, MA 01826

Tel: 978-454-9787

Fax: 978-454-0499

Contact: Peter Wasik

Email: peter@wasik.com

Website: www.wasik.com



We are a manufacturer of Electron Beam Crosslinking Equipment for the wire and cable industry. We also provide service as well as training. Our expertise includes self-shielding vaults, concrete vault designs for systems from 350 KV to 1 MeV

Western Engineered Products

540 N. Lapeer Rd., #390,

Lake Orion, MI 48362 USA

Phone: 248-800-4545

Fax: 248-800-4547

Web site: www.westernep.com

Email: sales@westernep.com

Contact: Lee Richmond, President



Western Engineered Products manufactures annealing contact bands, ring, and hubs for single wire and multi-wire resistance annealers. Most sizes of OEM replacements are in stock for immediate shipping. Custom sizes are also available.

**WCMA – Honorary WCISA Member
Wire & Cable Manufacturers Alliance,
Inc. (WCMA, Inc.)**

P.O. Box 290077

Wethersfield, CT 06129 USA

Tel: 860-331-7074

Email: info@wcmainc.orgWebsite: www.wcmainc.org

Contact: Ed Fenton, Executive Director



Wire & Cable Manufacturers' Alliance (WCMA) is a non-profit business association serving the manufacturers of low to high-voltage electrical, electronic and fiber optic wire and cable with an established manufacturing base located in North America. Membership includes producers of signal and current-carrying wire and fiber, producers of bulk cables and wire and cable processors and fabricators. Corporate membership of the above also includes industry suppliers, service providers, affiliated companies and organizations that support the cable manufacturing and processing industry. WCMA produces premier events that bring owners, executives and key managers together for networking, the exchange of information and to promote the wire and cable industry. The Wire & Cable Manufacturers Alliance was established in June 2004, as the successor organization to the Wire & Cable Clubs of America.

Wire & Cable Technology International

1741 Akron Peninsula Rd.

Akron, OH 44313 USA

Phone: +1 330 864 2122

Fax: +1 330 864 5298

Website: www.wiretech.comE-mail: info@wiretech.com

Key Contact: Chip Lippincott,

President & Publisher



Wire & Cable Technology International is a bimonthly international technical magazine for manufacturers, distributors and users of

all types of electrical, communication and mechanical wire and cable including fiber optic cable. Additional publications include the Wire & Cable Technology Buyer's Guide (annual publication) and the Wire & Cable International OVERVIEW business and market newsletter which is published 17 times per year. Magazine subscriptions are free to wire and cable industry professionals, and the newsletter and buyer's guide are available for purchase. All publications offer many advertising and editorial opportunities.

Wire Forming Technology International

1741 Akron Peninsula Rd.

Akron, OH 44313 USA

Phone: +1 330 864 2122

Fax: +1 330 864 5298

Website: www.wireformingtech.comE-mail: info@wireformingtech.com

Key Contact: Chip Lippincott,

President & Publisher

Wire Forming Technology International is a quarterly international technical magazine for manufacturers, distributors and users of all types of springs, wire formed products, rebar products and wire mesh. We cover the machines, material and accessories use to make a wide variety of wire products including springs, wire forms, welded wire products, rebar forms, fencing, wire mesh, etc. Magazine subscriptions are free to wire forming industry professionals. Advertising and editorial opportunities are available.

**Wire & Plastic Machinery Corp.**

100 Franklin Street

Bristol, CT 06010, USA

Phone: +1 860 583 4646

Fax: +1 860 589 5707

Website: www.wireandplastic.comE-mail: sales@wireandplastic.com

Contact: Rahul Sachdev,

Executive Vice President



International supplier of complete used and reconditioned wire and cable machinery for the nonferrous market. Specializing in complete rebuilt extrusion lines with dual reel take ups; rod breakdown, intermediate, and fine wire drawing lines; single twist & double twist cablers; planetary, rigid & tubular stranders, drum twisters, armorers & laying up lines; taping & rewind lines; Wardwell, Spirka, NEB/TMW braiders; extruders (plastic & rubber), payoffs, take-ups, capstans/caterpullers, coils, welders, etc. Plastic mixers, granulators, pelletizers, dryers, 2 roll mills, vacuum sizers, etc.

Wire Lab Co.

Phone: +1 216 362 0800

Fax: +1 216 433 0007

Website: www.wirelab.comE-mail: E-mail@wirelab.com15300 Industrial Parkway
Cleveland, OH 44135, USA

Contact: Rob Fulop, President

Manufacturer of mechanical descaling equipment for the ferrous wire industry. Reverse Bend Descaling Systems, Automatic Wire Brush Descalers and recently added - Cym Materiales Shotblasting Machinery. Also wire drawing aids including Lubricant Applicators and Pressure Die Systems for ferrous and nonferrous applications, die box accessories such as water cooling, and other custom accessories.

**Witels Albert USA Ltd.**27 NE Industrial Road
Branford, CT 06405 USA

Phone: 410-228-8383

E-mail: info@witels-albert-usa.comWebsite: www.witels-albert-usa.com

USA sales office and warehouse for Witels Apparate-Maschinen Albert in Germany.

Supplier of straightening and guiding tools and machinery. Also manufacture computerized wire straightener adjustment systems, straightener payoffs, drive systems, pre and post formers and cable strippers for the wire and cable industry.

Zumbach Electronics Corp.

Phone: +1 914 241 7080

Fax: +1 914 241 7096

Website: www.zumbach.comE-mail: sales@zumbach.com140 Kisco Avenue
Mount Kisco, NY 10459-1407Contact: Keith F. Donahue,
Vice President Sales

Zumbach offers a full line of on-line measuring, monitoring, and control instruments and systems including non contact diameter monitors/control systems, on-line capacitance monitors, control systems for cellular extrusion, eccentricity and wall thickness monitors (ultrasonic or eddy current), OD/ID/Wall systems for cable jacketing or tubes, hollow profiles, X-ray wall thickness and eccentricity monitors for CV line applications, lump/neckdown detectors, wire preheaters, annealer control systems, spark testers, recorders, printers, and SPC/SQC data acquisition systems.



WCISA[®] Member Benefits



WCISA[®]
*Wire and Cable Industry
Suppliers Association[®]*

1. **COMPANY AND PRODUCT PROMOTION:** WCISA Member Directory and Product Guide: published annually and distributed worldwide at trade shows and conferences in North America, Europe and Asia. WCISA web site, www.wcisaonline.org, containing member company and product information and hotlinks to member's e-mails and web sites. WCISA press releases published in wire and cable media outlets.
2. **REPRESENTATION AT TRADE SHOWS AND CONFERENCES:** WCISA exhibit booths. Literature distribution at shows. Pavilion sponsorships. Show services. Hospitality Events.
3. **NETWORKING AND SOCIAL OUTING OPPORTUNITIES:** At exhibitions and conferences.
4. **SCHOLARSHIPS FOR WCISA MEMBER COMPANIES:** Employees, Interns, High School Graduates, Special Circumstances.
5. **PARTNERSHIPS & DIALOGS WITH INDUSTRY ASSOCIATIONS AND EVENT ORGANIZERS:** IWCS, IWMA, MESSE DÜSSELDORF (GERMANY & NORTH AMERICA), WAI.
6. **A UNIFIED VOICE & SUPPORT OF NORTH AMERICAN SUPPLIERS**

**SUPPORT THE INDUSTRY, YOUR COMPANY AND
YOUR FELLOW NORTH AMERICAN SUPPLIERS
IN THE WORLDWIDE MARKETPLACE**

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BECOMING A WCISA MEMBER:

WCISA is a nonprofit corporate membership organization open to North American suppliers of machinery, materials and accessories used for making all types of wire and cable. Members are based or have an established subsidiary in North America. WCISA's mission is to promote its member's products and services by providing its members with representation, networking/social opportunities and services at wire and cable trade events and conferences. WCISA also offers a variety of scholarships. WCISA is active, both as an exhibitor and supporter, in wire and cable trade events and conferences throughout the world

To apply for membership, send the following information to WCISA at info@wcisaonline.org:

**Company Name, Contact Name & Title
Company Address, Phone & Fax
Web Site & E-Mail
Description of Products and Services
(around 50 words)**

Annual dues are US\$300 per company.
The WCISA Board of Directors reviews all membership applications.



Machinery and Equipment:

ANNEALERS AND HEAT TREATING EQUIPMENT

AITMAC, Inc.
Commission Brokers Inc.
Frigeco USA, Inc.
I.C.E. Wire Line Equipment
Mathiasen Machinery, Inc.
Niehoff Endex North America
QED Wire Lines, Inc.
RAD-CON
SAMP USA, Inc.
Wire & Plastic Machinery Corp.

BRAIDING MACHINES

Commission Brokers Inc.
Fine International
Mathiasen Machinery, Inc.
Niehoff Endex North America
Stolberger Inc.
DBA Wardwell Braiding Co.
Wire & Plastic Machinery Corp.

CAPSTANS, DANCERS, ACCUMULATORS, PREHEATERS

AW Machinery LLC
Amaral Automation Associates
American Kuhne
Bartell Machinery Systems, LLC
Beta LaserMike
Calmec Precision Limited
Commission Brokers Inc.
Davis-Standard, LLC
Fenn Metal Forming Machinery
Fine International
Frigeco USA, Inc.

Hall Industries/MGS Manufacturing
Huestis Industrial
Kalmark Integrated Systems Ltd.
MGS Manufacturing/Hall Industries
Niehoff Endex North America
Roteq Machinery Inc.
Royle Systems Group
SAMP USA, Inc.
Tensor Machinery
Wire & Plastic Machinery Corp.
Zumbach Electronics Corp.

COMPOUNDING MAKING EQUIPMENT

Amaral Automation Associates
Davis-Standard, LLC
Wire & Plastic Machinery Corp.

DESCALING MACHINES

Mathiasen Machinery, Inc.
Wire Lab Co.

ELECTRON BEAM CROSSLINKING EQUIPMENT

Wasik Associates, Inc.

EXTRUSION EQUIPMENT AND LINES

Amaral Automation Associates
American Kuhne
AW Machinery LLC
Commission Brokers Inc.
Davis-Standard, LLC
FACTS, Inc.
Fine International
Frigeco USA, Inc.
Mathiasen Machinery, Inc.

Royle Systems Group
SAMP USA, Inc.
SIKORA International Corporation
Tensor Machinery
Wire & Plastic Machinery Corp.

FIBER OPTIC CABLE AND OPTICAL FIBER MANUFACTURING EQUIPMENT

Amaral Automation Associates
American Kuhne
AW Machinery LLC
Calmec Precision Limited
Commission Brokers Inc.
Davis-Standard, LLC
FACTS, Inc.
Fine International
Hall Industries/MGS Manufacturing
Kalmark Integrated Systems Ltd.
Mathiasen Machinery, Inc.
MGS Manufacturing/Hall Industries
Miltec UV
Roblon US Inc.
Roteq Machinery Inc.
Royle Systems Group
SIKORA International Corporation
Tensor Machinery
Wire & Plastic Machinery Corp.

MARKING AND PRINTING MACHINES

Commission Brokers Inc.
Gem Gravure
Leibinger, Inc., Paul
Mathiasen Machinery, Inc.
Taymer International Inc.
W. Gillies Technologies, LLC
Wire & Plastic Machinery Corp.

PAYOFFS AND TAKEUPS

AIM, Inc.
AITMAC, Inc.
Amacoil, Inc.
Amaral Automation Associates
American Kuhne
AW Machinery LLC
Bartell Machinery Systems, LLC
Calmec Precision Limited
Commission Brokers Inc.
Davis-Standard, LLC
Fine International
Frigeo USA, Inc.
Hall Industries/MGS Manufacturing
Huestis Industrial
I.C.E. Wire Line Equipment
Kalmark Integrated Systems Ltd.
Kinrei of America, L.L.C.
Magnetic Technologies Ltd.
Mathiasen Machinery, Inc.
MGS Manufacturing/Hall Industries
Niehoff Endex North America
Roblon US Inc.
Roteq Machinery Inc.
Royle Systems Group
SAMP USA, Inc.
SIMPACKS
Stolberger Inc.
DBA Wardwell Braiding Co.
Taymer International Inc.
Tensor Machinery
REELEX Packaging Solutions, Inc
Wire & Plastic Machinery Corp.
Witels Albert, USA, Ltd.

Continued...

PLATING, GALVANIZING, ETC., LINES

I.C.E. Wire Line Equipment
Kinrei of America, L.L.C.
Mathiasen Machinery, Inc.
Niehoff Endex North America
Precision Process, Inc.
QED Wire Lines, Inc.
SAMP USA, Inc.

RESPOOLERS

AITMAC, Inc.
Amacoil, Inc.
Amaral Automation Associates
AW Machinery LLC
Bartell Machinery Systems, LLC
Calmec Precision Limited
Commission Brokers Inc.
Davis-Standard, LLC
Fine International
Frigeco USA, Inc.
Hall Industries/MGS Manufacturing
Huestis Industrial
Kalmark Integrated Systems Ltd.
Kinrei of America, L.L.C.
Mathiasen Machinery, Inc.
MGS Manufacturing/Hall Industries
Niehoff Endex North America
Roblon US Inc.
Roteq Machinery Inc.
Royle Systems Group
SAMP USA, Inc.
Stolberger Inc.
DBA Wardwell Braiding Co.
Tensor Machinery
REELEX Packaging Solutions, Inc
SIMPACKS
Wire & Plastic Machinery Corp.

ROD CASTING

Southwire Company, SCR Technologies

ROTATING MACHINERY: BUNCHERS, CABLERS, STRANDERS, TWINNERS, ETC.

AITMAC, Inc.
Bartell Machinery Systems, LLC
Commission Brokers Inc.
Fine International
Frigeco USA, Inc.
Hall Industries/MGS Manufacturing
Kalmark Integrated Systems Ltd.
Kinrei of America, L.L.C.
Mathiasen Machinery, Inc.
MGS Manufacturing/Hall Industries
Niehoff Endex North America
Northhampton Machinery Co.
Roteq Machinery Inc.
SAMP USA, Inc.
Tensor Machinery
Wire & Plastic Machinery Corp.

SURFACE TREATMENT SYSTEMS: CLEANING, PICKLING, COATING, CHALKING, ETC.

EMD Performance Materials
I.C.E. Wire Line Equipment
Kinrei of America, L.L.C.
Mathiasen Machinery, Inc.
QED Wire Lines, Inc.
SAMP USA, Inc.
Wire Lab Co.

TAPE APPLICATORS, BINDERS, ARMORING, SERVING HEADS

Amaral Automation Associates
Calmec Precision Limited
Commission Brokers Inc.
Fine International
Frigeco USA, Inc.
Hall Industries/MGS Manufacturing
Kalmark Integrated Systems Ltd.
Mathiasen Machinery, Inc.
MGS Manufacturing/Hall Industries
Roblon US Inc.
Roteq Machinery Inc.
Tensor Machinery
Wire & Plastic Machinery Corp.

TURN KEY PRODUCTION SYSTEMS AND FACTORIES

Amaral Automation Associates
American Kuhne
AW Machinery LLC
Calmec Precision Limited
Commission Brokers Inc.
Davis-Standard, LLC
FACTS, Inc.
Fine International
Frigeco USA, Inc.
I.C.E. Wire Line Equipment
Mathiasen Machinery, Inc.
Niehoff Endex North America
Precision Process, Inc.
Roteq Machinery Inc.
Royle Systems Group
SAMP USA, Inc.
SIMPACKS
Southwire Company, SCR Technologies
Tensor Machinery
Wasik Associates, Inc.
Wire & Plastic Machinery Corp.

USED AND REBUILT EQUIPMENT

Amaral Automation Associates
Commission Brokers Inc.
Davis-Standard, LLC
Mathiasen Machinery, Inc.
Stolberger Inc.
DBA Wardwell Braiding Co.
Wire & Plastic Machinery Corp.

WIRE AND ROD DRAWING MACHINERY

AITMAC, Inc.
Commission Brokers Inc.
Frigeco USA, Inc.
Mathiasen Machinery, Inc.
Niehoff Endex North America
SAMP USA, Inc.
Wire & Plastic Machinery Corp.

WIRE BENDING, FORMING AND FABRICATING

AIM, Inc.
Huestis Industrial

Continued...

Accessories and Controls:

AIR WIPES

Amaral Automation Associates
Davis-Standard, LLC
Hall Industries/MGS Manufacturing
Huestis Industrial
KEIR Manufacturing
MGS Manufacturing/Hall Industries
Wire Lab Co.

ANNEALER BANDS, RINGS & HUBS

Frigeco USA, Inc.
Niehoff Endex North America
SAMP USA, Inc.
Western Engineered Products

BOWS FOR ROTATING MACHINES

AITMAC, Inc. Cortinovis America
KEIR Manufacturing
Kinrei of America, L.L.C.
Niagara Composites International Inc.
SAMP USA, Inc.

CABLE FILLING EQUIPMENT

Commission Brokers Inc.
Tensor Machinery

CABLE PACKAGING

Commission Brokers Inc.
Niehoff Endex North America
REELEX Packaging Solutions, Inc
SIMPACKS

DIES AND DIE MAKING EQUIPMENT

Balloffet Die Corp./USA
Die Quip Corp.
Fort Wayne Wire Die, Inc.
Heritage Wire Die Division of
Fuhrman Precision Services, Inc.
Kinrei of America, L.L.C.
Precision Die Technologies (PDT)

DRIVES, CONTROLS, MOTORS

Amaral Automation Associates
Davis-Standard, LLC
FACTS, Inc.

EXTRUSION CROSS HEADS AND TOOLING

Amaral Automation Associates
American Kuhne
Balloffet Die Corp./USA
B & H Tool Company
Cable and Tubing Solutions (CTS)
CEECO Bartell Products
Davis-Standard, LLC
Royle Systems Group
SAMP USA, Inc.
Wire & Plastic Machinery Corp.

GUIDES, PULLEYS, SHEAVES, ROLLERS, BELTS, ETC.

AITMAC, Inc.
Amacoil, Inc.
Amexstra, Inc.
AW Machinery LLC
CEMANCO
Davis-Standard, LLC
KEIR Manufacturing
Refractron Technologies Corp.
Sjogren Industries, Inc.
Tensor Machinery
Wire & Plastic Machinery Corp.
Witels Albert, USA, Ltd.

LUBRICANTS AND FILTRATION SYSTEMS

Aztech Lubricants LLC
Baum's Castorine Co., Inc.
Blachford Corporation
Condat Corp.
Slover Group, The
RichardsApex, Inc.

QUALITY CONTROL AND MEASUREMENT DEVICES

Amaral Automation Associates
American Kuhne
Calmec Precision Limited
Die Quip Corp.
FACTS, Inc.
Fiber Optic Center, Inc. (FOC) / Technical
Horsepower Consulting, LLC (THC)
INOEX LLC
LaserLinc
NDC Technologies (BETA LaserMike
Products)

SIKORA International Corporation
Sjogren Industries, Inc.
Taymer International Inc.
Zumbach Electronics Corp.

REELS, SPOOLS, BASKETS

Ace Metal
AITMAC, Inc.
Carris Reels, Inc.
Commission Brokers Inc.
Fabritex, Inc.
Kinrei of America, L.L.C.
Madem-Moorecraft Reels, Inc.
P & R Specialty, Inc.
Pittsfield Plastics Engineering, LLC
Reel Options by Vandor Corporation
Sonoco Plastics
Sonoco Reels
Wire & Plastic Machinery Corp.

TENSION CONTROLS, BRAKES, CLUTCHES

Davis-Standard, LLC
Magnetic Technologies Ltd.
Sjogren Industries, Inc.
Quantum Design

TRAVERSES

AITMAC, Inc.
Amacoil, Inc.
Bartell Machinery Systems, LLC
CEMANCO
Clinton Instrument Co., Inc.

Continued...

WIRE AND CABLE HANDLING:
WELDING, POINTING, STRINGING,
SWAGING, ETC.

AITMAC, Inc.
Amaral Automation Associates
Commission Brokers Inc.
Huestis Industrial
Joe Snee Associates, Inc.
Wire & Plastic Machinery Corp.

WIRE AND CABLE HANDLING:
CUTTING, CUTOFF, STRIPPING, ETC.

AITMAC, Inc.
Amaral Automation Associates
CEMANCO
Commission Brokers Inc.
Huestis Industrial
Kinrei of America, L.L.C.
Tensor Machinery
Wire & Plastic Machinery Corp.

WIRE AND CABLE HANDLING:
STRAIGHTENING

AITMAC, Inc.
CEMANCO
Sjogren Industries, Inc.
Witels Albert, USA, Ltd.

Materials:

CONDUCTORS AND WIRES:
NONFERROUS

Accel International
Cable Components Group
M. Holland Company
Sark-USA, Inc.
SDI LaFarga, LLC

FILLERS

Cable Components Group
Chase Corporation
Conneaut Industries, Inc.
M. Holland Company
Roblon US Inc.

INSULATION AND JACKET/
SHEATHING COMPOUNDS
AND COLORANTS

AGC Chemicals Americas, Inc.
Alphagary
Arkema, Inc.
Arya Chem Inc.
Cable Components Group
Colorant Chromatics/Avient
Dyna-Mix Custom Rubber Mixing
M. Holland Company
Nylon Corporation of America (NYCOA)
Teknor Apex Co.

PRINTING/MARKING MATERIALS: FOILS, RIBBONS, INKS

Gem Gravure
Leibinger, Inc., Paul
W. Gillies Technologies, LLC

STRENGTH MEMBERS Cable Components Group Chase Corporation

TAPES
Cable Components Group
Chase Corporation
Conneaut Industries, Inc.
LLFLEX
M. Holland Company

TESTING LABS

Fiber Optic Center, Inc. (FOC) / Technical
Horsepower Consulting, LLC (THC)
SGS North America, Inc.

YARNS AND BINDERS

Cable Components Group
Chase Corporation
Coats North America
Conneaut Industries, Inc.
EY Technologies



WCISA® Scholarship Program



WCISA®
Wire and Cable Industry
Suppliers Association®

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2. **WCISA High School Graduate Scholarship** for high school graduates with a parent or grandparent working at a WCISA member company. One or more awards per year. Applicants must be a high school graduate enrolled in a college or university in the fall of the application year. Any planned field of study is acceptable. Applications are due from students or parents/grandparents at WCISA member companies by July 31 of each year.
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WCISA® Member Benefits



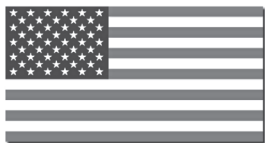
WCISA®
Wire and Cable Industry
Suppliers Association®

1. **COMPANY AND PRODUCT PROMOTION:** WCISA Member Directory and Product Guide published annually and distributed worldwide at trade shows and conferences in North America, Europe and Asia. WCISA web site, www.wcisaonline.org, containing member company and product information and hotlinks to member's e-mails and web sites. WCISA press releases published in wire and cable media outlets.
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**WCISA®***Wire and Cable Industry
Suppliers Association®*

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WCISA®
*Wire and Cable Industry
Suppliers Association®*

1. **COMPANY AND PRODUCT PROMOTION:** WCISA Member Directory and Product Guide: published annually and distributed worldwide at trade shows and conferences in North America, Europe and Asia. WCISA web site, www.wcisaonline.org, containing member company and product information and hotlinks to member's e-mails and web sites. WCISA press releases published in wire and cable media outlets.
2. **REPRESENTATION AT TRADE SHOWS AND CONFERENCES:** WCISA exhibit booths. Literature distribution at shows. Pavilion sponsorships. Show services. Hospitality Events.
3. **NETWORKING AND SOCIAL OUTING OPPORTUNITIES:** At exhibitions and conferences.
4. **SCHOLARSHIPS FOR WCISA MEMBER COMPANIES:** Employees, Interns, High School Graduates, Special Circumstances.
5. **PARTNERSHIPS & DIALOGS WITH INDUSTRY ASSOCIATIONS AND EVENT ORGANIZERS:** IWCS, IWMA, MESSE DÜSSELDORF (GERMANY & NORTH AMERICA), WAI.
6. **A UNIFIED VOICE & SUPPORT OF NORTH AMERICAN SUPPLIERS**

**SUPPORT THE INDUSTRY, YOUR COMPANY AND
YOUR FELLOW NORTH AMERICAN SUPPLIERS
IN THE WORLDWIDE MARKETPLACE**

www.wcisaonline.org • info@wcisaonline.org

WCISA® member companies are North American-based suppliers of machinery, materials and accessories for making all types of wire and cable. Annual Dues: \$300/company
Established in 1996, WCISA is a nonprofit trade association.

2023 Industry Events Supported by WCISA®

May 9 – 11, 2023
Interwire 2023
Atlanta, GA, USA
www.interwire23.com



May 24 – 27, 2023
wire Eurasia 2023
Istanbul, Turkey
www.wire-eurasia.com



September 2 – 4, 2023
wire Middle East Africa
Cairo, Egypt
www.wire-mea.com



September 4 – 7, 2023
wire China, Shanghai, China
www.wirechina.net



September 17 – 20, 2023
2023 IWCS Cable &
Connectivity Industry Forum
Orlando, FL, USA
www.iwcs.org



September 20 – 22, 2023
wire Southeast Asia 2023
Bangkok, Thailand
www.wire-southeastasia.com



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