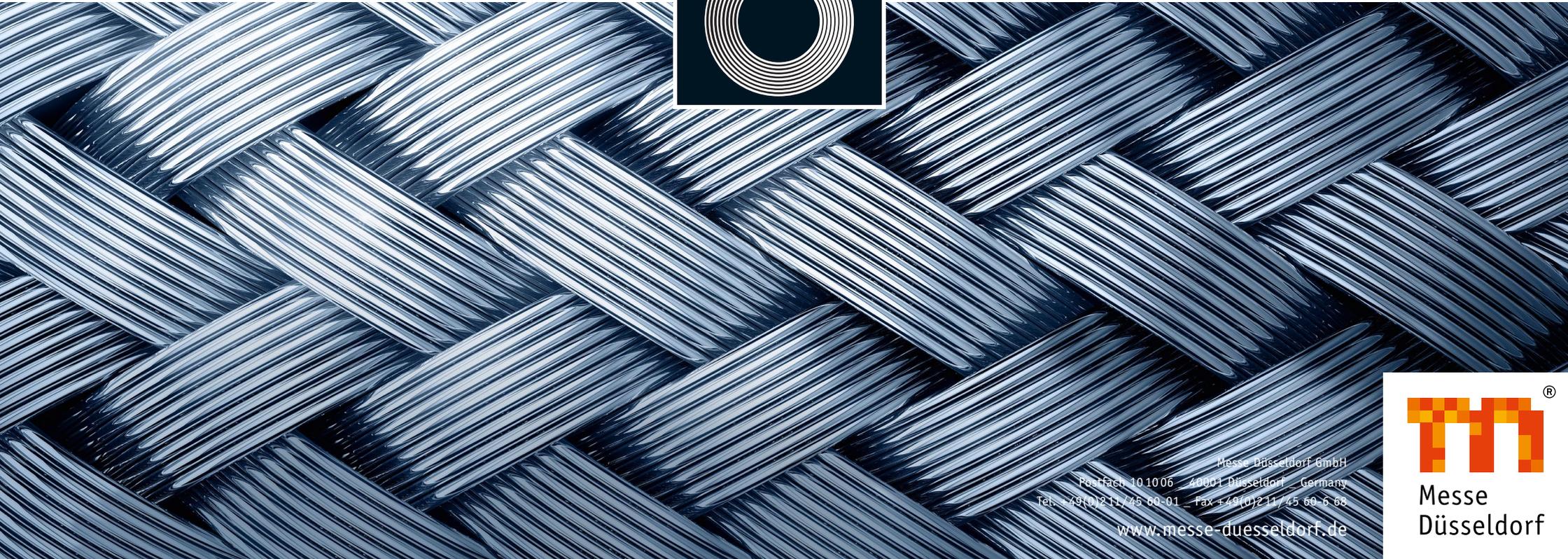


# join the best: 4-8 April 2016

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## MyCatalog 2016



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## Exhibitors

### AIM, Inc.



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Internet address	www.aimmachines.com
E-Mail	sales@aimmachines.com
Stand	Hall 11, A21



### CNC Wire bending machines and accessories

#### Company Profile:

AIM, Inc. manufactures CNC steel wire bending equipment. The company was incorporated back in 1992 in Chicago, Illinois. The first product line was the AccuSpiral, a CNC wire forming machine used for production of spiral shapes primarily for HVAC fan guards. Since then, AIM has moved to Addison, Illinois and grown its product line to 35 models of 2 dimensional and 3 dimensional CNC wire benders.

AIM Europe S.A. was incorporated in 2000 in Athens Greece, has full Sales and support capabilities. In coordination with AIM, Inc. we provide full 16 hours of support worldwide, daily.

With technical sales representation in the U.S., South America, Canada, Mexico, Europe, Asia, Africa, Australia and India, AIM is seeing unprecedented growth and acceptance of its entire line of equipment. Contributing factors to this growth include having the fastest machine forming speeds in the market, the most user



friendly programming and a reputation for the best technical support.

Mission Statement:

"TOTAL CUSTOMER SATISFACTION"

AIM's mission is to provide total customer satisfaction by serving the manufacturing industry honorably and providing products and services of superior quality at a fair price.

AIM consistently puts customer interest first and continually improves its products, offering the best value in CNC wire bending equipment.

Markets Served:

AIM provides equipment to wire fabricators or manufacturers who form wire as components for their own product lines. Our equipment is used to support automotive, medical, point-of-purchase displays, appliances, food service, HVAC, storage, material handling and other OEM applications.

Products:

The majority of our products are available for wire diameters from 2mm (0.080") up to 16mm (0.625"). All models are available with the standard, single stage bend tooling or Turret Head indexing tool changer for multiple bend radii capability. AccuForm Ultra Line high-speed benders perform at speeds equal to or exceeding four-slide machines and are available in both 2D and 3D versions. A double head bender line serves primarily the automotive industry for larger size products.

Optional accessories include automatic butt-welding, parts transfer system, in-line chamfering, end forming, threading, flatten & pierce units, wire payoff systems, two-plane straighteners and the latest in technology vision inspection systems. Aim is also an authorized FANUC® integrator and provides complete automation cells for the wire industry.

Some of the outstanding features of our equipment:

- All of AIM's equipment feature very simple programming with a graphical machine simulation that allows the user to watch a machine simulation generate a part on the screen and prevent damage with the built-in collision detection feature, without having to run any production.
- Windows® XP Professional® and Multilanguage support
- DXF and optional Step file CAD file importation



- Automatic move optimization to reduce cycle times
- Modular design for easy and affordable upgrades depending on production needs
- pre-defined tool geometry setup files and quick change tooling,
- video conferencing and "Dial-A-Service" allows remote access to any machine worldwide, via phone or high-speed Internet
- advanced servo positioning technology allows for high operating speeds with exceptional accuracy and repeatability in the final product.
- A notable advancement in the AccuForm 3D series is the improved "Infinity" arm - with unlimited rotation, designed for flexibility without sacrificing performance.
- Most of AIM's products carry two-year limited parts and labor warranty, the most comprehensive in the industry.

Your solution for:

- Space and skilled labor savings
- Reduced product costs
- Fast prototypes
- Easy Setup
- Production flexibility
- Reduced inventory
- Just In Time Production
- Product Reliability & Quality

Association Membership:

- AWS American Welding Society
- IWMA International Wire Manufacturers Association
- MANA Manufacturers' Agents National Association
- NFPA National Fire Protection Association
- WAI Wire Association International
- WCISA Wire and Cable Industry Suppliers Association
- WFA Wire Fabricators Association

## Product Overview

AIM, Inc.

wire.01.06.07 Bending

## Product Details

AIM, Inc.

wire.01.06.07 Bending

### AccuForm T-Welder (cross Wire welder) TWx



AIM T-Welder models are organized by wire size/capacity as shown below: Model # Metric (mm.) S.A.E. (inch)  
TW6 / TW6a 2.0 – 6.35 0.079” – 0.250” TW10 / TW10a  
4.0 – 10.0 0.157” – 0.394” Each AccuForm T-Welder

Series machine currently has 2 fully programmable motion axes. These machines have a frame hopper and for the cross wires, they take wire directly from coil, straighten it, and cut it to manufacture T-Welded frames (also called cross wire welded frames) used for filter, refrigerator, shelving, store fixture, display, oven or grill frames to name a few. These products can be designed with the use of AIM's exclusive software package. SmartEditor® which provides flexibility and simplicity in setup. Programming is quick and easy. All you need is to enter the cross wire length and the location(s) of the T-welds and begin production! AIM uses the world's preeminent servo system. The smallest wire feeder resolution is 45 encoder pulses per millimeter and the resolution of the carriage is 225 encoder pulses per mm. The published servo controller accuracy is  $\pm 1$  pulse, and the length accuracy is  $\pm 0.25$  millimeters ( $\pm 0.0095$ ”). This accuracy supplied allows wire and tooling tolerance calculation and points out the wire inconsistency effect. The better the wire supplied, the better the output product will be. Accuracy and repeatability of AIM machines are exceptional. Parabolic and S-curve positioning profiles give smoother acceleration and deceleration minimizing shape distortion while achieving higher speeds at minimum possible power usage. The standard models grant to the AIM equipment the title of the highest working speeds in the market. Using V-groove rollers, you can run more than one wire diameter per groove and by using two V-grooves per roller, wire capacity doubles. Power transmission is through high torque, precision drive belts and in some cases, high precision planetary gearboxes; NO adjustments needed. Quick and easy wire diameter changeover is a standard system feature.

### AFCxD



The AFC in the model number stands for “AccuForm Compact” meaning the machine configuration is compact. The basic version of the AFC-x line has a feeder module and a bender module. Each module provides its own operation, yet all modules are controlled and synchronized from the same computer system. On the AFC-x line, the computer system mounts with the bender module.

Each AccuForm compact CNC wire bending machine can currently have up to 3 motion axes, depending on the machine configuration. These machines take wire directly from coil, straighten it, bend it, and cut it to create wire products designed with the use of AIM's exclusive software package. SmartEditor® provides flexibility and simplicity in setup. Programming is quick and easy. All you need is to enter the lengths and angles of your product, view the design, edit if necessary, and begin production!

### AFE-xDHx



The AFE-xDHx line of equipment is designed with the old four-slide technology in mind but without the time consuming intricate setups, costly tooling, and the need for an expert operator. The DH in the model number stands for “Double Head” which means the machine has two individual bending heads. Each bending head positions along a straight wire and bends it according to pre-programmed data. The user manually sets a straight pre-cut wire to the bender or a wire feeder module (option) automatically feeds the wire through a straightener and cuts the wire to user pre-defined lengths. A hopper mechanism can place straight & cut wire pieces direct to the two benders. An automatic gripper (3D option) can rotate and hold the straight wire during a bend operation. After the part is complete, it can eject to a part holder or an optional robotic “Pick & Place” arm.

The AFE-xDHx machine has four (4) independent coordinate systems.

- 1) The Feeder / Hopper coordinate
- 2) The Left Bender and Slide coordinate
- 3) The Right Bender and Slide coordinate
- 4) The Rotation Clamp coordinate (on the 3-dimensional models)

Since all coordinate systems operate independently, they can all work simultaneously, synchronized by the Rotation Clamp coordinate. Even with the complicated DH configuration, the AIM SmartEditor® software generates the algorithms needed by the machine controller automatically. The AIM DH machine has built-in algorithms that build the complex motion algorithms!

The AIM user simply enters lengths and angles that comprise the desired part and SmartEditor® does all the rest. However, even the most advanced users can control the exact steps of the equipment, for instance where an intricate part operation requires absolute coordinate programming.

The basic AccuForm E-Series Double Head line configuration includes two benders mounted on two slides and a stationary center clamp. On the basic configuration, the user manually sets a straight (pre-cut) wire for the bend operation adjusting the wire cutter location which could be guided from the benders. Bending Heads

Each Bending head can be programmed to provide 6 moves and directions:

- 1) Left and right, positioning parallel to the wire, locating the position of a bend
- 2) Clockwise and counter-clockwise to bend the wire
- 3) Up or down (recessing for clearance between bends)
- 4) Bending head 2nd stage up or down allowing selection of two different sets of bending tools
- 5) Bending head wire clamp rotation (extend or retract), helping guide the wire while bending. When distances are critical, the bending head can be programmed to hold the wire and move it, allowing for smaller bend to bend distance.
- 6) Bending head wire guide up or down, programmable for flexibility and even smaller bend to bend distances

#### WC6 Wire cleaner

Wire Cleaning System – WC6 The WC6 utilizes multiple methods of inline wire cleaning to

combat the combination coatings on the wire.

The WC6 includes inline wiping, rotary brushes, and specialized detergents to ensure that the cleanest wire is passed through the machine prior to forming.

In addition, the detergents are recycled and reused within the WC6 making it a true standalone system.

Not only does the WC6's standalone configuration allow relatively easy move-

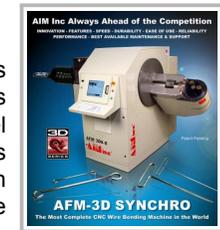


ment within the factory,

but the WC6 has the ability to be placed before any wire forming or straightening system.

#### Wire bending machine

A CNC machine that has the MOST bending capabilities from all existing machines. The bending system consists of a combination of a turret and two planetary mandrel benders that can act as bending pins or mandrel benders for a total of 8 x 4 (=32) bending combinations! Watch it making double centered eye-loops! The most versatile machine available in the WORLD. AMAZING!



The AccuForm Modular Series machine joins our “Synchro Technology” providing a refined bender with an expandable base. Versatility, Flexibility and Modular Frame construction provides you with an unparalleled CNC 3D Wire Former, brought to you by the pioneers in modularity of wire forming equipment.

#### Multiple Mandrel Indexing Bending Head

All AFM 3D S Benders come with the Synchro Head bender design. The Patented Synchro Head is not only the most unique but most versatile bending head on the market. Synchro technology is a hybrid configuration of our Turret head coupled with three rotary satellite benders! This enables the end user to have their choice of turret forming, rotary mandrel forming or both. Press brake style bends, perfectly round eye-loops, off plane bending, programmable tool configurations, tube forming, the capabilities of the Synchro design are endless. In addition, the forming pins can be easily replaced as needed. The multi-mandrel tool cluster holds round pins, roller tools, and sharp bend dies... all of which are user replaceable. The slide action cutter provides burr-free square cuts and is capable of a “zero length” cut-off. In addition, one of the benders can be equipped with cutting tools for smaller wires, eliminating the need to reverse the feed in order to cut.

#### Expandability – Versatility

All 3D benders can be expanded by simply separating and inserting the appropriate modules. Adding modules for inline secondary operations such as chamfering, threading, undercutting and flattening can extend the versatility of your AccuForm Synchro machine. Stand-alone floor mounted units are available for chamfering, threading, ball-end radius and cold heading. Robotics or Multi axes pick and place units can automatically transfer formed parts to secondary machine operations.



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### Wire Bending Made Easy

The AccuForm modular line of 2D & 3D programmable CNC steel wire benders make virtually any kind of simple or complex parts from round and profiled wire. Using AIM's SmartEditor® program, a variety of different shapes can easily be designed.

SmartCode can be used for standard shapes such as rings, polygons and spirals by simply entering the desired lengths, number of sides or diameters.

DXF files can be imported from your CAD system. Animation Simulation shows the part being formed before production begins allowing changes to be made prior to machine operation. "Dial-a-Service" allows access to any machine worldwide via internet allowing diagnostics to be performed within minutes.

The AFM 3D S Series is backed by a two-year limited Parts and Labor Warranty, the most comprehensive in the market.

## Ajax Tocco Magnethermic Corporation



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Fax	+1 330 3728608
Internet address	www.ajaxtocco.com
E-Mail	sales@ajaxtocco.com
Stand	Hall 06, A42



### About Our Company

Ajax TOCCO Magnethermic has worldwide operations in nine countries. In North America, we have manufacturing facilities in two major locations as well as eight regional service centers. Ajax TOCCO is one of the few induction equip-



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ment manufacturers that maintains a full-time research and development program. We design and build all of our power supplies and as a result, are able to supply our customers with the latest technology available. Our 600 domestic and international employees give us the ability to handle large orders or volume increases while maintaining our commitment to quality, service and delivery.

### Quality

Ajax TOCCO is committed to quality in the design, manufacturing, building and support of our equipment. We received our ISO 9001 certification February 20, 1997. Feed back from our customers is used to improve our equipment and product lines.

Quality Policy: Ajax Tocco Magnethermic is dedicated to being the World Leader in Induction Melting and Heating Equipment and Associated Services through continuous improvement efforts and constantly "Raising the Bar" on the performance level of all aspects of the business.

Additionally, Ajax Tocco Magnethermic is committed to providing Quality and Value in its products and services that meet or exceed customer expectations. All employees are expected to share this commitment and have the authority and responsibility to prevent delivery of any product that does not meet the Quality Expectations defined in this Policy.

### Customer Commitment

Weekly heating follow up meetings with field service, engineering, sales, and management, to address customer issues, plan action, and timing of solutions. The above is reported to our president. Ajax TOCCO is serious about our commitment and support to our customers.

### Service

Technical assistance is available any time of the day or night using our 24-hour hot line. Our experienced service team is strategically located to provide quick response to our customers wherever they are located.

### Spare Parts

Ajax TOCCO offers an extensive computerized inventory of factory certified replacement parts for our induction heating and melting equipment to assure quick turn around. We also offer replacement parts for all other makes of induction equipment. Our commitment to customer support means Ajax TOCCO is available to handle emergencies any time of the day, any day of the week.



### Delivery

Ajax TOCCO has the engineering staff, materials sourcing, manufacturing capacity, test facilities, floor space, startup service and technical support to provide you with timely delivery. We have full system testing and a metallurgical lab both in our Boaz, Alabama facility and our Warren, Ohio facility.

### Training

Ajax TOCCO provides a wide variety of schools for customers since the early 1970's. These include regularly scheduled formal schools at either of our plants in Warren Ohio or Boaz, Alabama or we can arrange for formal or informal instruction at your facility. Training of your personnel usually begins with equipment runoff and startup; formal maintenance training is usually scheduled some-time after the equipment has been in operation.

### Exhibitor profile

Ajax Tocco Magnethermic Corporation

Number of employees	100-499
Business volume	–
Export quota	–
Founding year	1916
Business segment	Tube manufacturing machinery, Rebuilt and Reconditioned Machinery, Process technology tools and auxiliaries



### Company Contacts

Ajax Tocco Magnethermic Corporation

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### Company News

Ajax Tocco Magnethermic Corporation

#### 01/07/2016 Ajax TOCCO Magnethermic ~The Global Leader in Induction Heating for Tubular Products

Ajax TOCCO Magnethermic is at the forefront in developing induction heating technology for tubular products. Since 1916, Ajax TOCCO has taught the world how to use induction heating. From simple applications, to pioneering the use of induction quench and temper lines for heat treating API grades of pipe, Ajax TOCCO supplies leading-edge technology solutions for the tubular products industries.

Ajax TOCCO's unique approach to applying induction heating has solved a wide



variety of difficult problems. Pipe and tube producers have benefited from Ajax TOCCO's unequalled experience in supplying everything from billet heaters for seamless tube extrusion to developing weld annealing, coupler heat treating, and normalizing tool joints, to precise pipe coating.

The recent addition of EMMEDI into the Ajax TOCCO Magnethermic group offers a brand that has been focused on tube welding as well as heat treating for over fifty years.

PMC Colinet and PINES, also in the Ajax TOCCO Magnethermic group, provide pipe threading machines. The newly combined efforts of the Ajax TOCCO technical leadership team can now help pipe and tube producers improve quality, increase production and lower costs to meet tough market demands in even more processing areas. The Ajax TOCCO Magnethermic family is ready to put this experience to work for you! Combining our technical leaders in pipe and tube heating, welding, threading and bending confirms the commitment of the Ajax TOCCO Magnethermic family to the worldwide pipe and tube industry.

Along with providing the pipe and tube industry with reliable equipment, our customers benefit from the resources of the Ajax TOCCO Magnethermic global organization. We provide worldwide assistance through our network of regional sales and service engineers. Our experienced service team is strategically placed for quick response to customers wherever they are located!

Isn't it time you called upon the team of people who know induction heating, welding, threading and bending the best? The people committed to providing best in class equipment and services to the pipe and tube industry . . . Ajax TOCCO Magnethermic Corporation.

**Product Overview** Ajax Tocco Magnethermic Corporation

tube.02.03.02	Tube welding equipment
tube.02.04.01	Drying and heating furnaces
tube.02.04.03	Tempering furnaces and systems
tube.02.04.05	Melting furnaces



tube.02.04.07	Induction annealing furnaces
tube.02.04.11	Heat treatment/Process and equipment
tube.02.05.05	Upsetting, beading, compressing
tube.02.05.09	Hardening, annealing, tempering
tube.02.05.13	Galvanizing, cladding (with zinc, tin, copper, bronze etc.)
tube.02.05.18	Coating (with plastic, insulating material etc.)
tube.03.01	Casting and forging
tube.03.02	Drawing, extruding, rolling
tube.09.01.01	Machinery and equipment
tube.09.03	Surface coating

**Product Details** Ajax Tocco Magnethermic Corporation

tube.02.04.01	Drying and heating furnaces
---------------	-----------------------------

**Solution Heat-Treat Furnace**

The furnace shown is an example of an ALUMINUM SOLUTION HEAT TREAT FURNACE. Rated at 1200° F, in this application, this furnace processes 9000 lbs. of aluminum per hour. It is a gas fired, 3 zone, 2 drive, 4 lane furnace, with an indexing conveyor, and a custom heater box arrangement. Because of the customer's floor space, and headroom limitations, (2) two of the heater boxes are mounted on the top of the furnace, while (1) one of the heater boxes is mounted on the side. This furnace was optioned with a quench tank, variable frequency conveyor drives, and a PLC. The approximate dimensions of this furnace are 80 feet long X 22 feet wide X 19 feet high. These dimensions can be reconfigured to fit into your facility. This type of furnace can be either gas or electric,



and a broad range of handling and processing options are available. Specifications: TEMPERATURE RANGE • 1025°F (552°C) operating temperature, 1200°F (649°C) maximum temperature OVERALL SIZE (approximate - oven only) • 80' long x 22' wide x 19' high HEAT SOURCE • Natural Gas HEATING CAPACITY • 6,000,000 BTUH ( 3 burners) PRODUCTION RATE • 9,000 lbs. of aluminum per hour TOTAL NOMINALWORKSPACE • 988 cubic feet (9'- 5" x 70' x 18") AIR DISTRIBUTION TYPE • Convection - top down AIR CHANGES • 25+ per minute NUMBER OF ZONES • (3) three

tube.02.04.03

Tempering furnaces and systems

**Coating Cure Oven**

This is an ELECTRICALLY HEATED COATING CURE OVEN. Precision temperature control through five zones of process to achieve time and temperature characteristics of "High Tech" coatings on ceramic substrates is carried out on a 38 inch wide continuous belt. The oven interior is gas tight welded stainless steel. Process goes to 500° C with maximum 8000 pounds per hour load. Parts are cooled, on the same continuous belt, to less than 75° C in only seven feet of travel. The system is PLC controlled. Due to critical specs on the process this oven is completely "product" tested in our plant prior to shipping. Overall dimensions are approximately 60 ft. long x 16 ft. wide x 14 ft. high, including work platforms and ladders.



Specifications:

TEMPERATURE RANGE • 932°F (500°C) operating temperature, 1000°F (538°C) maximum temperature

OVERALL SIZE (approximate - oven only) • 48' long x 12' wide x 17' high

HEAT SOURCE • Electricity

HEATING CAPACITY • 1.6 Mw (1,600,000 watt) total of 5 heaters

PRODUCTION RATE • 8000 lbs. of solids/60 lbs. of water per hour

TOTAL NOMINALWORKSPACE • 94 cubic feet (33'- 11" x 3'- 2" x 10.5")

AIR DISTRIBUTION TYPE • Convection - bottom up

AIR CHANGES • 50+ per minute

NUMBER OF ZONES • (5) five

INSULATION CONSTRUCTION • 6-8 inch layered Kaowool, and mineral fiber

tube.02.04.05

Melting furnaces

**Induction Melting & Holding Furnaces**

Ajax TOCCO and Pillar Brand Names

Advanced induction melting technology allowing our customers to maintain a competitive edge in today's worldwide market.



Pacer Power The Ajax Tocco Pacer power supply has the ability to melt a wide range of alloys at maximum power without tap changes or capacitor switching. Pacer is the only solid state power supply that utilizes fiber optics to extend component life. Efficiency remains high at all power levels. The Pacer is available in sizes to 16000 kW.

Jet Flow Inductors As the world leader in channel furnace technology, Ajax Tocco continues to refine the design of the world famous Jet Flow inductor. Ajax Tocco has not only broken the 8000 kW barrier, but can also point to the successful start up of the largest channel furnaces in the world.

Melt Control Systems The Magne-Com melt control system enhances the overall melt system making furnace start up, daily melting, and maintenance simpler. This system can also provide access to valuable process information, alarm management, trouble shooting, data logging, trending, and report generation.

tube.02.04.07

Induction annealing furnaces

**Seam Weld Annealing**

Ajax TOCCO Magnethermic seam weld annealing for ERW pipe easily fits into a production line. It is compact and features easy positioning, positive inductor locating and fast installation into today's pipe mills.



A range of technologies allows more effective annealing of thicker wall tubes.

### Induction Solution Annealing

#### Solution Anneal

Solution anneal heat treatment is used to restore both corrosion resistance and ductility to hot worked tubing. An Ajax TOCCO Magnethermic system provides controlled heating and cooling to dissolve carbides and control grain growth.



### Pipe Austenise and Temper

#### Pipe Heat Quench and Temper Line 15.03.2012

Ajax TOCCO Magnethermic pipe heating lines are known industry wide for producing superior metallurgical and physical properties in the final product. These benefits are achieved with the fast heating rates and temperature control possible only with induction heating.



Seamless and E.R.W. pipe and casing is hardened and tempered at production rates up to typically 120 tons per hour.

Systems are specified to fit customers particular requirements.

### Ajax-CECO A Park Ohio Company

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Stand	Hall 06, A42



#### Firmenportrait

Ajax-CECO, A ParkOhio Company

BUILDING WORLD CLASS FORGING MACHINERY SINCE 1875

AJAX Forging Presses, Tube Upsetters, Forging Machines,  
 Wire Drawers, Trim Presses as well as CHAMBERSBURG  
 Impacters, Die Forgers, Programmable Hammers



**Company Contacts**

Ajax-CECO A Park Ohio Company

**Department/Name      Address**

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**Product Overview**

Ajax-CECO A Park Ohio Company

tube.02.01.04      Forging

tube.02.05.05      Upsetting, beading, compressing

**Product Details**

Ajax-CECO A Park Ohio Company

tube.02.01.04      Forging

**Forging Machines & Automated Upsetters**

Ajax, the leader in modern forging machines, has pioneered in the design and manufacture of forging equipment since 1875. Ajax introduced the first general purpose forging machine and continues its leadership by building advanced forging machines that maximize productivity and minimize part cost. The Ajax line of equipment includes forging ma-



chines ranging from 2 to 10 inch capacity and tube upsetters in popular sizes. Forging machines can also be equipped with a variety of transfer mechanisms to produce many parts automatically.

**Forging Presses**



The Ajax Manufacturing Company has designed, engineered and manufactured advanced types of forging equipment for over 100 years, and since the 1930's when forging presses were initially introduced into its range of forging equipment, Ajax has constantly reviewed and improved its original design features to encompass all the latest design innovations and high tech options that a modern forging press requires to be as efficient as possible for the large scale production of steel and alloy forgings. Based upon a one piece solid cast steel stress relieved frame, and well engineered drive and control mechanism, the Ajax High Speed Forging Press offers to its user, a powerful, rigid and fast operating machine for the production of accurate warm and near net shape components, as well as conventional hot forgings.

The Ajax Forging Press is offered as a back shafted or direct drive machine. Press designs can be modified to give higher torque, variable stroke speed, and longer forging and ejector strokes according to the work requirements.

Ever since the introduction of its first vertical forging press into the forging industry, and subsequently through its design advances of its Twin Pitman Forging Press and Wide Ram Four Point Suspension Press, Ajax's expertise has allowed its customers a choice of product that best suits their particular application. Adaptation of Programmable Controls and the latest electronic monitoring equipment, used in conjunction with first stage feeders and automatic transfer devices, provides a determination of production capability never before attained. Consequently, through its vast experience in the domestic and foreign forging markets Ajax has successfully maintained its reputation as a reliability leader in the forging industry, which has helped to make the Ajax Forging Press the valuable and economical forging tool it is today.

Ajax Forging Presses are built in sizes from 300 to 8000 Metric Tons.

tube.02.05.05      Upsetting, beading, compressing



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### Tube Upsetters

Tube upsetters are used to hot forge the ends of tubes. This increases the wall thickness to provide the machining stock and strength necessary for joining the tubes together. The configuration of the tube end may be classified as EXTERNAL UPSET, INTERNAL UPSET, or INTERNAL-EXTERNAL UPSET.



### Altman Technologies, Inc.

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Stand	Hall 09, D16-5

#### Who We Are

A team of experienced motivated professionals geared to the design and implementation of the most advanced plants for the wire industry. Our process technology and systems approach ensure that our customers will receive cutting-edge, world-class systems at an advantageous cost.

Our staff has vast experience from a variety of industries and diverse technology disciplines.

#### Product Overview

Altman Technologies, Inc.

wire.01.05.01 Pickling, blasting, scale removal by bending, cleaning, scale removal



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### Product Details

Altman Technologies, Inc.

wire.01.05.01 Pickling, blasting, scale removal by bending, cleaning, scale removal

### Batch Systems

Design and supply of batch pickling and coating systems for low carbon, high carbon, and cold heading rod and wire. Our plants feature the following innovations:

- Corrosion resistant construction for long, maintenance-free service.
- Vibration and liquid circulation systems for faster and more uniform processing.
- Integrated fume extraction and conditioned air make-up systems.<
- Utilization of advanced automation to provide for optimized operating sequences.



### Continuous Systems

Single and multi-strand high speed automated systems for heat-treating, cleaning, pickling, plating and coating of non-ferrous rod and wire, using industry-leading technologies. Innovations include:

- Advanced process design for flexibility in product speeds, diameter ranges, and coating weights.
- Electrolytic, chemical, and hot-dip coating systems.
- Integrated systems in conjunction with heat treatment and mechanical equipment suppliers.
- Environment friendly processes.
- Waste treatment and regeneration systems.
- Equipment fabrication and supply through a global network of qualified suppliers.





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### Technology

Design and Supply of specialized auxiliary and support equipment and services:

- Conceptual and detailed design utilizing multi-disciplinary in-house expertise and the latest available design tools.
- Complete planning assistance and on-site support for facilities preparation, equipment installation, utility connection, and system commissioning.
- Design and implementation of advanced open and closed loop plant cooling systems. Water levels, temperatures, and associated alarms are automatically controlled via the central plant PLC.
- Chemical recovery systems that are highly efficient, easy to operate, and require low maintenance.
- Ventilation and fume extraction options that are integrated into the production systems supplied.



### AMPAC International Inc.

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Stand	Hall 11, A02



#### About us

Ampac International, Inc. was established in 1994.



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 Internationale Fachmessen  
[www.wire.de](http://www.wire.de) / [www.Tube.de](http://www.Tube.de)

Since then, Ampac has become a worldwide leader in the design and manufacturing of Magnet/Enamelled Wire Testers . All of them meeting the NEMA, JIS, and IEC standards. Our design engineers have a total of over 30 years experience in designing and manufacturing magnet wire test equipment. This experience has led to the introductions of innovative designs.

#### NEW products

The Nova 1200 Tangent Delta Tester, new features.

The Nova 913 Dynamic Friction Tester that does both the Dynamic test as well as the Incline Plane CoF.

The Nova 100 series of Elongation Testers, all the testers now comes with options of Tensile Strength Curves and Digital Output.

These new products adds to the comprehensive and globally well known products range of wire testers from Ampac - <http://www.ampac-intl.com/testers.php>.

Ampac is committed to providing quality test equipments and services to the magnet wire industry and the industry future growth and advancement.

### Exhibitor profile

AMPAC International Inc.

Number of employees 1-19

Business volume 1-9 Mio US \$

Export quota > 75%

Founding year 1994

Business segment

### Product Overview

AMPAC International Inc.

wire.06.01.01 Destructive material testing

wire.06.03.04 Insulated Wire Cables

wire.06.05 Laboratory test equipment

### Product Details

AMPAC International Inc.

wire.06.05 Laboratory test equipment

#### Nova 1200 Tangent Delta Tester



The Nova 1200 Tangent Delta Tester measures TgD value of film insulated magnet wires. It is designed to produce accurate and reproducible Tangent Delta curves and values. TgD value indicates the degree of cure of the magnet wire insulation. These are the most essential properties of a Tangent Delta Test. It is only with good curves that one can optimize magnet wire quality, production out-put and product documentation. The NOVA 1200 Tangent Delta Tester has been designed with the following criteria:

High quality curves  
Ease of operation  
Quality test data and ease of data storage  
Simplicity in design resulting in lower start up cost  
Reliability resulting in lower maintenance cost.

#### Nova 2000 Windability Tester



The Nova 2000 Windability Tester performs a unique toughness test on magnet wire. The magnet wire is anchored between two directional wire mounting clamps under tension. The wire between the two clamps is then passed through the mandrel/high voltage guide sheaves assembly. The wire is then wrapped once around the mandrel. The mandrel is located between two sets of high voltage guide sheaves. When the test starts, the mandrel/high voltage guide sheaves assembly moves from one end of the tester to the opposite end repeatedly until the magnet wire fails. The wire being wrapped around the mandrel is stretched, resulting in the reduction of the cross section (diameter) of the wire. During the test, the insulation is subjected to a variety of stresses such as abrasion, flexibility, adhesion failure, etc. When the insulation fails, the fault detection circuit detects the faults. When 3 faults are detected, the numbers of stroke are counted. Low stroke count indicates the enamel is under-cured or over-cured, presence of pinholes, low toughness, etc. High strokes count indicates that the insulation is correctly cured with good toughness, abrasion resistance, flexibility, lubricity and adhesion.

#### Nova 913 Dynamic CoF and Incline Plane Static CoF



The Nova 913 Dynamic and Incline Plane Static Coefficient of Friction Tester perform the dynamic coefficient of friction (CoF) test according to the NEMA and IEC specification and the static CoF according to the IEC Incline Plane Method. This modular tester has both the dynamic CoF test system and the static CoF test system built into one chassis. For the Dynamic CoF, test data such as Average CoF, Minimum CoF, Maximum CoF, and Standard Deviation are displayed on the LCD screen for the Dynamic Friction test function. The dynamic CoF test system has magnet wire tensioning and straightening feature that ensures stable test data. Test wire sizes 0.05 mm to 2 mm. For the Static CoF, the motorized incline plane platform automatically increases in the incline angle until the sliding block starts to move. When the sliding block moved, it activates the optical sensor and stops the platform. The slip angle in tangent  $\theta$  is shown on the slip angle scale from 0° to 30°. The tangent  $\theta$  (static coefficient of friction value) is shown on the scale. The wire samples on the incline platform and the sliding block (for wire sizes 0.15 mm to 2 mm) are straightened to maximize accuracy and repeatability of the test's data. The coefficient of friction value is an indication of the magnet wire insulation lubricity. The lubricity of the insulation affects the spooling and windability of magnet wire into coils and its subsequent



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assembly into the finished products.

## AW Machinery LLC

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Stand	Hall 09, E10-2



### About Us

AW Machinery (AWM) is a North American manufacturer and integrator of machinery and control systems. Although our primary line of machinery is used in the manufacture of electrical wire, electrical cable and fiber optic coating, AWM also manufactures and produces equipment used in other applications including Tube and Hose manufacturing, rewinding applications, extrusion applications, etc.

AWM designs and fabricates electrical control systems used in its machines and for various other applications. Digital Touch Screen Control systems design & fabrication is a specialty of AW Machinery.



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In 2003, AWM purchased the engineering information (entire library of project files and designs) and inventory formerly owned by Viteck Inc. and now provides a complete line of equipment for both plastic insulating, and, continuous cure CV insulation of wires and cables from Fiber Optic through Power Cables. Machineries for other industries are also manufactured and supplied by AWM. Short deliveries for new machines, wire line systems, complete technical service and spare parts for both Viteck equipment presently in the field and AWM supplied equipment, is a specialty of AWM.

The current staff at AWM includes some former employees who worked both in the design engineering, production and service areas of the former Viteck, Inc., Videx Equipment Corporation and in various other industries.

AWM is an experienced manufacturer of complete extrusion lines and systems to meet the diverse requirements of the electrical wire and cable industry, such as:

- Telephone and LAN Cables
- Power Cable - CV Lines
- Optical Fiber Coating
- Building Wire
- Automotive Wire
- Appliance Wire
- Medical Tubing
- Special Cables



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AWM's experienced engineers will design your system utilizing high quality AWM equipment

combined with industry accepted components available from well established OEM suppliers

and commercially available products. The system will then be fully integrated with "state-of-

the-art" line controls which range from basic analog line control through fully computerized

line management systems with features such as data logging, SPC, trending, recipe

management, etc.

FLEXIBILITY IS THE "KEY" AT AW MACHINERY!!

**Exhibitor profile**

AW Machinery LLC

Number of employees 20-49

Business volume 1-9 Mio US \$

Export quota max. 50%

Founding year 2003

Business segment Raw materials, tubes and accessories



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**Product Overview**

AW Machinery LLC

wire.01.09.07 Cable extrusion machines

**Product Details**

AW Machinery LLC

wire.01.09.07 Cable extrusion machines

**Jacketing Extrusion Lines**



**Laboratory Extrusion Line**



**Primary Extrusion Lines**





## Aztech Lubricants LLC



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Stand	Hall 09, F06-2

### Aztech Lubricants

Aztech Lubricants LLC provides innovations to customers in the wire drawing industry, with an extensive line of wire drawing lubricants and supplies for metal forming processes. We are customer focused and offer vast technical expertise in formulating customized products to best suit your specific application

We are located in Wayne, Oklahoma, which is conveniently located to accommodate all modes of transportation for domestic and international shipping. Our new facility offers us the capabilities to maintain inventory on most of our products, giving us the ability to ship most customer orders the same or next day.

### Exhibitor profile

Aztech Lubricants LLC

Number of employees	1-19
Business volume	1-9 Mio US \$
Export quota	max. 25%
Founding year	2005
Business segment	Rebuilt and Reconditioned Machinery



### Company Contacts

Aztech Lubricants LLC

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### Product Overview

Aztech Lubricants LLC

wire.03.01.01	Oils, greases, lubricants
wire.03.01.02	Auxiliary drawing materials
wire.03.01.03	Process lubricants
wire.03.10.03	Protective agents

### Product Details

Aztech Lubricants LLC

wire.03.01.01	Oils, greases, lubricants
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#### EZDraw Vanishing Oils

##### EZDraw V33:

Is a special blend of low viscosity oils that is formulated for use on mild deforming, packaging and feed operations leaving a very light lubricant film that also aids in welding. EZDraw V33 is non-reactive to all metals and will evaporate leaving a very clean and dry wire surface.

##### EZDraw V40:

Is a special blend of low viscosity oils that has been formulated for use as a penetrating oil and water displacement oil to loosen frozen or rust parts. It can also be used as a light duty lubricant on mild deforming operations leaving a very light lubricant film. EZDraw V40 is non-reactive to all metals and will leave a clean wire surface.



#### EZDraw V75:

Is a special blend of low viscosity oils that is formulated for use on mild deforming operations leaving a very light lubricant film that also aids in welding. EZDraw V75 is non-reactive to all metals and will evaporate leaving a very clean wire surface.

#### EZDraw V36:

Is a special blend of low viscosity oils that is formulated for use on mild deforming or rolling operations leaving a very light and dry lubricant film that also aids in shelf life and feed ability. EZ Draw V36 is non-reactive to all metals and will evaporate leaving a very clean wire surface.

#### EZDraw V30:

Is a special blend of low viscosity oils that is formulated for use on mild deforming or rolling operations leaving a very light lubricant film giving improved shelf life. EZDraw V30 is non-reactive to all metals and will evaporate leaving a very clean and dry wire surface.

wire.03.01.02

Auxiliary drawing materials

### Calcium Drawing Powders

#### EZDraw 99T

A medium rich powder containing an extreme pressure additive with additional lubricity agents to enhance lubricant pick-up on descaled rod. Recommended for rod breakdown. Also used for drawing coated alloy rod.

#### EZDraw 19

A good general-purpose soap for use on all carbon steels. Contains extreme pressure additives and is in the medium rich range. Recommended for use on both chemically cleaned and mechanically descaled rod and wire.

#### EZDraw 57

A medium rich powder containing an extreme pressure additive with additional lubricity agents to enhance lubricant pick-up on descaled rod. Recommended for carbon steel rod breakdown. Also used for drawing coated alloy rod.

#### EZDraw 39

A lean calcium soap powder containing an extreme pressure additive and additional lubricity agents to enhance lubricant pick-up on descaled rod.

#### EZDraw 95

A medium rich drawing powder containing lubricity agents to enhance lubricant



pick-up on descaled rod. Recommended for carbon steel rod breakdown and drafting coated and uncoated carbon steel.

#### EZDraw 58

A medium rich calcium soap recommended for high speed, multiple hole drawing of carbon steel rod and wire. Typical applications include welding or lacing wire.

#### EZDraw 80

A moderately rich soap powder containing extreme pressure and lubricity enhancers for drawing high carbon and stainless steel. Commonly used in the first several die boxes for rod breakdown followed by a rich, sodium soap on a high speed multi-hole draw.

### Copper wire drawing products

#### EZDraw CP10

A concentrated copper rod and wire drawing lubricant containing specialty lubricity additives, emulsifiers, corrosion inhibitors, and biocide. It is designed to offer optimum performance in most drawing applications and is expressly formulated to minimize build up and foam in drawing machines.

#### EZDraw CP40

A highly concentrated semi-synthetic copper rod and wire drawing lubricant containing new specialty lubricity additives, emulsifiers, corrosion inhibitors, and biocide. It is designed to offer optimum performance in most drawing applications, most types of water and is specifically formulated to keep your system clean, be very pH stable and running for an extended amount of time.

#### EZDraw CP90

A highly concentrated synthetic copper rod and wire drawing lubricant containing newly developed lubricity additives, emulsifiers, corrosion inhibitors, and biocide. It is designed to offer optimum performance in most drawing applications, most types of water and be very pH stable. It is also specifically formulated to keep your system running clean and extend your bath life, while leaving the wire surface very clean for

processing.

#### EZDraw CQ1

A soluble oil recommended for use as a quench water additive for the continuous annealing of nonferrous wire. It is a blend of emulsifiers, water conditioners, corrosion inhibitors, and lubricating ingredients. This product prevents water spotting and preserves a bright, clean finish on nonferrous wire coating them with a very light protective film.



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#### EZDraw EMULS9

A concentrated blend of emulsifiers and pH buffers that when added to a lubricant system will improve detergency and stability properties of the solution. Using it will help extend lubricant solution life and enhance system cleanliness, metal wetting and fines filtration.

#### EZDraw PHU

A mild alkaline neutralizer and pH buffering compound for lubricant emulsion systems.

### Beneke Wire Company



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Stand	Hall 09, A77

#### Tradition at Beneke Wire Company

Beneke Wire Company was founded in 1968 by aluminum industry pioneer Charles J. Beneke and his son David, now President. Their goal was to provide drawn wire and cold finished rod in aluminum alloys both heat and non-heat treatable, in finished coil or straight lengths. They wished to provide unequalled technical support and the engineering needed to reduce customer's production costs. Simply, the goal was to supply a better product with each and every shipment. Today, over forty years under the same ownership, our goal is still the same...

Better products with every shipment.



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#### Exhibitor profile

Beneke Wire Company

Number of employees –

Business volume –

Export quota –

Founding year 1968

Business segment

#### Product Overview

Beneke Wire Company

wire.04.03.01 Aluminium

wire.04.05.01 Bolts, rivets, cold extruded parts

wire.04.05.12 Wire products for use in the automotive and aircraft industries

#### Product Details

Beneke Wire Company

wire.04.03.01 Aluminium

#### #4 Finish

A lustrous finish especially applicable for cold heading. This oxide free surface greatly improves tool life and uniformity in metal flow while heading. Product has enhanced, shiny appearance and will anodize well.

#### Anodizing Finish

This oxide free surface has specific applications in products that are color anodized or bright dipped as a final operation. Adds a luster to the anodized part. Improves corrosion resistance. Bright Finish: Clean, chrome-like finish comparable to stainless or chrome finish on steel; improves cosmetic appearance of aluminum wire



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### DNR Finish

Specifically designed for those applications where surface imperfections must be minimized. Although technology is not present to provide a perfect surface, defects that are 1% of finished diameter are detected and removed with this process.

## Bergandi Machinery Co. Inc.



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Stand	Hall 09, B11



### Bergandi Machinery Company

Where we came from, where we are going

Bergandi Machinery Company is a 80-year old manufacturing company founded by Frank Bergandi, who designed and built America's first automated chain link weaver. Over that time Bergandi Machinery Co. has established itself as a world leader in designing, marketing, manufacturing and servicing machinery for the wire and metal process industries.

In 2001, Scott Marsotti acquired the majority stock and assumed the position of Chief Executive Officer of the Company. Scott initiated a complete review of the Company's operations, emphasizing the Company's goals and objectives of providing the best in customer service, while stressing product development through innovation, technology and performance enhancement.



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Today, with managements' leadership, Bergandi Machinery has increased its presence in the world market as a world-class leader in machinery building. Bergandi Machinery Company continues to strive for building economic, efficient and highly productive equipment in utilizing technology, engineering and innovative design to promote a panted approach to equipment manufacturing.

Since its humble beginning, Bergandi has outgrown two locations and now occupies a 41,000 sq/ft modern facility, located approximately 43 miles east of downtown Los Angeles in Mira Loma, California.

Exhibitor profile		Bergandi Machinery Co. Inc.
Number of employees	50-99	
Business volume	10-49 Mio US \$	
Export quota	max. 75%	
Founding year	1928	
Business segment	Raw materials, tubes and accessories	

Company Contacts		Bergandi Machinery Co. Inc.
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**Product Overview**

Bergandi Machinery Co. Inc.

wire.01.10.03 Wire fence machines

**Product Details**

Bergandi Machinery Co. Inc.

wire.01.10.03 Wire fence machines

**HR-90 Single Wire Chain Link Weaver**

- Standard mesh sizes available with this machine are: 1/4" to 1" (6.4mm to 25mm)
- Able to run basic, aluminized, aluminium, galvanized and PVC coated wire with minor changes
- Fence Fabric from 6ga to 13ga (4.9mm to 2.3mm) wire
- Runs both single and double wire
- Touch Screen for programming all machine functions
- Can produce mesh sizes of 1/4" to 2 3/4" (6.4mm to 20mm) with proper tooling



**SWVR-99 Slat Weaver**

- Produce chain link fabric while inserting Plastic slats
- Able to run basic, aluminized, aluminium, galvanized and PVC coated wire with minor changes
- Fence Fabric from 6 ga to 13 ga (4.9mm to 2.3mm) wire
- Can preinsert slats 2 inches and 3 1/2 inches (50mm and 89mm)
- LCD controls for programming all machine functions
- Automatically weaves 2 strands of wire and inserts 2 slats during each cycle of the machine



**WVR-500 Chain Link Weaver**

- Mesh sizes 10mm to 100mm (3/8" to 4")
- Fence heights from 2ft to 20 ft
- Wire gauge from 2.0mm to 5.0mm (14ga to 6ga) smaller and larger gauge is available with special tooling - 1.6mm to 5.25mm (16ga to 5ga)
- Weaving blade speed variable from 200rpm to 1175rpm adjustable while weaving
- Knuckles or barbs independently created on both or either fence ends



Bergandi Machinery WVR-500 Variable Speed Drive, is unique in its state-of-art design technology, providing maximum production and minimum down time. The operator control layout makes it the most versatile chain link weaver available on the market.

**Beta LaserMike Products**

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Stand	Hall 11, D68

**Product Overview**

Beta LaserMike Products

wire.05.06 Equipment for measuring the diameter, width, height and length



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Internationale Fachmessen  
www.wire.de / www.Tube.de

## Blachford Corporation

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E-Mail	
Stand	Hall 09, E02



### Profile

Blachford Corporation is a US based manufacturer of wire drawing lubricants and surface active chemicals.

Blachford is the largest and oldest wire drawing process chemicals producer in No. America. Producing world-class products for the welding wire, tire reinforcement wire, high carbon spring wire and stainless steel wire markets.

Please visit Blachford at [www.blachford.com](http://www.blachford.com) or at our booth in Hall 09 Stand No. 09E02.



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Internationale Fachmessen  
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## Company Contacts

Blachford Corporation

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## Company News

Blachford Corporation

### 12/14/2015 New Technology Dry Lubricants that Reduce

New Technology Dry Lubricants that Reduce  
Dust Creation Potential

In 2009, a Georgia (US) sugar mill suffered a devastating explosion due to the presence and subsequent ignition of a combustible dust cloud. This terrible accident resulted in the deaths of 13 people and changed forever the way industrial manufacturers manage and mitigate dust related risk.

This accident illustrated the risk associated with combustible dusts and led many wire drawers to begin searching for ways to reduce both the creation and accumulation of dust - in their facilities. As part of their search to reduce this risk, a number of wire producers turned to Blachford Corporation for technological developments that would reduce dust creation during steel wire drawing.

Blachford is known throughout the global wire drawing industry as an innovator and a solutions provider. Blachford develops lubricant programs that are tailored to the technical specifications of their customers' processes. Blachford is well known for their continuous research of new technologies that aid in the production of wire. Blachford has been doing this for many of the world's largest wire drawers for over 50 years. Blachford is valued within the global wire industry as an organization that innovates, researches, and works with wire producers to create value and provide technical solutions.



Blachford works to help wire producers achieve their goals and become more successful in their respective markets. So when asked to find a way to reduce dust risk, Blachford's highly skilled team of scientists and engineers began working to find a solution.

As Blachford is primarily a lubricant manufacturer, and most dust concerns were coming from steel wire customers, Blachford focused primarily on developing a steel wire drawing lubricant that would have a lower potential to create and/or liberate dust during use.

Producing steel wire tends to be a dusty enterprise, due to the activities performed and the materials used. Whether descaling, mixing dry pre-coats into water, drawing wire with dry lubricants or further processing that wire downstream – each unit operation in the wire production process has the potential to liberate dust. Blachford therefore needed to first qualify how dust is created when dry drawing lubricants are used in wire drawing.

There are primarily three sources of dust from dry drawing lubricants in wire drawing:

During transfer of drawing lubricant from packaging to the wire drawing machine. When lubricants are poured into the soapboxes, those that have high fines content will create dust. The high fine particle content is created when the lubricant is manufactured and ground to a set particle size. These fine particles are very light and can easily become a dust cloud. Blachford recommends overcoming this dust source by moving away from ground lubricants, to Beaded lubricants whenever possible. Beaded products are not ground and therefore they do not have fine particles. Instead, beaded products are manufactured with a very specific particle size distribution that do not liberate dust when poured into a soapbox. During the drawing process – when the wire agitates the lubricant in the soapbox. This can be overcome in a number of ways, but all involve keeping the dust from leaving the soapbox. After the wire is drawn through a die the lubricant on the wire cools and becomes brittle. When the wire is then bent around the capstan, the lubricant shatters and is thrown into the air. This happens because the lubricant – which is soft when it is hot – in the high heat and pressure of the die – becomes cool when the wire exits the die. As the lubricant cools it becomes hard again and the thin lubricant film on the wire becomes brittle. The wire is then pulled around a capstan, which bends the wire. The brittle lubricant film then shatters in the same way reverse bending shatters rod scale. The capstan's centrifugal force then causes the loosened lubricant to fly off the wire and become airborne. Until now there hasn't been any way to overcome this potential significant source of dust...

As stated above, the first two sources of airborne dust are easily controlled and have been for some time. The challenge existed in controlling the dust source



detailed in #3 above. A technical innovation was required to develop a dry lubricant that would be less likely to become brittle when cooled and/or less likely to detach from the wire when rotating on the capstan. Blachford's efforts led to their newest technological development: Blachford's Low Dust Drawing Lubricants.

Blachford's new low dust lubricants are designed to reduce observable dust creation by reducing the potential of lubricant detaching from wire when the wire is bent and rotating around a capstan. The reduced dust creation is achieved by improving the lubricant-to-wire interface such that adhesion between the two media is consistently maintained even after cooling. By reducing lubricant detachment, the potential for lubricant becoming an airborne dust is reduced as well.

Reducing the lubricant that is detached from the wire has added performance benefits as well. If more lubricant remains on the wire as it wraps around the capstan, more lubricant is delivered into the subsequent die. This can increase and improve lubricant film formation at each die, thereby improving overall lubricant attributes, like:

- Higher drawing speed
- Reduced lubricant consumption
- Extended die life
- Better wire surface protection
- Increased wire rust resistance
- Reduced blackened material in the soapboxes

Blachford's new low dust lubricants are being run in a number of steel wire drawing applications, from high carbon, to weld wire, and tire reinforcement wire, all with very good results. The new low dust lubricants are delivering to these applications both reduced observable dust creation and improved performance.

Blachford's new low dust lubricant technology also affects the material that falls from the die outlet – often referred to as "Feathers". Most lubricants produce feathers in some form, whether just chips that fall out of the die, flakes or streamers, most lubricants can feather. These feathers can contribute to dust formation when they cool and become brittle, break into fine particles and become airborne. The same technical improvements that help Blachford's new low dust lubricants to remain attached to the wire even after the wire and lubricant are cool, also reduce the tendency of the resulting feathers to become brittle and break into fine particles. Therefore, feathers created with the new low dust products are less likely to contribute to dust creation.

In addition to the development of these new products, Blachford has invested in learning about dusts, their risks and methods of controlling them. Blachford



sent R&D personnel to train at Chillworth Global (A leading dust testing lab services provider) to better help customers mitigate dust risk. Blachford has tested many of their own products at Chillworth, to understand the products' impact. And Blachford has authored an Information Bulletin ("Controlling Dusts From Dry Wire Drawing Lubricants") – a copy of which can be supplied by request from one of the below contacts.

Blachford has developed new products, gathered relevant information and invested in training so as to provide customers with the best guidance in the control and mitigation of dust risk.

Blachford's new low dust lubricants may provide to steel wire drawers an opportunity to reduce dust risk, while also improving overall process performance and profitability.

If you would like to receive further information on anything described in this article, please contact Blachford by any of the following routes:

By calling us 815-464-2100 or 317-501-5869 By email at Mark Van der Vlist - mvandervlist@blachford.ca or Dan Howard - dhoward@bcorp.blachford.com

Website at www.blachford.com

### Product Overview

Blachford Corporation

wire.03.01.01 Oils, greases, lubricants

### Product Details

Blachford Corporation

wire.03.01.01 Oils, greases, lubricants

### Lubricants for Drawing Wire

We've been supplying our customers with meticulously researched, innovative and dynamic wire drawing products for almost 50 years. With over 250 wet and dry lubricants for producing ferrous and non-ferrous wire, our lubricant solutions will continually improve and evolve your manufacturing processes. Our extensive line of Blachford dry lubricants, sold under the well-known registered trademarks Chemdraw® and Caplube®, is designed for ferrous wire. These products are based on metallic soap powders, with controlled morphologies and particle size distributions. Blachford's equally diverse line of wet lubricants, also sold under the registered trademark Chemdraw®, is suitable for ferrous, non-ferrous



and coated-ferrous wire drawing applications. We also manufacture precoats, grease and paste products and liquid concentrates for emulsions. Our dry lubricants, and most of our wet lubricants, are manufactured in Frankfort, Illinois. Wet lubricants are also manufactured in Mississauga, Ontario. For an overview of our wire drawing products, please refer to the Chart: Wire Drawing Lubricants

### Metal Working Compounds



Blachford manufactures and supplies a broad range of technologically advanced metal working products, used in a wide range of industrial applications. Custom-made products can be developed in our laboratories for customer and equipment specific applications. Our products for the steel industry include rolling oils, and also pickle and corrosion-inhibiting slushing oils, fire-resistant hydraulic oils and emulsions. We also sell mill conditioners, edge sealers, coolant system cleaners, maintenance cleaners, and a variety of customized additives. Other product groups sold include machining and grinding coolant lubricants, forming compounds for stamping and drawing, a full range of part and maintenance cleaners, fire resistant hydraulic fluids and tube and pipe coatings. Many of these products, which we manufacture in our Mississauga plant, are made under a license agreement with Quaker Chemical Corporation of Conshohocken, Pennsylvania. This is an agreement that we have had since 1948 and which gives us the exclusive rights to the Canadian market for all Quaker metal working products. We also have new fluid recycling services, which assists the metal working industry in reducing costs and labour, controlling processes and minimizing waste.

### SMART System



The H. L. Blachford SMART System - Lubricant Advisor Technology is a state-of-the-art wire drawing lubricant selection program that matches technically advanced Blachford Chemdraw® lubricants with wire industry needs. SMART gives customers the power to minimize or eliminate some of the risks associated with the "trial and error" part of evaluating new wire drawing lubricants.

How SMART works?

The customer's wire drawing and lubrication systems information is entered into the SMART System. SMART then searches for the best possible Blachford Chemdraw® lubricants based on real world data from similar applications and our understanding of current and new lubricant technologies.



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This highly effective, proprietary tool was developed by Blachford R&D and Applications Experts and is supported by many years of field applications experience and data collection. All field information entered into SMART by our R&D or Sales teams is treated as strictly confidential.

Where can SMART be used?

The H. L. Blachford SMART system can benefit a wide range of wire drawing companies such as (but not limited to):

Welding wire Spring wire Tire bead Tire cord Stainless steel wire Galvanized wire

How SMART can save money:

SMART provides the option to simulate a customer's work conditions prior to evaluating lubricants in their processes. By changing selected working parameters such as die material, drawing speed or lubricant applicator, SMART may advise a different lubricant that will help to improve profitability through improved wire drawing performance or lower cost. Reducing or eliminating the trial stage of any lubricant change, can save time, material, maintenance, and waste disposal, as well as reduce production risks.

### Bristol Metals (Brismet), Inc.

Address	390 Bristol Metals Road, P.O. Box 1589 37621 Bristol, TN USA
Phone	+1 423 9894780
Fax	+1 423 9894717
Internet address	www.brismet.com
E-Mail	psword@brismet.com
Stand	Hall 03, E56

#### Manufacturer of Welded Pipe

BRISMET, located in Bristol, TN, USA produces a diverse line of nickel alloy, stainless steel, duplex, super duplex, titanium and 6% moly grades of welded



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pipe for consumption throughout the world. BRISMET produces welded pipe sizes from 1/2" to 144" (12.7 millimeters to 4 meters) in diameter.

BRISMET maintains the strict ISO 9001:2008, PED, ASME U and ASME Nuclear (NPT) certifications. In addition to maintaining rigorous certifications, our commitment to quality is backed by our acceptance on most major Authorized Manufacturers Lists (AMLs).

#### Exhibitor profile

Bristol Metals (Brismet), Inc.

Number of employees 100-499

Business volume -

Export quota -

Founding year 1946

Business segment Raw materials, tubes and accessories

#### Company Contacts

Bristol Metals (Brismet), Inc.

Department/Name	Address
Parker Sword	Bristol Metals USA-37621 Bristol, TN Phone: +1-423-9894780 Fax: +1-423-9894717 psword@brismet.com

#### Product Overview

Bristol Metals (Brismet), Inc.

tube.01.01.03.01	Duplex and nickel base alloy pipes and tubes
tube.01.02.01	Austenitic
tube.01.03.04	Nickel

**Product Details**

Bristol Metals (Brismet), Inc.

tube.01.01.03.01

Duplex and nickel base alloy pipes and tubes

**Duplex**



If you are in the market for the best in duplex welded pipe and duplex welded tube, look no further than BRISMET. We have an extensive production range in which we offer pipe sizes from ½ of an inch to 144 inches (Nominal Pipe Size), as well as tubing sizes upon request. In addition to all these great capabilities, we have unmatched wall thickness, length and testing.

A heat treatment is offered on sizes up to and including 36 inches. To insure that a quality product is supplied, BRISMET maintains the rigorous ISO 9001:2008, PED, ASME U and ASME Nuclear (NPT) certifications. Our commitment to providing you with quality duplex welded tube and pipe is backed by our acceptance on most Authorized Manufacturers Lists (AMLs). BRISMET also has experienced knowledge behind the production of duplex welded within the very strict regulations of pipe, oil and gas specifications and testing requirements.

Specifications of Duplex welded pipe:

A790A928A999

In addition to holding our company to the highest standards, BRISMET also maintains a full inventory of Duplex 2205 pipe in diameters from 2 inches through 24 inches. And we also keep a full stock of Duplex 2205 pipe in Schedules 10S through 40S, as well as some 80S. However, we also carry other pipe sizes in our inventory. No matter what you need for your welded pipe project, let BRISMET be your guide in duplex welded pipe

**Super Duplex Welded Pipe**



If you are looking for exceptional service and production for your super duplex welded pipe, look no further than BRISMET. For super duplex welded pipe and tube, BRISMET has a diverse production range, offering pipe sizes ranging from ½" to 144" (Nominal Pipe Size) and tubing sizes upon request. Additionally, we also have unmatched wall thickness, length and testing capabilities, making us reliable super duplex welded pipe manufacturers.

A heat treatment is offered on sizes up to and including 36". To insure that a

quality product is supplied, BRISMET maintains ISO 9001:2008, PED, ASME U and ASME Nuclear (NPT) certifications. Our commitment to quality service and construction of our super duplex stainless steel pipes is validated by our acceptance on most major Authorized Manufacturers Lists (AMLs).

Specifications of super duplex welded pipe produced are A790, A928, and A999.

There are some pipe sizes that are available from our inventory. If you are looking for something specific, feel free to contact us here. For project requirements, we are able to offer a complete range of super duplex welded pipe products from production.

tube.01.03.04

Nickel

**Nickel Alloys**



If you are in the market for nickel alloy welded pipe or tube, you can find what you need here at BRISMET. For Nickel Alloy welded pipe and tube, BRISMET has a various sizes, ranging from ½ of an inch to 144 inches (Nominal Pipe Size). In addition, we also offer tubing sizes upon request. At BRISMET, the quality of the product that we provide our customers with remains our top priority.

To prove that we want to give our customers the best products possible, BRISMET maintains the strict ISO 9001:2008, PED, ASME U and ASME Nuclear (NPT) certifications. In addition to maintaining rigorous certifications, our commitment to quality is backed by our acceptance on most major Authorized Manufacturers Lists (AMLs).

Specifications of Nickel Alloy welded pipe and tube produced are B725, B474, B517, B705, B619, A358, A312, B464, and B515.

BRISMET keeps an inventory of C276 pipe, in diameters from ½ of an inch through 12 inches. In addition to the inventory of those sizes, we also keep them in Schedules 10S through 40S. Other Nickel Alloys welded pipe sizes are available as well. Let BRISMET be your guide for the nickel alloy welded tube for your project.



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## Burr Oak Tool Inc.

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E-Mail	sales@burroak.com
Stand	Hall 05, F01



### Company Profile

Founded in 1944, Burr Oak Tool Inc. has remained family owned and operated in Sturgis, Michigan, U.S.A., for nearly 65 years. Our prestigious history represents both domestic and export markets in approximately 70 countries. Our management team represents over 100 years of experience in the industry of heating and air conditioning manufacture.

Our corporate officers and employees are committed to quality and service to the customer. Our close attention to the detail of the customers' requirements continue to strengthen Burr Oak's position in the marketplace.

Burr Oak Tool Inc. proudly employs over 400 specialists in the design and manufacture of customized production machinery for the air conditioning and refrigeration industry.

We use state of the art technology from initial design to the production stage.

### Product Overview

Burr Oak Tool Inc.

tube.10.02.05 Profile cutting machines



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### Product Details

Burr Oak Tool Inc.

tube.10.02.05 Profile cutting machines

### Tube Cutoff Machines

Burr Oak Tool Inc. produces three types of cutoff machines – two process coil and straight tubing, while the third processes coiled multivoid (micro channel) tubing. We offer all cutoff styles in single or double configurations and with end-forming capabilities. In addition, there are a number of options available to customize your cutoff machine to your specific application.



## Ceeco Bartell Products, Bartell Machinery Systems L.L.C.



Address	6321 Elmer Hill Road 13440-9325 Rome, NY USA
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Fax	+1 315 3360947
Internet address	bartellmachinery.com
E-Mail	
Stand	Hall 09, C74



### Ceeco Bartell

Ceeco Bartell, one of the world's premier suppliers of rotating equipment will be highlighting its wide range of its products for the cable industry.

Including systems for:

- High Speed Double Twist machines (1800 mm- 2200 mm)



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- Data and telephone cable group & individual twinning
- High performance OPGW stranders,
- Planetary stranders,
- High speed strip armouring lines,
- Rigid Stranders with automatic loading,
- High speed Tubular Stranders,
- Custom designed machines for the oil supply industry.

### Company Contacts

Ceeco Bartell Products, Bartell Machinery Systems...

Department/Name	Address
Sean Harrington	Ceeco Bartell Products, Bartell Machinery Systems LLC USA-13440-9325 Rome, NY Phone: +1-647 988 9378 Fax: +1-315-3360947 sean.harrington@ceecobartell.com
Bijan Bahmanian	Ceeco Bartell Products, Bartell Machinery Systems L.L.C. bijan.bahmanian@bartellmachinery.com
Shawn Lawlor	Ceeco Bartell Products, Bartell Machinery Systems L.L.C. USA-13440-9325 Rome, NY Phone: +1-315-3367600 Fax: +1-315-3360947 slawlor@bartellmachinery.com

### Product Overview

Ceeco Bartell Products, Bartell Machinery Systems...

wire.01.09.03	Stranding
wire.01.09.04	Twisting, bunching



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### Product Details

Ceeco Bartell Products, Bartell Machinery Systems...

wire.01.09.03	Stranding
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#### Drum Strander/Cabler

Drum Stranders/Cablers are suitable for the concentric assembly of:

- Insulated conductors
- Screened power cables
- Stranded, round and sector conductors
- Milliken conductors
- Steel wire armouring
- Instrument, data and, control cable
- Telephone cable



Specific configurations include fixed and variable backtwist to suit the application. Ceeco Machinery Manufacturing Limited manufactures different cradle designs to suit customers applications; Closed Cradle, Open Cradle (trunnion supported), Fork Type and Vertical.

#### Rigid Strander/Cabler

The Rigid Strander/Cabler is suitable for the concentric assembly of:

- Stranded conductors for low, medium and high voltage applications
- Cabled, insulated conductors
- Screened power cables
- Steel wire armouring



Typical lines include the capability to strand 37 or 61 elements in a single pass with tandemizing options to further enhance the line's capabilities.



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wire.01.09.04

Twisting, bunching

### LAN Cable Group Twinner/Cabler

The "Group Twisting and Cabling" line is designed to produce digital communication cables using traditional solid and stranded copper conductors. Cables produced on this line meet the rigorous demands of the category 5, 5e, 6 & 7 requirements for full frequency sweep at 600 megahertz. As a world leader in the manufacturing of LAN Cable Group Twinners, Ceeco has developed a variety of designs to suit customers needs:



- Line Shaft • Individual Drive • Non-Backtwist

### Century Specialties, Inc.

Address 2410 West Aero Park Court  
49686 Traverse City, MI  
USA

Phone +1 231 9467500

Fax +1 231 9474456

Internet address www.centinc.com

E-Mail contact@centinc.com

Stand Hall 06, C21-01



### Century, Inc - Expect More

At Century, Inc., we excel at manufacturing high mix, low-to-medium volume hardened-steel components. Our long history—over 35 years—in producing precision components with exacting standards enables Century to deliver first-rate precision machined and heat-treated parts. Our unrivaled background and innovations in high-accuracy machining and heat-treating processes provide companies around the world with extraordinary value.



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Our specialties include a wide variety of steel components in many shapes and forms. We are adept at matching our capabilities to our customers' individual manufacturing requirements. Our experienced personnel confidently overcome any production challenge, creating better designs and more efficient methods of production. Quality, service, and reliability are the keys to our worldwide success.

Century, Inc. has two divisions:

Century Specialties

Century 3+ RingExtruder

Expect More from Century, Inc.

At Century, we pride ourselves on exceeding the expectations of our customers. We make certain that every piece of equipment and all of our parts are of the highest quality, built according to stringent guidelines. And we're there when you need us, without delay. We closely monitor our on-time delivery performance, a top priority. At Century Inc., we consistently produce the world's finest precision parts.

Our services include:

- . Precision turning, milling, grinding, and cutting
- . Low-to-medium volume, high mix production runs
- . Highly skilled craftsmen and advanced technologies
- . Consistently manufactured high-precision parts
- . Computer numerically controlled turning, milling, and grinding
- . Machining tolerances of plus or minus .0002"
- . ISO 9001: 2000 international certification
- . Extensive heat-treatment services with NADCAP certification
- . Quality assurance and customer satisfaction
- . Metallurgical laboratory and inspection services



**Product Overview**

Century Specialties, Inc.

tube.04.04 Dies

**Product Details**

Century Specialties, Inc.

tube.04.04 Dies

**Precision Grinding**

Century's grinding department has extensive experience producing highly ground and polished components for applications requiring complex super-finishes where accuracy cannot be compromised in both soft and hardened material components.

Our precision grinding and polishing services include:

- Five-axis CNC profile grinding
- ID & OD grinding
- Surface, thread, & spline grinding
- 24" diameter & 110" length
- 6,100 lbs. max weight

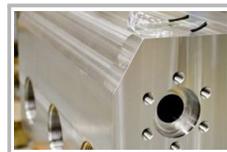


**Precision Milling**

To ensure our milling centers are the ultimate in cost-efficiency and performance, Century continually reinvests in the latest CNC technology available. We currently utilize the industry's most advanced state-of-art next generation 4 and 5-axis vertical and horizontal milling centers.

Century Specialties provides precision milling with the following capabilities:

- 3, 4, & 5-axis milling capability
- Vertical & horizontal milling
- Up to 137" X 98" X 63"
- Up to 22,000 lbs.



High velocity milling

**Precision Turning**

Century's cutting-edge turning capability includes advanced CNC horizontal and vertical lathes and multi-tasking Turn-Mill centers. Our Turn-Mill centers are world class in cost efficiency and accuracy, combining turning and milling into one machine tool. Complete with automation options, and in-process gauging; our turning department produces complex multifaceted close tolerance components.



Our precision turning capabilities include:

- 2, 3, 4, & 5 axis simultaneous turning
- Twin-turret turning
- Vertical & horizontal turning
- Up to 120" between centers
- Up to 48" in diameter

**Chase NEPTCO**



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### Chase NEPTCO Inc

Chase Corporation was founded in 1946 and over the years has grown to become a leading manufacturer of industrial coatings and tapes for high reliability applications with a global customer base operating in diverse market sectors.

NEPTCO was founded in 1953 and over the years has followed a very similar path as Chase Corporation in development of its various product lines, with a primary emphasis on the Wire and Cable Industry.

Chase Corporation, and Chase NEPTCO, a wholly owned subsidiary of Chase Corporation continues to offer the most comprehensive range of Wire and Cable component materials of any global supplier. Products include a wide range of flexible and rigid strength elements with and without water blocking properties for fiber optic cables and multi-ply shielding tapes; heat-seal and pressure-sensitive coated films and laminates; foil free edged tapes; screening tapes; separator tapes; barrier/binder tapes; slit films; printed marker identification; water blocking tapes and yarns; and a full range of woven and nonwoven nonconductive and semi-conductive power cable tapes as well as strand fill compound for MV to EHV power cable designs

#### Exhibitor profile

Chase NEPTCO

Number of employees	–
Business volume	–
Export quota	–
Founding year	1953
Business segment	Process technology tools and auxiliaries



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#### Company Contacts

Chase NEPTCO

Department/Name	Address
James George	Chase NEPTCO Inc USA-Pawtucket Rhode Island Phone: 401-965-4928 jgeorge@neptco.com
Peter Deutschmann	Chase NEPTCO Inc D- Phone: 49-151-506-72168 pdeutschmann@neptco.com
Rick Copp	Chase NEPTCO USA-Pawtucket Rhode Island Phone: 401-225-0217 rcopp@neptco.com
Mark Canrobert	Chase NEPTCO USA-Lenoir North Carolina Phone: 1-828-302-0606 mcanrobert@neptco.com

#### Product Overview

Chase NEPTCO

wire.04.08.01.01	Waterswellable yarns
wire.04.09.01	Film, film/foil, laminates
wire.04.09.01.01	Shielding nonwoven tapes
wire.04.10.01	FRP strength elements



wire.04.10.03 Flexible FRP strength elements

wire.04.12.02.01 Nonwoven tapes

wire.04.12.03 Insulating, separating and special tapes

wire.04.12.03.01 Waterblocking tapes

wire.04.12.04 Plastic foils/film/sheet

wire.04.12.12.01 Flame retardant tapes

wire.04.12.13 Printed films

wire.04.12.15 Cable filling compound

#### Product Details

Chase NEPTCO

wire.04.08.01.01 Waterswellable yarns

#### WBY

Water Blocking Yarns (WBY) are available in a number of denier as needed for specific applications

wire.04.09.01 Film, film/foil, laminates

#### NEPTAPE

Films include but not limited to PET, PP, PE, Kapton, as well as customer specific films for laminating

Laminates include, but not limited to PET/AL, PET/PE, Kapton/AL, Nomex/AL, PET/PE, PET/Cu, and any other custom combinations to meet customer requirements

wire.04.09.01.01 Shielding nonwoven tapes

#### Various

Customer specified specialty tapes



wire.04.10.01 FRP strength elements

#### Lightline

Rigid strength elements used for fiber optic cable applications and/or other cable applications where non metallic is required and a high strength to weight ratio is critical -

Sizes from 0.9 mm to 5.0 mm in round profile

waterblocking coatings also available, as well as special coatings for adhesion to various jacketing materials or for other customer specific requirements

flat profiles also available

custom profiles can be developed as well

wire.04.10.03 Flexible FRP strength elements

#### Flexline

Flexible strength elements for fiber optic cables or for any cable applications where added tensile strength may be required

special coatings available for adhesion and for water blocking properties

available in various denier for specific customer applications

wire.04.12.02.01 Nonwoven tapes

#### Various

Nonwoven tapes are available per customer requirements

wire.04.12.03 Insulating, separating and special tapes

#### Chase & Sons / NEPTAPE / Powerline

Chase & Sons - S260, S439, Service Entrance Tape L962-50

NEPTAPE - Corrugated PET, Service Entrance Tape N96292

And other customer specific insulating, separating and specialty tapes

Powerline - A full line of Energy Cable Tapes for MV, HV and EHV applications are also available as Chase NEPTCO Powerline Tapes. These include non-conductive and semi-conductive tapes, woven and non-woven

wire.04.12.03.01 Waterblocking tapes

#### AquaBlok

Chase NEPTCO carry a full line of water blocking tapes for all cable applications to include but not limited to: fiber optic, LAN / Category, Energy (low voltage,



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medium voltage, high voltage, and extra high voltage) and any other specialty cable applications requiring water blocking capabilities

wire.04.12.04 Plastic foils/film/sheet

**Various**

Chase NEPTCO offer standard PET's, PP's, PE's, etc, as well as any custom film products per customer requirements

wire.04.12.12.01 Flame retardant tapes

**Chase & Sons / Chase NEPTCO**

Chase & Sons - typical products would be S203 and S378 - other products available per customer requirements

Chase NEPTCO - "Firefight" tapes - LS1035 and LS100

Chase NEPTCO - Powerline tapes - NTS188 and NT185S

wire.04.12.13 Printed films

**Marker Identification Tapes**

Chase NEPTCO supply a full range of marker identification tapes for standard temperature applications as well as high temperature applications

Standard constructions include PET, PP, Kapton, Nomex, cotton

Slit widths down to 3/64 inch

Footage or meter markings

Custom legends can be printed

Print can be encapsulated between 2 films to insure print quality in severe applications

wire.04.12.15 Cable filling compound

**Strand Fill - ChaseBIH2Ock**

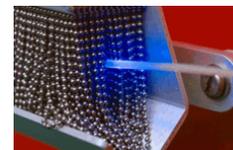
Chase & Sons A162A is a unique flexible semi conducting thermoplastic compound designed as a strand filling water blocking agent for stranded conductor power cable applications



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**Clinton Instrument Company**

Address	295 East Main Street 06413 Clinton, CT USA
Phone	+1 860 6697548
Fax	+1 860 6693825
Internet address	www.clintoninstrument.com
E-Mail	support@clintoninstrument.com
Stand	Hall 09, E40



**Our Company**

Clinton Instrument Company, the world leader in spark testers for the wire and cable industry, has expanded its high voltage pinhole detection technology to include new quality control tools for manufacturers of plastic- and dielectric-coated materials. A Clinton pinhole detection system performs a 100% inspection on the manufacturing line, insuring product reliability and averting further processing of substandard material.

Clinton engineers are available to discuss your pinhole detection application. Call us, send us samples, or submit a product questionnaire to get started.



**Product Overview**

Clinton Instrument Company

wire.05.10	Quality assurance systems (incl. factory data acquisition)
wire.05.14	Spark Tester
wire.06.01.02	Non-destructive material testing
wire.06.05	Laboratory test equipment

**Product Details**

Clinton Instrument Company

wire.05.10	Quality assurance systems (incl. factory data acquisition)
------------	--

**FL-20A Cable Fault Locator**

Clinton now offers a new digital cable fault locator design that automates cable fault detection, greatly reducing the time and training required to find these problems. Opens, metallic shorts, or high voltage shorts between conductors or between conductor and shield are pinpointed quickly and with ease. The failure can then be cut out or repaired and the remaining good product salvaged, resulting in great savings to the producer.



wire.05.14	Spark Tester
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**AC-30A and AC-30AS**

AC-30A and AC-30AS Mains Frequency Spark Testers  
30KV Digital Mains Frequency Spark Testers



The AC-30 AC Digital Mains Frequency Spark Tester has 3 separate components:

Rugged electrode with simple string up and automatic bead placement  
Digital control unit that can be located up to 200 feet away  
Adjustable height floor stand

The AC-30 can work standalone or can be part of a computer-controlled line,



receiving and responding to commands through an RS-485 port or other communication modules. Several electrode sizes are available to test a range of products and line speeds.

The new AC-30AS features a unique self-adjusting transformer proven to maximize test voltage on high speed and high capacitance cables without an increase in current.

wire.06.01.02	Non-destructive material testing
---------------	----------------------------------

**In-Line Pinhole Detectors for Plastics**



Manufacturers of plastic film, sheet and high volume plastic parts have long sought a reliable method of locating pinholes and flaws during production. When defects go undetected, the result can be costly rejections and loss of customer confidence.

High voltage pinhole detection technology is a new method of quality control for plastic and plastic-coated materials, adaptable to many types of manufacturing operations. Clinton pinhole detectors perform a 100% inspection on the manufacturing line, insuring product reliability and averting further processing of substandard material.

**Corning Incorporated**

Address	One Riverfront Plaza 14831 Corning, NY USA
Phone	+1 607 9744146
Fax	+1 607 9744354
Internet address	www.corning.com
E-Mail	
Stand	Hall 09, D16-3



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### Unser Unternehmen

Wer sind wir? Was machen wir?

Zwei Männer, die an einer Glastafel zusammenarbeiten

Corning ist ein weltweiter Marktführer und Vorreiter auf dem Gebiet der Werkstoffkunde. Seit mehr als 160 Jahren nutzen wir unser unübertroffenes Fachwissen in den Bereichen Spezialglas, Keramik und optische Physik, um in Zusammenarbeit mit unseren Partnern neue Materialien, Produkte und Prozesse zu entwickeln, die aus dem täglichen Leben nicht mehr wegzudenken sind.

Anhaltende Investitionen in F&E, eine einzigartige Kombination aus Material- und Prozessinnovationen sowie eine enge Zusammenarbeit mit Kunden zur Bewältigung komplexer technologischer Herausforderungen begründen den Erfolg unseres Unternehmens.

#### Product Overview Corning Incorporated

wire.06.03.03      Optical Fibre Cables

#### Product Details Corning Incorporated

wire.06.03.03      Optical Fibre Cables

### Leuchtende Möglichkeiten



Corning Advanced Optics bedient verschiedene Märkte mit modernen optischen Lösungen. Corning's beispiellose Kompetenz in den Bereichen Spezialglas und optische Physik spiegelt sich in einem vielfältigen Produktportfolio wider - von Werkstoffen bis hin zu vollständigen Systemen - und schöpft aus einem breiten Kompetenzspektrum, um vielfältige Märkte, wie Luft- und Raumfahrt, Rüstung, Astronomie, Industrie, Medizintechnik, Augenoptik, Halbleitertechnik und Telekommunikation bedienen zu können.



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### Semiconductor Materials and Laser Optics



Corning's Advanced Optics is a leading global supplier of optical materials and optics for the semiconductor industry.

Corning produces fluoride crystals and fused silica that are optimized for transmission and durability at the harshest laser and radiation exposure levels. Corning also specializes in shaping components, including flats, prisms, lenses, mirrors, and optics — with specialized surface figures. Cutting-edge technologies for finishing and coating are available for maximizing optic lifetime for highly transmissive, highly reflective, or partially reflective optics.

### Specialty Fiber and Glass Polarizers



We Can Change the Way You See and Use Fiber

Corning's Specialty Fibers are used in a wide range of applications including fibers required for components in the well-established telecommunications market to the fibers required in emerging markets like medical, lighting and sensing applications and beyond. We can design custom fibers to support entirely new markets and innovations where fibers will be an essential component.

Our strategy is to look at fiber — the actual glass core and cladding, and the protective coatings — in terms of a matrix where each or all can be rapidly customized at our customers direction. We can do this in terms of size, optical properties, temperature/environment resistance, bend insensitivity, operating wavelength, buffer, etc.

If you don't see a particular fiber in our catalog that meets your needs, please contact us to discuss your unique requirements.

Our specialty fibers serve the following markets: aerospace and defense, geophysical, harsh environment, medical, sensing and lighting.



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## Corrosion Materials Inc.

Address	2262, Groom Road, P.O. Box 530 70714 Baker, LA USA
Phone	+1 225 7753675
Fax	+1 225 7740514
Internet address	www.corrosionmaterials.com
E-Mail	sales@corrosionmaterials.com
Stand	Hall 04, D04



### About us

Corrosion Materials has been supplying corrosion-resistant alloys for more than 40 years and has developed the resources, skills and inventory to satisfy the Process Industry's demanding needs. Corrosion Materials' commitment to quality is reflected in our ISO 9001-2008 Certification, our knowledgeable quality control staff, and our employees who understand our customer's requirements and are dedicated to handling customer's orders quickly, efficiently and accurately.

Corrosion Materials' commitment to service is recognized worldwide.

From anywhere in the world, call Corrosion Materials and challenge us with your high-alloy corrosion-resistant requirements - and see how Corrosion Materials sets the standard worldwide.

### Product Overview

Corrosion Materials Inc.

tube.01.03.04      Nickel



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## D.I.Wire / Pensa Labs

Address	20, Jay St. Suite 800 11201 Brooklyn USA
Phone	+1 718 8555354
Fax	+1 718 8556195
Internet address	www.pensalabs.com
E-Mail	sales@pensalabs.com
Stand	Hall 17, D59



### D.I.Wire / Pensa Labs

The D.I.Wire is the first desktop CNC wire bender that can be used for manufacturing and rapid prototyping. The D.I.Wire transforms lines into bent rod, wire or tubular forms quickly, accurately, and repeatably.

The D.I.Wire can bend various metals, allowing for the output to be used as the final product. Additionally, the build volume is limited only by the length of the wire. By being transportable, accessible and affordable, the D.I.Wire fills the market gap between time-consuming hand-bending and large scale, mass production CNC wire bending, which is too expensive for custom, short-run productions. This changes the dynamics of engineering education, as well as local, mass customized, prototype and just-in-time manufacturing for industries ranging from aerospace, automotive, medical, to consumer products.

The D.I.Wire was created by Pensa Labs, the R&D side of Pensa, an award winning design and invention firm located in the creative and technical hub of Brooklyn, NYC. We conceive, develop and engineer beautiful and rewarding new product experiences.

See more at Pensalabs.com.



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 www.wire.de / www.Tube.de

**Company Contacts**

D.I.Wire / Pensa Labs

**Department/Name      Address**

Chris Abbruzzese      D.I.Wire / Pensa Labs  
 USA-  
 Phone: +1-718-855-5354  
 cabbruzzese@pensalabs.com

**Product Overview**

D.I.Wire / Pensa Labs

wire.01.06.07      Bending

**Product Details**

D.I.Wire / Pensa Labs

wire.01.06.07      Bending

**DIWire**

**ONE OF A KIND**

It's a unique machine that bends lines in space.

**BIGGER IS BETTER**

Small machine, big build size. The only limits are your imagination.

**LIGHTNING SPEED**

It puts the rapid back in rapid prototyping.

**EASY AS Pie**

You draw, it bends. How easy is that?

wrench.jpg

aluminum.jpg

suitcase.jpg

glasses.jpg

**STRONG AS STEEL**

Bending abilities parallel to Superman.



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**MATERIAL OPTIONS**

Steel, aluminum, brass, oh my!

**TRAVEL SIZE**

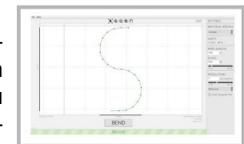
Small enough to use in an NYC apartment.

**COOL FACTOR**

The most stylish machine in your shop.

**WireWare**

WireWare prepares your files for bending on the DI-Wire. Just connect your DIWire to the computer, open any SVG or DXF file in WireWare, and press bend! You can also adjust files in WireWare by setting scale, resolution, and bend points. No programming or G-Coding necessary.



Simple bend setup

SVG and DXF file input

Scaling, resolution, and bend-point modification

Manual input mode through keypad or commands

Material calibration



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## Davis-Standard, LLC

Address	No. 1 Extrusion Drive 06379 Pawcatuck, CT USA
Phone	+1 860 5991010
Fax	+1 860 5998743
Internet address	www.davis-standard.com
E-Mail	info@davis-standard.com
Stand	Hall 09, A19



### About Davis-Standard

Davis-Standard, headquartered in Pawcatuck, Connecticut, USA, is the global leader in the design and manufacturing of high-performance plastics and rubber processing equipment, extrusion technology and converting systems. We are committed to engineering equipment that is cost effective, durable, and offers a high return on investment. Systems encompass over 10 product lines to support manufacturing applications and customers within every major industry.

We tailor solutions that impact every day life from food packaging to data cables to IV tubing. Davis-Standard extrusion manufacturing systems are a key component of the value chain within several key markets:

Packaging (flexible, rigid, aseptic, etc.) Construction Healthcare Agriculture Automotive Food and beverage packaging Electronics Energy Tape and label And more!

Our extrusion technology and processing equipment is engineered for every major process and globally available to our customers. We also offer a full range of extrusion aftermarket services.



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Product lines include:

**Aftermarket & Parts.** A full menu of extrusion aftermarket services including spare parts, extruder refurbishing, extrusion feedscrew services and extruder gearbox retrofits.

**Blown film.** Blown film extrusion equipment for film and foil extrusion, flexible films, greenhouse films, packaging films, stretch films and more.

**Blow molding.** Industrial blow molding machinery for processing both polyolefins and engineered thermoplastic.

**Cast film.** Cast film extrusion technology for coextrusion, multi-layer, and barrier film processes.

**Elastomer.** Turnkey elastomer extrusion systems, rubber extruders and roll feeders tailored to meet customer-specific hose, seal or tubing requirements.

**Extruders.** Extruders for every need and every extrusion applications ranging from single and twin screw extruders to specialty extruders to reclaim and elastomer extruders.

**Extrusion coating.** Cost-effective extrusion coating packages that support flexible packaging, non-wovens, paper and board coating, and laminating applications.

**Foam.** Single and twin screw extruders and tandem foam extrusion lines for multi-layered foamed PET sheet, PVC foam board and in-line foam extrusion processes.

**Liquid coating and lamination.** Custom machine designs for slow or high-speed applications, clean room environments, precision coating and drying technology, film or paper substrates and ultra thin to thick coatings.

**Pipe, profile and tubing.** Pipe, profile and tubing extrusion systems for telecommunications, construction and agricultural applications as well as medical ex-



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truder and medical extrusion line packages for tight tolerances and clean room environments.

Pelletizing. Our modular extrusion and pelletizing equipment address melt temperature, melt flow index and melt pressure.

Process Controls. Extrusion control systems for efficient, operator-friendly and consistent extrusion system operation.

Reprocessing and Compounding. Single screw compounding and reprocessing systems for low bulk density materials as well as chip, flake and regrind.

Sheet extrusion. Engineered systems for flexible and rigid sheet extrusion, and for applications up to nine layers.

Winding and unwinding. The industry's largest selection of continuous winding and unwinding systems and slitter rewinders for solution coating, extrusion coating, blown film, non-woven and specialty applications.

Wire and cable extrusion. Wire and cable extrusion for the building and construction, automotive, power cable and communication wire industries.

Exhibitor profile		Davis-Standard, LLC
Number of employees	500-999	
Business volume	200-499 Mio US \$	
Export quota	max. 50%	
Founding year	1848	
Business segment	Raw materials, tubes and accessories	



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www.wire.de / www.Tube.de

### Company Contacts

Davis-Standard, LLC

Department/Name	Address
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Doherty John	USA-06379 Pawcatuck, CT Phone: +1 860 5991010 Fax: +1 860 5998743 jdoherty@davis-standard.com
Christine Maxam	Davis-Standard, LLC USA-06379 Pawcatuck, CT Phone: +1 860 5991010 Fax: +1 860 5998743 cmaxam@davis-standard.com

### Company News

Davis-Standard, LLC

#### 12/15/2015 Davis-Standard at Wire Dusseldorf

Davis-Standard will feature its latest wire and cable technology during Wire Düsseldorf, April 4-8, 2016, in Hall 9, Booth A19. As the world's largest international forum for the wire and cable industry, Wire 2016 is an excellent venue for Davis-Standard to promote a new line of traversing and collapsible take-ups and pay-offs as well as capstan and extruder technology.



Davis-Standard's take-ups and pay-offs integrate simplified engineering and cost efficiency. With a smaller overall footprint and excellent operator ergonomics, these machines have been well received since their introduction in early 2015. Machine sizes range from 1,250mm to 5,000mm (48 to 195 inches) with the greatest concentration within the 1,800mm to 2,500mm (70 to 98 inches) size range. For international customers, machines are equipped with a Siemens AC drive, PLC and HMI with a Mitsubishi servo drive. For North American customers, machines feature a



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Yaskawa A-1000 AC drive and Allen-Bradley/Rockwell components that include a servo drive, PLC (programmable logic controller) and HMI (human machine interface). Technology is available as “stand-alone” (running in torque control) with a dancer or with an accumulator.

Davis-Standard has also seen ongoing demand for its caterpillar capstan and HPE extruder technology. Davis-Standard supplies multi-pass, linear and belt wrap capstans for the full range of wire and cable applications. The HPE offers a compact design and is one of the industry’s most widely used extruders. It is known for a fast delivery and rugged design that is energy efficient and easy to maintain. Advantages for wire and cable applications include increased torque capacity for high viscosity resins and custom options.

The ability to address market demand in terms of performance and cost efficiency is just one aspect of Davis-Standard’s Global Advantage™ in wire and cable. Another is Davis-Standard’s unmatched experience in supplying extruders and associated wire and cable equipment for more than 70 years. Applications include aerial cable, building wire, coaxial and composite cable, video pair cable, tray cable, CATV, THHN and THWN wire among others. For more information, visit [www.davis-standard.com](http://www.davis-standard.com).

**Product Overview**

Davis-Standard, LLC

wire.01.09.07 Cable extrusion machines

**Product Details**

Davis-Standard, LLC

wire.01.09.07 Cable extrusion machines

**Pay-Offs & Take-Ups**

Davis-Standard’s take-ups and pay-offs integrate simplified engineering and cost efficiency. With a smaller overall footprint and excellent operator ergonomics, these machines have been well received since their introduction in early 2015. Machine sizes range from 1,250mm to 5,000mm (48 to 195 inches) with the greatest concentration within the 1,800mm to 2,500mm (70 to 98 inches) size range. For international customers, machines are equipped with a Siemens AC drive, PLC and HMI with a Mitsubishi servo drive. For North American customers, machines feature a Yaskawa A-1000 AC drive and Allen-Bradley/Rockwell components that include a servo drive, PLC (programmable



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logic controller) and HMI (human machine interface). Technology is available as “stand-alone” (running in torque control) with a dancer or with an accumulator.

Davis-Standard has also seen ongoing demand for its caterpillar capstan and HPE extruder technology. Davis-Standard supplies multi-pass, linear and belt wrap capstans for the full range of wire and cable applications.

**Die Quip Corporation**

Address	5360 Enterprise Blvd. 15102 Bethel Park, PA USA
Phone	+1 412 8331662
Fax	+1 412 8356474
Internet address	<a href="http://www.diequip.com">www.diequip.com</a>
E-Mail	<a href="mailto:diequip@diequip.com">diequip@diequip.com</a>
Stand	Hall 09, D06-1



**About Die Quip**



Tom Maxwell founded Die Quip in 1974 as an equipment builder to make finishing dies faster and easier for an in-house die shop. Mr. Maxwell worked in a die shop for 20 years and saw the need for equipment that produced dies faster and more accurately, which is why

he started the company. His two sons Tom and Scott Maxwell are currently running the business since his retirement.

All of our equipment is designed using sound machine designs, time tested work holding methods and built on a rigid platform to consistently make heavy cuts. We are not a die shop that designed equipment for internal use for production of new dies. This makes our philosophy in building tungsten carbide draw die working equipment different than our competition. We have the widest diameter



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working range of any company in the industry and have products for the wire, bar and tube drawing industries.

**Product Overview**

Die Quip Corporation

wire.01.12.01	Drawing dies - repairing and machining
wire.01.12.02	Polishing drawing dies
wire.02.03.07	Cleaning, repairing and polishing drawing dies

**Product Details**

Die Quip Corporation

wire.01.12.02 Polishing drawing dies

**Die Flex MA**

Die Quip's Die Flex MA is the next generation of die finishing machinery that has the flexibility to work either the angle or bearing. The machine is perfect for die shops that produce a small number of dies per size were automation takes to long to set up. Combined with a manual or semiautomatic grinding machine the Die Flex MA will increase the productivity of any die shop.



**Die Flex XA**

Innovative design increases die production, flexibility and ease of use. Die Quip's Die Flex XA is the next generation of die finishing machinery that can do three times the work of traditional equipment. The robotic die changing and removable magazines give it the flexibility to work the angle, bearing or both without handling the dies. This continuous production prevents machine downtime and dramatically increases throughput with less overhead costs.



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**FM Finishing Machine**



The FM is a modern, die finisher designed to economically polish and size draw dies to a superior mirror finish. The internal polishing capacity is .020" to .400" (0.50-10 mm). The die geometry is controlled through preset machine settings which consistently polish each die the same giving repeatable results. Specially designed angle pin setup can polish angles and bearings with one tool reducing setup time and tooling costs. The polisher has 3" 3-jan chuck to hold 0-2.75" (0-70mm) dies and up to 60° included angle.

**Drawing Technology, Inc. (DTI)**

Address	1550 Elmwood Road 61103 Rockford, IL USA
Phone	+1 815 978-3624
Fax	+1 815 877-3627
Internet address	www.drawingtechnology.com
E-Mail	chuck@drawingtechnology.com
Stand	Hall 15, A26



Drawing Technology Inc.

**Drawing Technology Inc.**

From our beginning in early 2000, Drawing Technology Inc. (DTi) has been raising the bar in the Wire, Fastener and Concrete industries by focusing on every aspect of the machines we make and ensuring that our equipment is designed using the latest in technology. During this time, we've established ourselves as the premiere vendor in these industries by taking a "proactive" rather than a "reactive" role in addressing the customer's needs.



DTI brings a complete new approach to such things as safety, operator controls, electrical and mechanical design, after sale service and support. We introduced innovative features like lift off draw boxes, self-storing grippers, two hand two speed jog systems and PLC controls. In most cases these features are standard on our equipment. These, along with other functioning improvements, allowed us to include a three-year warranty on most components as standard on our wire drawing equipment. While continuing to work in the traditional wire and fastener industries, DTI has expanded into two completely new markets by designing such equipment as CNC servo press feeds for the press and stamping industry and high speed Mini Wire Mills to recoil and level wind wire for the concrete pipe and wire processing industries.

Our working relationships with production and special equipment manufacturers such as Shuster, Videx, FASTER Equipment Corp, Zublin, Barbarotto Machinery Group, Micro Welders, National Machinery, Nedschroef, Schluselbauer and others allow us to work together to ship complete turnkey systems to our customers. These relationships have established us as a leader in the industry in interfacing with OEM's and custom machine builders working in all phases of application engineering, design and installations.

We at DTI believe the best business is taking care of your business. Focusing on after the sale support is critical to building trust, and keeping your product flowing. If you are considering a new machine purchase, we invite you to get our customer list and see what they say about DTI.

We will stand behind our reputation as seen through our customer's eyes.



**Exhibitor profile** Drawing Technology, Inc. (DTI)

Number of employees	20-49
Business volume	1-9 Mio US \$
Export quota	max. 75%
Founding year	1999
Business segment	Measuring and control technology

**Company Contacts** Drawing Technology, Inc. (DTI)

Department/Name	Address
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**Product Overview** Drawing Technology, Inc. (DTI)

wire.01.03.01	Wire drawing machines (dry, fine, multi)
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**Product Details** Drawing Technology, Inc. (DTI)

wire.01.03.01	Wire drawing machines (dry, fine, multi)
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**Descaling Drawing and Recoiling Equipment**

Descaling Drawing and Recoiling Equipment

Full coil of .197 material in 30 minutes  
Coil at speeds up to 300 fpm  
Recoil on tubular carriers (3000# coil weight)  
Easy access doors for over head crane or fork-lift unloading  
Powered by low maintenance AC variable frequency drives  
PLC machine logic with 24 volt controls





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### In-Line Wire Drawing Machines:

Capstan sizes from 20 to 54 inch Draw wire diameters from .062 to 1.062 Powered by low maintenance, energy efficient, AC variable frequency drives



### Mini-mill Wire Recoiling

Coil at speeds up to 300 fpm Recoil on tubular carriers (3000# coil weight) Easy access doors for over head crane or forklift unloading Powerd by low maintenance AC variable frequency drives PLC machine logic with 24 volt controls



## E. H. Wachs



Address	600 Knightsbridge Parkway 60069 Lincolnshire, IL USA
Phone	+49 7731 792-0
Fax	+49 7731 792-524
Internet address	www.itw-ocw.com
E-Mail	tools@orbitalum.com
Stand	Hall 06, F40



### About Us

E.H. Wachs (www.ehwachs.com) manufactures the world's finest line of portable, industrial grade pipe machining tools, valve operators and high purity machining equipment. Founded in 1883 by Edward H. Wachs,



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E.H. Wachs was privately held before its 2009 acquisition by ITW. Our industrial weld prep machine tools are designed with the field machinist in mind, and are used for onsite cutting, squaring, beveling and facing on tube, pipe and vessels. Products include O.D. mounted split frame pipe cutters and bevelers, I.D. mounted end prep bevelers, flange facers, facing machines and handheld valve operators that are widely used in power generation, oil & gas and pipeline distribution. All Wachs machine tools are manufactured under the ISO 9001 Certified System in our Lincolnshire headquarters, located outside Chicago, IL.

Sold and supported worldwide (with most available as rentals), Wachs machine tools are individually hand assembled and fully tested by our master craftsmen before shipment. Purchase or rent any E.H. Wachs product with confidence, knowing you have Superior Equipment. Complete Support.

### Company Contacts

E. H. Wachs

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### Product Overview

E. H. Wachs

tube.02.05.03	Sawing, separating, laser cutting
tube.02.05.06	Drilling, turning, chamfering, pointing
tube.09.01.01	Machinery and equipment



**Product Details**

E. H. Wachs

tube.02.05.03

Sawing, separating, laser cutting

**Guillotine Pipe Saws**

E.H. Wachs family of portable Guillotine pipe saws are designed to cold cut 2” through 32” (DN50-800) pipe, as well as solids such as bar stock, rails and beams. Their compact design and quick setup make it the ideal saw for contractors, pipeline operations, refineries, petrochemical and processing plants, and anywhere a fast, safe cut is needed. In use virtually everywhere, they’re strong yet light, simple to mount, simple to operate and simply bulletproof.



The four Guillotine® models available, from smallest to largest, are the Super C, Model D, Super D and Goliath. All set up quickly with a positive chain mounting system that uses a machined cast iron “V” saddle for perfectly square cuts. Operation is easy with finger-tip feed control, and all use an orbital cutting motion that lifts the blade on the return stroke, dramatically extending blade life. From simple to difficult, pipe to solids, carbon to stainless, safe to hazardous, above water or below, whatever the cutting task Wachs has a Guillotine pipe saw for the job.

**Split Frames**

E.H. Wachs Split Frames are the world’s most versatile and comprehensive line of clamshell style portable pipe cutting and beveling machine tools on the market today. Designed to cut, bevel, single point, counterbore and face flanges on pipe and tubing ranging from .5 to 84 inches O.D. (DN15-2100) on most wall thicknesses and materials, Wachs has a split frame to fit most size pipe, tube or vessels.



Our split frames are named for their ability to split in half at the frame, or “break open” and bolt back together again. This allows them to open and mount around the O.D. of inline piping, or they can be slipped closed over open ended pipe. All Wachs split frames are built to last a lifetime and engineered to apply precise, consistently square cuts and bevels the first time, every time.



**Trav-L-Cutter**



When E.H. Wachs is mentioned, the product that often comes to mind is our famous Trav-L-Cutter. First introduced in 1949 it revolutionized industrial cold cutting piping procedures with its simple but effective operation. Secured to the pipe by a special tensioning/drive chain, the Trav-L-Cutter drives itself around the pipe as it simultaneously cuts and bevels, providing a machined surface ready for welding.

The Trav-L-Cutter is ideal for severing and beveling all common pipe materials, wall thicknesses and sizes from 6” (DN150) on up. Its special milling blades, with standard weld bevel capabilities of 30° & 37.5° removing 188” (4.8mm) of metal during operation, leaves the pipe ends with a fine milled finish with no heat affected zone (HAZ).

**FABTECH**

Address	833 Featherstone Road 61107 Rockford, IL USA
Phone	+1 313 425-3000
Fax	
Internet address	www.fabtechexpo.com
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Stand	Hall 06, C29-02



**About us**

North America’s largest metal forming, fabricating, welding and finishing event will be held at the Georgia World Congress Center, Atlanta, GA, USA. The upcoming event is expected to cover more than 500,000



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net square feet and anticipates over 27,000 attendees and 1,400 exhibiting companies.

FABTECH provides a convenient 'one stop shop' venue where you can meet with world-class suppliers, see the latest industry products and developments, and find the tools to improve productivity, increase profits and discover new solutions to all of your metal forming, fabricating, welding and finishing needs.

**Exhibitor profile** FABTECH

Number of employees	50-99
Business volume	-
Export quota	-
Founding year	
Business segment	

**Company Contacts** FABTECH

Department/Name	Address
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Jim Gorzek	Phone: 815 399 5700 jimg@fmanet.org

**Product Overview** FABTECH

tube.07.11	Trade literature, publications
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**Product Details** FABTECH

tube.07.11	Trade literature, publications
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**Manufacturing® Engineering**

SME publishes Manufacturing ® Engineering, a publication of Advanced Manufacturing Media.



**MetalForming**

Published by The Precision Metalforming Association (PMA) publishes MetalForming.



**The FABRICATOR®**

Published by FMA Communications, Inc., the publishing affiliate of the Fabricators & Manufacturers Association, International® (FMA).





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## Fastener Technology International

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E-Mail	info@fastenertech.com
Stand	Hall 09, D16-7



### About us

Fastener Technology International is a bimonthly international technical magazine for manufacturers, distributors and users of all types of fasteners. Fastener Technology International puts you in touch with the key decision makers...worldwide. Every issue includes a magazine-in-a-magazine section called Fastener Focus for fastener distributors, OEMs and users.

Our editorial package is a blend of technical, managerial, and general interest articles designed to meet the informational needs of the fastener industry with special emphasis on new technology that relates to increased productivity, improved quality and lower cost. Fastener Technology International also covers the latest news of the industry as well as a calendar of upcoming events.

Over 13,000 regular readers read Fastener Technology International for its comprehensive coverage of the industry.

Fastener Technology International also publishes an annual Buyers' Guide, the industry's most complete reference source for decision makers to fill their needs for rod, bar and wire and mill products, as well as wire products, machinery, equipment, supplies, electric wire and cable and fiber optics.



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Internationale Fachmessen  
www.wire.de / www.Tube.de

### Company Contacts

Fastener Technology International

#### Department/Name Address

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mcnulty@fastenertech.com

### Product Overview

Fastener Technology International

wire.07.09 Trade literature/Publishers

### Product Details

Fastener Technology International

wire.07.09 Trade literature/Publishers

### Fastener Focus

Fastener Focus, the "magazine in a magazine" delivers extensive coverage of the distribution, OEM and end-use of fastener products. Fastener Focus is concentrated on how fastener products are marketed, distributed and applied. In addition to targeted editorial coverage, Fastener Focus will provide feature coverage along with bonus distribution at important industry events and the FREE Company Profile bonus in the August issue. If you are looking to reach the DISTRIBUTION, OEM and END USER channels of the fastener industry, Fastener Focus delivers the exclusive coverage, readership and results you would expect from the industry's leading publication.





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Internationale Fachmessen  
www.wire.de / www.Tube.de

### Fastener Technology International

Fastener Technology International is a bimonthly international technical magazine for manufacturers, distributors and users of all types of fasteners. Fastener Technology International puts you in touch with the key decision makers...worldwide. Every issue of Fastener Technology International includes a magazine-in-a-magazine section called Fastener Focus for fastener distributors, OEMs and users.



### Wire & Cable Technology International

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. Wire & Cable Technology International magazine is the independent voice of the wire and cable industry, and it includes a quarterly magazine-in-a-magazine section called Wire & Cable Connector for the wire processing sector.



## Fenn, LLC

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Stand	Hall 09, E10-3



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www.wire.de / www.Tube.de

## FENN



Company Name: FENN

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Fax Number: +1-860-259-6601

Email: sales@fenn-torin.com

Website: www.fenn-torin.com

STAND NO at Wire Dusseldorf: 9E10-3

Exhibit personnel: Nelson Ferguson, Namdeo Ranjane, Ryan Cutter

Fenn has been a leader in providing quality metal forming machinery for over 100 years. Our experts take the time to design and build the right machine to fit your specifications and fulfill your production requirements. Whether you've been in business as long as us, or you're just getting started, Fenn has the expertise to create precise metal forming equipment for a wide variety of industries and applications. With specialization in both standard and specialty metals, see how Fenn's product and service offerings can help increase productivity for your business.

### Company Contacts

Fenn, LLC

Department/Name	Address
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## Company News

Fenn, LLC

### 01/15/2016 **FENN Celebrates 115 years of Metal Forming Excellence**

Fenn Manufacturing celebrates 115 years in the metal forming industry

FENN is a global supplier of innovative, state of the art metal forming machinery with 2015 marking 115 years of experience in the industry. With new owners and innovative research and development initiatives, FENN is the talk of every industry tradeshow. This 115-year-old company has refreshed its business from the bottom up, with forward looking plans for the new year.



#### FENN's Long and Illustrious History

In 1900, Wilson Fenn founded FENN Technologies, a small machine shop in Connecticut, USA. In addition to metal forming machinery, FENN also produced flight critical assemblies for aircraft. In 2003, FENN acquired BHS-Torin of Connecticut, which itself is a company 4 years older than FENN. Also a supplier of rolling mills, wire flattening & shaping equipment, and the well-known Torin® brand of spring coilers, FENN was able to add additional experienced staff and product offerings to FENN. In July of 2014, FENN was sold by SPX to Quality Products Inc. (QPI). Today, FENN is still headquartered in Connecticut, USA with agents available across the globe to provide world class sales and service to support their customer's projects and goals.

#### A President with Decades of Industry Knowledge

Paul Uccello has been dedicated to Fenn and its parent companies for a total of 8 years. Paul has 28 years of experience in aerospace and manufacturing companies prior to working with Fenn. Paul received his bachelor's degree from Eastern Connecticut State University, moving on to receive an MS and MBA at Rensselaer Polytechnic Institute. Paul also attended Harvard Business School's program for Management Development. Paul's education, combined with his knowledgeable experience in Lean manufacturing, Aerospace, Operations Management and most importantly metal forming machinery have helped to continuously improve Fenn's processes to better serve their client base.

#### Product lines

FENN provides a complete line of metal forming equipment, working with each customer to create a customized machine suited to their specific application. Examples of these equipment include Rolling Mills for hot or cold rolling of ferrous and nonferrous strip or wire, and Wire Flattening & Shaping Lines to form

natural flat or shaped wire. Examples of applications for wire shaping machines include well screen wire as well as photovoltaic wire for solar applications.

FENN also produces Turks Heads for forming a variety of shapes directly from round wire at high production speeds, Torin® Spring Coilers to produce several types of springs on a single machine as well as Drawbenches for straight length die drawing and Swagers for reduction forming of tube, rod or wire.

FENN is unique in that it offers a wide range of spare parts with prompt service on stock or replacement parts. Fenn also offers the option of upgrades and remanufactures for mechanical and/or electronic rework of older machines. These options allow the customer who may not be able to purchase a new machine increase the safety and efficiency of their aged machine while minimizing maintenance time and costs.

#### Major Clients

FENN has had the pleasure of serving several companies within the India market including:

- Bilfinger Water Technologies of Gandhinagar, India
- Indian Institute of Technology of Hyderabad, India
- AMPRI of Bhopal, India
- Apollo of Gandhinagar, India
- Indo Schottle of Pune, India

FENN is currently serving a variety of in demand industries including wedgewire for wellscreens in water wells, PV line for the solar industry, and thin fine wire for the medical industry.

#### Production Facilities

With QPI's backing and support, FENN recently upgraded to its new facility in East Berlin, Connecticut. FENN's new state of the art manufacturing facility has a conveniently located die shop in house utilizing craftsmen with years of experience in high quality spare parts. FENN's well-appointed office area has enabled them to better serve their clients. The new facility has an additional second floor with generous space available as the company continues its plans for growth.

In September of 2015, Over 100 customers, vendors, local government officials and industry friends gathered at their new facility to celebrate the move and their 115 year history. The event started with a ribbon cutting ceremony in the morning led by QPI's Chief Executive Officer David Somers, along with Fenn's full staff and government dignitaries in attendance. In the afternoon FENN hosted guests with shop tours, educational sessions about each of their



product lines, including Wire Flattening and Shaping lines, Rolling Mills, Spring Coilers, Swagers, Drawbenches and Turks Heads. Each product line was represented with an actual working machine for demonstration. Fenn also provided educational outlines about spare parts, upgrade & remanufacture, and service & training capabilities. "We hosted catered hors-d'oeuvres, an open bar and a beautiful dinner for all of our guests." said Paul Uccello, President at FENN. "It was a successful event, and provided Fenn with the opportunity to show both its local and industry communities what our operation is all about. We are very proud that we have remained competitive in providing metal forming solutions for the last 115 years, and look forward to the next 115!"

#### Growth Plans for the 2016 year

Due to significant investment from QPI, Fenn is able to focus on long term growth and investment in research and development. With Fenn's commitment to growth they have hired ten new employees this year alone, adding support to all departments including Engineering, Sales, Marketing, Operations, and Finance.

#### Research and Development Undertaken

The first major research and development project FENN has undertaken in 2015 was a redesign of its Torin FZ series spring coiler (shown at left). The Generation 2 machine offers customers speed, versatility, and reliability with added features for increased efficiency.

In order to manage all of its research and development projects, Fenn has designed a strategic road map. The sales, product development, and engineering teams will work closely together to manage the designated research and development projects and ensure milestones are met. These projects will include additional enhancements to the Spring Coiler, Swagers, Rolling Mills and Wire Shaping Lines.

#### Overview of the Global Wire and Cable Market 2016

With a new location, additional staff, and increased product offerings, Fenn is optimistic about what 2016 has to offer, "Based on the higher volume of inquiries in a variety of markets including medical, precious metal, solar and wellscreen, we feel 2016 will be a very busy year for the wire and cable market" Fenn Sales Engineer Thomas Mushroe shared. With their upgraded facility, new ownership and exciting road map for upcoming years, Fenn is very optimistic about 2016. If you'd like to learn more about Fenn and the applications they serve, visit them at Fenn-Torin.com.



### Product Overview

Fenn, LLC

wire.01.02.01	Hot rolling
wire.01.02.02	Cold rolling
wire.01.06.15	Spooling and unspooling of flat wire
wire.01.08.01	Simple spring manufacturing machines (for bed, curtain, mattress springs)
wire.01.08.03	Tension spring machines
wire.01.08.05	Leg and shaped spring machines
wire.02.06.04	Turks head rolls
wire.02.10	for chipless shaping
wire.06.02	Wire manufacturing machines

### Product Details

Fenn, LLC

wire.01.02.01	Hot rolling
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#### Strip Rolling Mills

Fenn manufactures a complete line of precision engineered Rolling Mills for ferrous, non-ferrous, alloy and exotic metals as well as the growing field of engineered materials, in sheet, strip, wire or rod. Our wide range of standard and custom sizes meet practically every rolling need, from heavy ingot breakdown to high speed strip and wire flattening. Fenn laboratory models are widely used by research facilities and universities for metallurgical development and primary metal producers for pilot run process enhancement. Our family of satisfied customers includes many prominent names in the industry. The fine reputation enjoyed by Fenn Rolling Mills is the result of many factors of great importance to the





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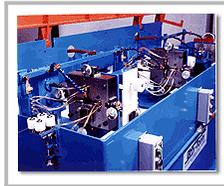
customer, notably advanced design, dependability, versatility, precision engineered and precision built with scrupulous attention to quality and 100% conformance to requirements. Fenn's has design and manufactured a range of precision narrowstrip rolling mills suitable for rolling ferrous and non-ferrous metals. Features include 2Hi and 4Hi roll configuration, available either work roll or back up roll driven or a combination of both. Small 4Hi mills with works rolls from .500" (12.7mm) diameter up to 2Hi mills with a 16" (400mm) diameter rolls are included in this versatile line Some Applications Include: Breakdown rolling either straight lengths or coil to coil Finish rolling to close toleranced thin gauge Powder Metallurgy Rolling Bonding dissimilar metals together Camber correction of BI-metal strip after Electron-beam welding With our strip rolling expertise and design flexibility we can manufacture the most economical mill to meet your particular needs. Fenn welcomes the opportunity to serve you!

wire.02.06.04

Turks head rolls

#### Turks Heads

The Turks Head is a metal forming machine. It may be compared to an adjustable draw die but is actually infinitely adjustable within its limiting dimensions. The Turks Head operates on the Rolling Mill principle and imparts the same qualities to the metal as the Rolling Mill does, namely, superior surface finish, accurate size and shape, and improved grain structure of the metal.



The Turks Head differs from a Rolling Mill in the number and arrangement of rolls. The Turks Head utilizes two pair of rolls, one pair is arranged vertically and the other pair horizontally. In all types of Turks Heads the rolls are infinitely adjustable.

Each basic type of Fenn Turks Head is designed to meet a particular requirement of precision wire or rod shaping. With the exception of power-driven models, all types require a pull-through power source such as a Drawbench, a Bull Block, a double capstan, a shedding drum or a Rolling Mill.

To obtain high production speeds and hold tolerances within acceptable limits, certain basic operating rules must be followed. Proper application of Turks Head equipment cannot be overemphasized. It must be understood the Turks Head is not intended to be substitute for a Rolling Mill. However, certain fundamental rules are applicable to both machines where size control, surface finish, accessories or combination use is concerned.

wire.06.02

Wire manufacturing machines

#### Drawbenches



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Fenn designs and manufactures a full line of wire, rod and tube processing Drawbenches. Available are both hydraulic cylinder and motorized chain type units along with a full selection of features and accessories. Drawbenches are used for straight length die-drawing of round rod, wire or tube and also, if used with a Fenn Turks Head, for producing straight lengths of shaped rod or wire.



All units can be provided with any of the following features to suit the application:

Manual or Hydraulically Actuated Grippers with removable tooling for wear replacement and tooling changes for various wire sizes Single or Double Die Boxes, statically mounted or fully articulating Dry and/or Wet Lube Systems Turks Head Mounting Provisions Draw Pull Force Measurement and Readout Full Draw-Cycle Automation Safety Covers, Guarding and Electrical Interlocks Roll or Swager Type Pointers Material Handling Systems

#### Fil-Tec, Inc.



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E-Mail	rhernandez@fil-tec.com
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#### Company Profile

Our business has grown by providing quality products at a fair price. We strive to manufacture innovative



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products that solve customer problems and increase customer productivity. We strive to be honest and fair with both customers and suppliers and treat both as we ourselves hope to be treated. We recognize the unique value of our employees and, as such, we must motivate each team member to provide exceptional service to our customers by supporting their development and providing opportunities for their growth. Satisfying our customers with innovative, quality products at a fair price that are manufactured and sold by a motivated group of employees will bring growth and long-term profitability.

**Exhibitor profile** Fil-Tec, Inc.

Number of employees	100-499
Business volume	–
Export quota	–
Founding year	1978
Business segment	Rebuilt and Reconditioned Machinery

**Company Contacts** Fil-Tec, Inc.

Department/Name	Address
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**Product Overview** Fil-Tec, Inc.

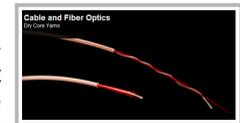
wire.04.08.01	Armouring and filler yarns for cables
wire.04.08.01.01	Waterswellable yarns
wire.04.08.02	Yarns for steel ropes

**Product Details** Fil-Tec, Inc.

wire.04.08.01	Armouring and filler yarns for cables
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**Dry Core Yarns**

Lower Cost Per Yard Our unique coating technology allows us to secure large amounts of super absorbent polymer onto a yarn. Thus, we are able to achieve high absorption capacities using smaller size, high yield yarns. In fact, our core yarns have up to twice the yield (yards per lb.) when compared to other products used in the market. Absorption Capacity Our Dry Core Series products have an absorption capacity of 45X+ while the HY Series have an absorption capacity of 40X+. Longer Continuous Cable Production Our high yield results in more meters per package compared to other products with similar total absorption capacity. Thus, longer cable production runs are possible resulting in increased efficiency. Clean Running Unique polymer adhesion technology results in a product with minimal dusting or powdering. This improves cable quality, diminishes machine downtime for cleaning and reduces machine wear caused by abrasive SAP polymers.



**Marker Yarns**

Marker Yarns – Non–Wicking

Our non–wicking marker yarns come in tacked packages, eliminating sloughing or ballooning as the yarn feeds off the package. Plus, our high yield product means lower cost per yard. These yarns are available in more than 10 colors .





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wire.04.08.01.01

Waterswellable yarns

### Water-Swellable Binders

Fil-Tec's "next generation" binders are designed to perform on the most demanding, highest speed production lines. Our water swellable binders comprise a high tenacity, multi-filament yarn with a dispersion of super absorbent polymer that is adhered to the fiber.



Fil-Tec's patent pending binders offer the following advantages:

Increased absorption capacity and swell rate Highest absorption capacity of any product offered (up to 7500%)

Fast initial swell rate for enhanced water blocking

Lower Cost Per Yard Unique bonding technology

Over twice the yield of comparative products used in the market

Increased Efficiency Twice the meters/package = longer continuous cable production runs

High Speed Production Tacked packages provide uniform draw-off tension

Clean Running Unique polymer adhesion technology = minimal dusting/powdering

Improved cable quality

Less machine downtime for cleaning

Less machine wear caused by abrasive SAP polymers



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### Fine International Corp.

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Fax	+1 732 9334005
Internet address	<a href="http://fineinternational.net">fineinternational.net</a>
E-Mail	<a href="mailto:finesales@gmail.com">finesales@gmail.com</a>
Stand	Hall 09, D16-1



### The Foam Extrusion Experts

Fine International Corporation headquartered in Tinton Falls, New Jersey, USA is a specialized machinery supplier to wire and cable manufacturers. Our specialty is the supply of primary extrusion lines based on proprietary physical foam technology. These lines manufacture foamed insulation products used for CATV coaxial cable, LAN category cable, minicoax cable and RF microwave cable. In addition to our foam extrusion lines, Fine supplies jacketing lines, high speed rotary braiders, planetary and SZ stranders, packaging lines (spool and reeless type) TIG aluminum welding lines and extrusion line components (inductive/gas preheaters, payoffs, capstans, accumulators, takeups, cooling water systems).

Fine International Corporation is also a supplier of high performance CATV coaxial cable based on our foam technology from our overseas factories. A full range of coaxial cable products is available ranging from drop cable to trunk cable. Products are manufactured to ISO or US specifications in our ISO-9001 certified manufacturing facilities.

In 2006, Fine started up our cable materials division that offers aluminum foil tapes typically used for shielding applications in many cable designs. For a full range of our equipment offerings, coaxial cable products or tape products, please click on the appropriate subject at the following menu.



Our company has recently established reliable and mutually beneficial collaboration with some American software companies f.e. Itransition software development company in Austin.

**Product Overview**

Fine International Corp.

wire.01.04.13	Preheater
wire.01.06.01	Coiling, winding
wire.01.06.02	De-coiling, unwinding
wire.01.06.03	Spooling
wire.01.09.02	Cable sheathing and insulating
wire.01.09.03	Stranding
wire.01.09.04	Twisting, bunching
wire.01.09.07	Cable extrusion machines
wire.01.12.06	Fibre optic manufacturing machinery
wire.01.12.10	Fiber colouring systems/plants
wire.02.09.01	Complete welding wire lines
wire.04.09.01.01	Shielding nonwoven tapes



**Product Details**

Fine International Corp.

wire.01.06.03

Spooling

**Wire and Cable Machinery Division**

Fine International's wire and cable machinery division was started in 1995 as a specialized supplier of high pressure gas injection systems used in physical foam extrusion applications. The most common application for the system is the preparation of foam insulation used in the coaxial cable marketplace.



Since our inception, Fine International Corporation has progressively expanded our offerings into the wire and cable marketplace. In early 2001, Fine International opened a joint-venture in Shanghai, P. R. China (Shanghai Fine Machinery Company) that further enhanced our capabilities. We now offer the fundamental components of a wire and cable extrusion line in addition to fully integrated extrusion lines.

**Fine International Corp.**

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Stand	Hall 09, F25



**The Foam Extrusion Experts**

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supplier to wire and cable manufacturers. Our specialty is the supply of primary extrusion lines based on proprietary physical foam technology. These lines manufacture foamed insulation products used for CATV coaxial cable, LAN category cable, minicoax cable and RF microwave cable. In addition to our foam extrusion lines, Fine supplies jacketing lines, high speed rotary braiders, planetary and SZ stranders, packaging lines (spool and reeless type) TIG aluminum welding lines and extrusion line components (inductive/gas preheaters, payoffs, capstans, accumulators, takeups, cooling water systems).

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Fine International Corp.

wire.01.04.13 Preheater

wire.01.06.01 Coiling, winding

wire.01.06.02 De-coiling, unwinding

wire.01.06.03 Spooling



wire.01.09.02 Cable sheathing and insulating

wire.01.09.03 Stranding

wire.01.09.04 Twisting, bunching

wire.01.09.07 Cable extrusion machines

wire.01.12.06 Fibre optic manufacturing machinery

wire.01.12.10 Fiber colouring systems/plants

wire.02.09.01 Complete welding wire lines

wire.04.09.01.01 Shielding nonwoven tapes

**Product Details**

Fine International Corp.

wire.01.06.03

Spooling

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## Fisk Alloy Inc.



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### About Us

Our business is the development and manufacture of high performance copper and copper alloy wire for electronic components and conductors.

Fisk is committed to advancing copper alloy wire technology so as to provide innovation, excellence and value in all of our

wire products.

### Exhibitor profile

Fisk Alloy Inc.

Number of employees	–
Business volume	–
Export quota	–
Founding year	1973
Business segment	Process technology tools and auxiliaries

### Company Contacts

Fisk Alloy Inc.

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### Product Overview

Fisk Alloy Inc.

wire.04.03.02	Nickel
wire.04.03.03	Copper
wire.04.03.04	Brass, bronze
wire.04.03.06	Tin
wire.04.04.01	Beryllium
wire.04.04.02	Gold, platinum, silver
wire.04.04.08	Zirconium
wire.04.04.12	Magnesium
wire.04.05.01	Bolts, rivets, cold extruded parts
wire.04.05.02	Springs



wire.04.05.03	Wire ropes, wire strands, cables
.....	
wire.04.05.10	Other (medical purposes, music, packaging)
.....	
wire.04.05.12	Wire products for use in the automotive and aircraft industries
.....	
wire.04.05.16	Profiled wire
.....	
wire.04.05.17	Rolled wire

**Product Details**

Fisk Alloy Inc.

wire.04.03.03

Copper

**Copper alloy wire**

Copper alloy wire has been around for a long time, but copper alloy wire of exceptional quality and dependability in robust applications is rare. That's especially true in enhanced, high-performance materials manufactured to solve specific engineering problems. Fisk has been able to produce so many best-in-class products because our employees draw on deep technical expertise, vast resources and that rarest of human elements: great patience.



wire.04.05.12

Wire products for use in the automotive and aircraft industries

**Wire Engineered for Aerospace Applications**

When downtime guzzles profits and failure is not an option, specify Fisk high-performance copper alloy wire. Whether designed into engine harnesses that expose cables to extreme heat, external wing sections that are buffeted by equal extremes of heat and cold, or IFE seat systems that withstand daily manipulation, Fisk wire is engineered to meet the relentless requirements of aerospace applications. Our breadth of wire and conductors are designed to afford higher flex life, higher conductivity, greater reliability or resistance to thermal softening to meet and exceed our customers' specifications. And do so in fine gauge sizes whose reduced weight saves fuel.



**Wire Engineered for Automotive Applications**



The operating regimes within today's automobiles are as demanding, diverse and mission-critical as those in any industry—including aerospace—and Fisk's alloy selection and surface finishes are equal to the task. So if, say, your design's anti-lock brakes require cable systems with uncommon flex life, the suppleness to facilitate assembly and service, ever-finer gauges to reduce weight and fuel use—and impeccable conductivity—the choice is simple: Fisk.

**Fives Bronx, Inc.**



Address	8817 Pleasantwood Ave NW 44720 North Canton, OH USA
.....	
Phone	+1 330 2441960
.....	
Fax	+1 330 2441961
.....	
Internet address	www.fivesgroup.com
.....	
E-Mail	fivesbronx-sales@fivesgroup.com
.....	
Stand	Hall 06, G22



**Fives**

Fives, an industrial engineering Group, designs and supplies process equipment, production lines and turnkey plants for the world's largest companies in the steel, aluminium, glass, automotive, logistics, cement and energy sectors.



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For the steel industry, Fives offers a range of expert services from the layout of a facility to refurbishing equipment services, including the design, manufacture and retrofit of mechanical, thermal, tube & pipe mills, finishing equipment and the supply of surface treatment technologies.

In 2013, Fives is forecasted to achieve sales of €1.7 billion and to employ 8,000 people in over thirty countries, with 1,200 employees dedicated to steel applications and the capacity to coordinate projects across the globe.

Fives Bronx, Inc.

Fives' offer for tube & pipe and long product industries includes internationally recognized technologies and solutions such as Bronx straighteners, Abbey and OTO tube & pipe mills, and Taylor-Wilson finishing equipment, which provide custom engineered solutions unique to a fully integrated, single source supplier. This combination of resources and infrastructure utilizes the most recent developments in tube and pipe mill technology, delivering reliable finishing solutions for a wide range of seamless and welded products.

Fives' installations can include Bronx 6 and 10 roll tube & pipe straighteners, Taylor-Wilson hydrostatic pipe testing, collapse testing and leak testing machines and a complete line of end facing and rotary cut-off equipment. Fives' Abbey mill offer features the best in ERW pipe mills, entry systems, tube and pipe cutoffs, slitting machines and drawbenches. Our engineers incorporate parametric modeling software and FEA (finite element analysis) into the design of our machines to help us stay at the forefront of innovation. New designs and custom specifications "come to life" through this process to supply our customers with the best possible equipment solutions.

Bronx, Taylor-Wilson and Abbey products are represented by Fives' offices in North Canton, Ohio, U.S.A., West Midlands, U.K., Shanghai, China and Mexico.



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#### Exhibitor profile

Fives Bronx, Inc.

Number of employees 500-999

Business volume 1-9 Mio US \$

Export quota max. 50%

Founding year 1818

Business segment Tube manufacturing machinery, Specialist areas, Pipeline and OCTG Technology, Profiles and machinery

#### Company Contacts

Fives Bronx, Inc.

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**Product Overview**

Fives Bronx, Inc.

tube.02.02.06	Push and drawing benches
tube.02.02.08	Tube rolling mills
tube.02.02.11	Sizing mills
tube.02.03.01	Tube forming equipment
tube.02.03.02	Tube welding equipment
tube.02.03.11	Inside and outside scarfing systems for longitudinally welded tubes
tube.02.03.12	Strip shaving equipment for aluminised or galvanised skelp
tube.02.05.02	Straightening
tube.02.05.06	Drilling, turning, chamfering, pointing
tube.02.05.21	Horizontal strip accumulators
tube.02.05.24	Flying Shears, High-Speed
tube.03.05	Tube processing and finishing equipment
tube.06.02.05	Leakage testing
tube.06.02.08	Hydrostatic tube testing
tube.07.02.03.04	Coiling and uncoiling (reels etc.)
tube.09.07	Welding equipment ERW, Spiral, Seam, MIG TIG



tube.10.01.01	Steel profiles
tube.10.01.02	Stainless steel profiles
tube.10.02.01	Profile Machinery
tube.10.02.03	Profile roll forming machines

**Fort Wayne Wire Die, Inc.**



Address	2424 American Way 46809 Fort Wayne, IN USA
Phone	+1 260 7471681
Fax	+1 260 7474269
Internet address	www.fwwd.com
E-Mail	sales@fwwd.com
Stand	Hall 12, A27



**About Us**

Always a Wire Die Leader

Fort Wayne Wire Die has historically been the birthplace of technology that drives the wire drawing and wire die industries.

From the first wire die manufacturing equipment and processes developed in the 1930s, to the ongoing engineering advancements that have marked the industry's evolution ever since, Fort Wayne Wire Die has always stood at the forefront.

Today, with four manufacturing locations, two additional sales offices and 19



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more sales rep firms positioned around the globe. Fort Wayne Wire Die extends this uniquely historic wire die engineering and applications expertise to the world.

### Company Contacts

Fort Wayne Wire Die, Inc.

Department/Name	Address
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### Product Overview

Fort Wayne Wire Die, Inc.

wire.02.02.01	Extrusion dies
wire.02.03.01	Diamond drawing dies
wire.02.03.02	Hard metal drawing dies
wire.02.03.04	Polycrystalline drawing dies
wire.02.03.07	Cleaning, repairing and polishing drawing dies
wire.02.03.09	Tube and rod drawing dies

### Product Details

Fort Wayne Wire Die, Inc.

wire.02.03.01	Diamond drawing dies
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#### Single Crystal Diamond Dies

For fine wire and ultrafine wire applications demanding a superior wire surface finish, nothing performs better than a single crystal natural or synthetic diamond die from Fort Wayne Wire Die.



The first to use diamond x-ray orientation, Fort Wayne Wire Die is uniquely skilled



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at properly mounting the diamond inside the die casing to ensure precise profiling, exceptionally accurate hole sizing and maximum wearability that all combine to yield unmatched wire quality.

You get the very best performance for optimum wire reduction uniformity and wire roundness, minimum die pull and virtually flawless wire surface finish.

wire.02.03.04	Polycrystalline drawing dies
---------------	------------------------------

#### Poly-Di® Polycrystalline Diamond Dies

When die life and wire production efficiency take precedent over wire surface finish, consider a Poly-Di wire die.



Poly-Di wire dies are manufactured with polycrystalline diamonds, a durable synthetic material with a highly polished surface finish that minimizes friction for an exceptional resistance to die wear, cracking and breakage.

You get significantly longer die life, excellent wire roundness and highly predictable die wear with a good wire surface finish.

wire.02.03.09	Tube and rod drawing dies
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#### Wire Drawing Extrusion Tips and Dies

Extrude insulation onto your wire, cable or fiber-optic cable with exceptional precision and uniformity using Fort Wayne Wire Die extrusion tips and dies.



Each custom-manufactured tip and die is individually engineered with unique applications expertise, then 100% tested for concentricity verification, to ensure proper wire centering. The end result is an insulated wire with uniform insulation thickness and precise conductor centering that provides the correct electrical characteristics in your finished product.



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## Galaxie Corporation



Address	4935 Hannan Road 48184 Wayne, MI USA
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Internet address	www.galaxiecorp.com
E-Mail	machking@galcorp.com
Stand	Hall 06, G19



### Worldwide dealer of used coil processing equipment

Galaxie Corporation is a worldwide stocking dealer of used coil processing and tube equipment. With 2 warehouses in North America and equipment located in Europe and Asia, Galaxie strives to have countless machines on hand, or available on a liquidation basis out of users plants. This is the 8th time we have exhibited at the Tubes Show in Dusseldorf, please stop by with your inquiries, or tell us what you have for sale.

### Exhibitor profile

Galaxie Corporation

Number of employees 1-19

Business volume -

Export quota -

Founding year 1985

Business segment

### Company Contacts

Galaxie Corporation

#### Department/Name Address

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**Product Overview**

Galaxie Corporation

tube.02.02.01	Cold rolling mills
tube.02.02.07	Pilger mills
tube.02.02.08	Tube rolling mills
tube.02.02.11	Sizing mills
tube.02.03.01	Tube forming equipment
tube.02.03.02	Tube welding equipment
tube.02.03.03	High-frequency welding equipment
tube.02.03.04	Induction welding equipment
tube.02.03.13	Coil and welding equipment
tube.02.03.14	Spiral pipe welding machines
tube.02.04.04	Annealing furnaces (batches and continuous furnaces)
tube.02.05.02	Straightening
tube.02.05.04	Expanding, deburring, peeling, folding
tube.02.05.13	Galvanizing, cladding (with zinc, tin, copper, bronze etc.)
tube.02.05.21	Horizontal strip accumulators
tube.03.05	Tube processing and finishing equipment



tube.06.02.08 Hydrostatic tube testing

tube.10.02.01 Profile Machinery

**Product Details**

Galaxie Corporation

tube.02.03.02 Tube welding equipment

**7.5" x .236" (190mm x 6mm) NZM Tube Mill Line NEW**



Tube Diameter: 60mm - 190mm

Wall Thickness: 6mm

Direction: Right to Left

Square Tube Diameter: 2" x 2" - 6" x 6" (50 x 50mm - 150 x 150mm)

Equipment Included

Coil Car

Uncoiler

Shear End Welder

6 Roll Flattener

Horizontal Coil Accumulator

Fixed Rim Accumulator

Forming Mill: 4 Driven Breakdown Stands, 3 Driven Fin Stands, 7 Idle Side Roll Units

Sizing Mill: 6 Driven Sizing Stands, 6 Idle Side Roll Stands

Flying Cut Off Saw (OPTIONAL: NOT INCLUDED IN QUOTATION)

High Frequency Welder (OPTIONAL: NOT INCLUDED IN QUOTATION)

TOOLING

**8.6" x .315" (219mm x 8mm) LWY Pipe Mill Line New 2007**



Pipe Diameter: 76mm - 219mm

Wall Thickness: 3mm - 8mm

Year: 2007



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**Tooling for Squares and Rectangles**

- Featuring:
- Mandrel Uncoiler
- 5 Roll Leveler
- Crop Shear & End Welder
- Horizontal Spiral Accumulator

**Rotary Shear**

- Forming Mill: 7 Forming Stands, 3 Finn Pass Stands, 4 Side Idler Rolls
- 500 kW Solid State Welder
- Cooling Trough
- Sizing Mill: 4 Sizing Stands
- Computerized Flying Saw
- Conveyor Stand
- Complete Electric Control
- Complete Mill with all Associated Equipment
- Can Be Inspected Installed In Plant

**Taper Pole Production Line NEW 2006 / 2012**

Produces Conical Poles, Polygonal Poles, Round Pipes, Taper Poles

Diameter: 190mm - 820mm (dependent on shape)

Conical Pole

Thickness: 2mm - 10mm

OD: 463mm - 190mm

Polygonal Pole

Thickness: 2mm - 20mm

OD: 820mm - 190mm

Round Pipe

Thickness: 8mm - 20mm and 8mm - 38mm

OD: 32" - 16"



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**Taper Pole Specifications**

OD: Top = 190 Degrees & Bottom = 463 Degrees

Length: 2,450mm - 16,000mm

Thickness: 10mm

**Gem Gravure Co. Inc.**

Address	112 School Street 02339 Hanover, MA USA
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E-Mail	info@gemgravure.com
Stand	Hall 16, A41

**Gem Gravure Co., Inc.**



For wire marking and coding equipment with inks.

GEM is the exclusive representative for KBA-Metronic in the United States, Canada and the borders of Mexico. We provide high quality industrial inks with reliable support and technical service. Gem ink jet inks range from heavy pigmented opaque to soft pigmented to dye based inks. This range allows customers to select bright opaque codes, codes resistant to automotive solvents or dye based codes that resist transfer. Gem's staff of expert chemists design fluids specifically for the needs of any manufacturing process. A full line of low VOC and VOC exempt inks are available.

KBA-Metronic is based in Germany. The KBA-Metronic alphaJET printer is one of the most reliable, eco-friendly ink jet printers available. A solvent recovery system is built into each alphaJET unit, reducing make up consumption to low



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eco-friendly, budget-friendly rates.

Representing GEM in Booth A41, Hall 16 at WIRE Dusseldorf:

Paul Gemelli – Executive Vice President Mark Kristoff – Director of Sales James Grey – Ink Sales Engineer

Stop by the booth to discuss new inks along with your existing fluids needs. We are happy to schedule a time to discuss your marking & coding needs. Just drop us an email to set an appointment or stop by any time during the show.

**Exhibitor profile**

Gem Gravure Co. Inc.

Number of employees	50-99
Business volume	–
Export quota	–
Founding year	1952
Business segment	Specialist areas



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**Company Contacts**

Gem Gravure Co. Inc.

Department/Name	Address
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**Product Overview**

Gem Gravure Co. Inc.

wire.07.02.04	Industrial identification, Labels
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## General Inspection, LLC

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Stand	Hall 15, H20



### About Us

Assuring Quality Through The Power Of Innovation

If you're going to meet today's toughest standards, and even tougher standards of the future, you're going to need a partner that provides innovative inspection technology.

Technology that gives you the confidence to assure customers their exact requirements will be met. Technology that lets you raise product quality and uniformity to new levels. Technology that gives you a competitive edge in value.

For the past 20 years General Inspection LLC has been helping manufacturers and distributors around the world reduce their parts per minute defect levels to almost zero. General Inspection has 40+ patent or patents pending, world-wide service and sales and the precision you need to gain the competitive advantage.



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### Exhibitor profile

General Inspection, LLC

Number of employees	20-49
Business volume	–
Export quota	–
Founding year	1991
Business segment	Measuring and control technology

### Company Contacts

General Inspection, LLC

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### Company News

General Inspection, LLC

#### 02/17/2016 Manufacturers Make Automated 3D Part Inspection a Competitive Advantage

For Immediate Release  
Manufacturers Make Automated  
3D Part Inspection a Competitive Advantage

Rapid three dimensional first part inspection is reducing scrap, increasing quality, cycle time, and improving overall equipment efficiency up to 20%



Whether manufacturers pursue lean production, Six Sigma, or their own quality assurance program, measuring is at the heart of quality and foundational in Six Sigma's goal to Define Measure Analyze Improve and Control (DMAIC) production processes. Yet excess waste remains



when the measurement is completed by slow human subjective means such as traditional hand gauges and optical comparators, which can lead to a myriad of errors in production processes.

With manual methods, first part inspection can take up to 45 minutes, incoming inspection audits can take hours, the Production Part Approval Process (PPAP) can take days, and accuracy can be less than desired.

“Even if micrometers and calipers are calibrated properly, measurement will vary from person to person depending on how they are held, squeezed, and interpreted,” says Rocky Pinheiro, PhD, Vice President of Quality, North American Operations at Acument Global Technologies, a manufacturer of value-added screws, bolts, nuts and cold formed components for the automotive, industrial, aerospace, and defense markets.

Inspection equipment that provides a two dimensional (2D) or cross sectional view of parts can also be insufficient for today’s demanding quality control requirements. “Parts do not exist in a 2D, but a 3D world,” says Pinheiro. “Every part manufactured must properly mate and function with other components in three dimensions.”

For these reasons, proactive manufacturers are turning to precise, objective, 3D inline inspection that can measure and record dozens of part features in a fraction of the time it would take to do manual inspection. This is enabling manufacturers to turn automated 3D part inspection into a competitive advantage that is capable of significantly increasing quality and cycle time, reducing scrap, and improving overall equipment efficiency up to 20%.

#### Automated 3D Part Measurement

“With LaserLab we are completing up to twenty measurements per part in three dimensions within 30 seconds for first part, hourly, and final inspection,” says Pinheiro. “It gives us feedback on 90% of the elements we want to measure. From length, diameter, radius, and head height to corners, shoulders, and other dimensions it is very accurate.”

LaserLab, a 3-dimensional laser gauging system that can measure over twenty critical part features within 20 seconds down to 2 microns in diameter, is offered in laboratory and shop floor versions by General Inspection ([www.generalinspection.com](http://www.generalinspection.com)), a developer of high-speed measuring and fastener inspection sorting systems.

“We are seeing a 10-20% improvement in overall equipment efficiency (OEE) for set up and changeover, and are making parts much faster with LaserLab,” adds Pinheiro. “We are also significantly reducing first time scrap and downstream sorting while increasing production cycle time.”

Because the patented laser technology accurately measures with exact repeata-



bility every time, it greatly reduces part-to-part variability by eliminating operator error. A comprehensive, built-in thread database provides instant tolerances for each thread characteristic, and after every pass the laser beams are automatically calibrated to NIST standards to ensure accuracy.

As such, LaserLab provides real-time manufacturing process control with more precise, repeatable measurements than possible manually. This allows more frequent part measurement that significantly improves product quality and reduces scrap.

According to Pinheiro, Acument Global Technologies previously used operator manual inspection to determine first part quality, which required about 10 minutes to check part dimensions.

“Using the 3D laser gauging system has cut our inspection time to less than 30 seconds per part, a twenty-fold time savings,” says Pinheiro. “We ensure our process is performing within specifications so we’re continuously manufacturing good parts.”

True to the tenets of lean production and Six Sigma, the 3D laser gauging system has streamlined accurate data collection and Statistical Process Control (SPC), putting Acument Global Technologies on a virtuous cycle of better production measurement, analysis, improvement, and control.

“Instead of operators hand measuring part dimensions and writing the data on paper to enter in Excel, LaserLab’s output goes directly into Excel electronically,” says Pinheiro. “This eliminates operator bias, error, as well as the production bottleneck of operators stopping to measure product, which allows us to manufacture with more continuous flow.”

As Acument Global Technologies begins using LaserLab for incoming part identification and validation at distribution centers, Pinheiro expects to see further benefits. The process will verify that the correct parts are actually in the containers. It will also verify key part characteristics such as length, diameter, flats, corners and head height.

“We have found that the 3D laser gauging system (LaserLab) reduces incoming part identification and validation cycle time from 3-4 minutes to about 20 seconds,” says Pinheiro. “The efficiency allows staff deployment to other areas while ensuring part quality and accuracy for our end customers.”

While the company’s PPAP process typically took about 90 minutes to measure several parts with manual gauges such as micrometers or calipers, LaserLab has saved about one hour per PPAP. “The efficiency has freed up about a day per month for my PPAP coordinator to further enhance quality control,” says Pinheiro.

According to Pinheiro, Acument Global Technologies is also realizing very strong



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Earnings Before Interest and Taxes Accrued (EBITA) performance compared to last year. "This tells me that even if we are not directly measuring some of the benefits of the 3D laser gauging system they are flowing to the bottom line," he says.

"Any company that manufactures parts where dimensional accuracy is crucial should look into a 3D laser gauging system," says Pinheiro. "We achieved ROI in one year on our units and are still realizing greater efficiencies."

For more info, call 248-625-0529; Fax 248-625-0789; visit [www.generalinspection.com](http://www.generalinspection.com); or write to [info@generalinspection.com](mailto:info@generalinspection.com) General Inspection, 10585 Enterprise Dr., Davisburg, MI 48350.

###

By Del Williams

Del Williams is a technical writer based in Torrance, California.

#### Product Overview

General Inspection, LLC

wire.05.12 Laser measuring equipment

#### Product Details

General Inspection, LLC

wire.05.12 Laser measuring equipment

#### Gi-360T

The GI-360 T is a 3-D 100% inspection machine. Precision split/narrow laser beams, multi laser velocity gauge and system 22 modeling of threads are used to accurately measure parts to print specs and tolerances. It uses 3-D information from multiple laser beams to detect defects that may only be on one side of the part such as damaged threads.



#### LaserLab

The LaserLab is the world's first 3-D laser gauging, inspection system. It's fast, accurate and shop floor rugged. It allows SPC sampling, supplier audits and first part inspection up to one thousand times faster than traditional, manual gauging techniques.



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### George A. Mitchell Company

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Stand	Hall 06, C21-03

#### George A. Mitchell Co.



The George A. Mitchell Company is the industry leader in Push Pointing technology with more than four decades of Push Pointer design and manufacturing experience. We are an original equipment manufacturer and custom designer of hydraulic push pointers for tubular and bar products as well as hydraulic cold forming machines of near net shapes for automotive and specialty products. As a compliment to the push pointers, we offer custom material handling equipment for larger outside diameter tubes. We have designed and built over 400 Push Pointers, 100 cold forming machines, and numerous associated layouts of material handling equipment.

#### Product Overview

George A. Mitchell Company

tube.02.03.01 Tube forming equipment



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## Hangsterfer's Laboratories, Inc.



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Stand	Hall 06, C29-08



### Hangsterfer's Labs., Inc.

Hangsterfer's Laboratories produces coolants and other lubricants used in all sectors of the metalworking industry. We are a family owned and operated company born in 1937. Contact us today. Together we will overcome costly machining problems, reduce down-time and maintenance costs and dramatically improve your company's bottom line.

Hangsterfer's engineering staff and knowledgeable representatives are ready to answer your questions and solve your problems!

### Product Overview

Hangsterfer's Laboratories, Inc.

tube.04.08.01	Lubricants
tube.04.08.02	Drawing and rolling aids
tube.04.11	Minimum lubrication for tube extrusion



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### Product Details

Hangsterfer's Laboratories, Inc.

tube.04.08.01	Lubricants
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#### Dielectric Fluid

Our dielectric fluids have allowed our users with EDM machines to increase amperage, thus reducing process times by as much as 30%. Also, they create a non-conductive channel allowing the spark to hit its target accurately and at a full charge. It has the added benefit of reduced carbonization, which reduces gummy residue.



Crystal Brite® EDM has been proven successful in both high and low amperage spark erosion processes. Its unique blend of low viscosity ultra-pure hydrocarbons with the latest synthetic technology provides a crystal clear fluid with high oxidation stability and extremely low viscosity. The result is stability under high amperage as well as fast flushing in tight tolerance finishing work.

Crystal Brite EDM is safe, operator friendly and odorless. It contains no solvent-based hydrocarbons. This helps eliminate skin irritation associated with solvents and reduces oil mist and solvent vapor exposure.

The combination of low viscosity and low specific gravity produces faster more efficient flushing and filtration resulting in increased metal removal rates by as much as 30%. Filtration is improved due to less carbon and residue formation. The filter lasts longer and particulates are prevented from returning to the electrode work piece interface.

#### Emulsifiable Oils

S-500CF® The first choice for general machining of all metals. Due to its extreme pressure (EP) properties, outstanding results have been generated on all metals, including nickel alloys, stainless steels and aluminum alloys. Our CF version is chlorine free with specially formulated anti-weld and anti-wear compounds for use on ferrous and non-ferrous metals especially aluminum alloys.

Missile Lube® 5 EH Chlorine-free, vegetable oil based coolant. Provides excellent lubricity, surface finishes and tool life. Especially good for aluminum, steel, Stainless Steel and other difficult to machine materials.



### TSP Equipment: Filters

Why use a filtration system? Improve tool life, surface finish, reduce machine down time for sump maintenance and extend fluid life. Why use our system? Patented non-channeling filter elements for longer life, fluid is filtered before entering pump and portable frame design.

Model 105100 Javelin Coolant Filtering System with Mount



One bag filter which absorbs tramp oils and fine material chips

Easily attached to the coolant pump or can be attached to a separate pump (optional)

Can be mounted permanently or with a magnetic base (all included)

Mounted inside or outside the machine enclosure

Simple filter media change (10 per unit included)

Will operate with as little as 2.0 gpm (7.6 lpm)

Filter replacements available (Model 105100-2)

Magnetic wall mount available (Model 105100-1)

Model 105004 Portable Coolant Filtering System

One bag filter, 25 micron standard

One channeling filter element, intended for water-based fluids, effective 20 micron filtration

Mounted pump system on cart

Air diaphragm pump, rated at 4.5 gpm (100 lpm)

Model 105002 Portable Oil Filtering System

One bag filter canister, 15 micron and 5 micron standard

Two non-channeling filter elements, removes moisture and filters down to 3 microns.

Mounted pump system on cart

Air diaphragm pump, rated at 4.5 gpm (100 lpm)



### Hariton Machinery Co. Inc.

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E-Mail	mec@haritonmachinery.com
Stand	Hall 15, D56

### Fastener Machinery

We buy and sell machinery that manufactures nuts and bolts.

Exhibitor profile	Hariton Machinery Co. Inc.
Number of employees	1-19
Business volume	1-9 Mio US \$
Export quota	max. 25%
Founding year	1970
Business segment	Tube manufacturing machinery



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Internationale Fachmessen  
www.wire.de / www.Tube.de

### Company Contacts

Hariton Machinery Co. Inc.

Department/Name	Address
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Michael E. Carelli	HARITON Machinery Co. Inc. USA-06607 Bridgeport, CT Phone: +1-203-3676777 mec@haritonmachinery.com
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### Product Overview

Hariton Machinery Co. Inc.

wire.01.07.02	Hot upsetting
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wire.01.07.03	Cold upsetting, forging
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wire.01.07.09	Cutting (threads etc.)
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wire.01.07.10	Rolling (threads)
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### Product Details

Hariton Machinery Co. Inc.

wire.01.07.10	Rolling (threads)
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#### Fully Automatic Wire Straightening and Cutoff Machines A Typ



#### Fully Automatic Wire Straightening and Cutoff Machines B Typ



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www.wire.de / www.Tube.de

### Hydraulic Wire Rod Straightener



### Haynes International, Inc.

Address	1020 West Park Avenue, P.O. Box 9013 46904 Kokomo, IN USA
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Phone	+1 765 4566-000
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Fax	+1 765 4566-155
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Internet address	www.haynesintl.com
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E-Mail	
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Stand	Hall 04, E09
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#### Corrosion-Resistant & High-Temperature Alloys

Haynes International, Inc., headquartered in Kokomo, Indiana, USA, is a leading developer, manufacturer and marketer of high-performance nickel- and cobalt-based alloys used in corrosion and high-temperature applications. Our highly-trained staff and technicians provide superior customer service, worldwide technical support and one-on-one consultation in selecting the proper alloy for the application. In addition to stocking our standard product forms, our global service centers offer value-added services to shorten your cycle time, reduce material waste and increase your operation's efficiency. Haynes International is a partner in your entire material management system and provides value far beyond the alloys themselves.



## Product Overview

Haynes International, Inc.

tube.01.03.04 Nickel

## Product Details

Haynes International, Inc.

tube.01.03.04 Nickel

### Corrosion-Resistant Alloys

The Corrosion-Resistant HASTELLOY® alloys are widely used by the chemical processing industries. The need for reliable performance leads to their acceptance and growth in the areas of energy, health and environmental, oil and gas, pharmaceutical and flue gas desulfurization industries. The attributes of HASTELLOY® alloys include high resistance to uniform attack, outstanding localized corrosion resistance, excellent stress corrosion cracking resistance, and ease of welding and fabrication.

B-3® alloy possesses outstanding resistance to non-oxidizing acids, such as hydrochloric acid and sulfuric acid. The advantages of B-3® alloy over previous B-family alloys are enhanced thermal stability and improved fabrication characteristics. A new alloy, HASTELLOY® HYBRID-BC1® alloy will handle stronger non-oxidizing acids than C-type alloys and will tolerate oxidizing impurities that B-type alloys will not.

The most versatile of the HASTELLOY® alloys are the "C-type" alloys. C-2000® alloy combines outstanding resistance to oxidizing media with superior resistance to non-oxidizing environments and represents a true performance breakthrough for chemical process equipment applications. C-22® alloy is particularly resistant to pitting and crevice corrosion; it has been used extensively to protect against the most corrosive FGD systems and the most sophisticated pharmaceutical reaction vessels.

G-30® alloy has been very successful as phosphoric acid heat exchanger tubing and for other process components in the fertilizer industry. G-35® alloy was designed as an improved version of G-30 alloy in these applications. The high chromium content of both of these alloys make them the premier choices for strong oxidizing solutions and mixed acid pickling services

### High-Temperature Alloys

The aircraft gas turbine engine market has traditionally been the major user of HASTELLOY® and HAYNES® high-temperature alloys. Here the story has been one of incremental growth as each major advance in engine performance

capitalizes on the development of newer and more efficient materials of construction.

MULTIMET® alloy was the first significant wrought HAYNES® high-temperature alloy offered to the aviation industry in the 1950's. HASTELLOY® X alloy, the next major development is still a "workhorse" of the industry. HAYNES® 188 alloy later offered engine designers a much higher temperature advantage. HAYNES® 230® alloy has gained increased use because of its unexcelled combination of high-temperature strength and oxidation resistance plus improved thermal stability. HAYNES® 242® alloy shows great promise for aircraft engine seal rings, containment rings, duct segments, casings and fasteners. The newest HAYNES® 282® alloy combines exceptional high temperature properties with good weldability and fabricability.

Outside of the aircraft industry, high performance, heat-resistant alloys offer properties never before available. Because of its superior oxidation resistance through 2200°F (1204°C), HAYNES® 214® alloy is gaining more and more applications in the ceramics, metalworking, automotive and electronics industries for "clean firing."

HAYNES® 556® and HR-160® alloys have very good resistance in waste disposal and fossil energy production because of their superior resistance to oxidation, sulfidation and molten salt attack.

HAYNES® HR-120®, 230® and 556® alloys are providing cost-effective solutions to many maintenance problems in the heat-treating and industrial heating industries because of their superior properties.



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Internationale Fachmessen  
www.wire.de / www.Tube.de

## Huestis Industrial

Address	68 Buttonwood Avenue 02809 Bristol, RI USA
Phone	+1 401 2535500
Fax	+1 401 2537350
Internet address	www.huestis.com
E-Mail	sales@huestis.com
Stand	Hall 09, E06-5



### About us

Huestis Industrial is a dynamic global leader in specialized wire, cable and fiber optic machine production. ISO 9001 registered manufacturing supports a wide array of products that have earned a reputation for dependability and rugged design.

We work hard to satisfy you and as always, appreciate your business.

### Product Overview

Huestis Industrial

wire.01.06.01	Coiling, winding
wire.01.06.03	Spooling
wire.01.09.08	Insulation strippers for cables
wire.01.11.06	Cold pressure welding
wire.01.12.07	Airwipes



wire Düsseldorf - Tube Düsseldorf  
Internationale Fachmessen  
www.wire.de / www.Tube.de

### Product Details

Huestis Industrial

wire.01.06.03	Spooling
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### Spoolers and Coilers

Spoolers and Coilers are designed to produce neat, uniformly wound packages free of defects. Saving valuable downtime, they are ideal as an off-line quality inspection system that will not interrupt the manufacturing process. They may also be used as a remedial measure to compensate for poorly wound spools resulting from inadequate take-ups on older processing lines. Dual spindle, single spindle and many custom designs are available. Huestis Industrial Spoolers and Coilers are matched to custom specifications.



wire.01.09.08	Insulation strippers for cables
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### Cable Jacket Strippers

Cable Jacket Strippers remove jackets quickly and easily without damaging the valuable core. A protective stripping tool and rotating blade work together to lift, cut and separate the jacket from bare or braided cable cores. Freestanding, bench mounted or custom models quickly remove jackets from various cables with cores from .030" - 4.00" (.76-102 mm) dia. The jacket stripper can also work alongside an optional jacket puller or puller/chopper for highly productive, semi-automatic operation.



wire.01.11.06	Cold pressure welding
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### Products - Cold Pressure Welders

Huestis Industrial now offers a complete line of cold pressure welders and dyes for all customer application requirements ranging from the smallest to the largest. The new line of cold pressure welding machines and dyes is backed by Huestis Industrial's quality and dependability, and the company's warranty.





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 Internationale Fachmessen  
 www.wire.de / www.Tube.de

**IFMSA - International Fastener Machinery + Suppliers Ass., Inc.**

Address	107 Mill Plain Road Danbury Corporate 06811 Danbury, CT USA
Phone	+1 203 7940444
Fax	+1 203 7434810
Internet address	www.ifmsainfo.com
E-Mail	dzirkle@bzsales.com
Stand	Hall 15, A56

**About us**

**OFFICERS & BOARD MEMBERS**

The officers of the Board of Directors are elected by the Members to hold office and represent the industry's best interest in technical developments and market opportunities for this industry sector in the global market area.

**OBJECTIVES**

To foster the mutual interest of members worldwide which supply machinery, equipment, tooling materials, testing and technical services for the fastener and precision formed part industries.

To work in cooperation with existing groups to collect, exchange, and disseminate technical and commercial information relating to the production, distribution, consumption, and use of fasteners and components made from ferrous and non-ferrous material.

To promote and develop meetings, events, expositions, and educational programs worldwide aimed at enabling the industries to conduct themselves with the greatest economy and efficiency and to improve the welfare of those engaged in the industries.

To facilitate the understanding worldwide of standards, specifications, trade terminology and generally promote the serviceability of the fastener and precision formed parts industries.



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 www.wire.de / www.Tube.de

**ASSOCIATION ACTIVITIES**

The Association will provide management and guidance for participation in expositions and international trade fairs and will organize seminars and technical meetings based on market needs determined by its members. Through its own regular media outlets, Association members will also be provided with resources to further their objectives.

**Company Contacts**

IFMSA - International Fastener Machinery +...

**Department/Name Address**

Douglas P. Zirkle	IFMSA - International Fastener Machinery + Suppliers Ass., Inc. USA-06811 Danbury, CT Phone: +1 203 7940444 Fax: +1 203 7434810 dzirkle@bzsales.com
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**Product Overview**

IFMSA - International Fastener Machinery +...

wire.07.10	Associations
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**Product Details**

IFMSA - International Fastener Machinery +...

wire.07.10	Associations
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**IFMSA**



**INTERNATIONAL FASTENER MACHINERY & SUPPLIERS ASSOCIATION, INC.**

A non-profit trade association comprised of machinery builders, tooling manufacturers and suppliers of the fastener and precision formed parts industries

Is a self-governing, independent corporate membership association serving its members worldwide

Is registered and incorporated in the State of Connecticut, with administrative offices situated in Danbury, Connecticut, USA

**OFFICERS & BOARD MEMBERS**

The officers of the Board of Directors are elected by the Members to hold office



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and represent the industry's best interest in technical developments and market opportunities for this industry sector in the global market area.

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www.wire.de / www.Tube.de

### Indiana Tube Corporation

Address	2100, Lexington Ave 47720 Evansville, IN USA
Phone	+1 812 4249028
Fax	+1 812 4248195
Internet address	www.indianatube.com
E-Mail	indianatube@indianatube.com
Stand	Hall 06, C29-06



#### About Indiana Tube Corporation

Indiana Tube Corporation (ITC), a Handy & Harman Ltd. Company, is a manufacturer of low carbon mechanical grade welded steel tubing used for diverse industries worldwide. ITC products are used in a variety of fluid & gas carrying applications for Automotive, Large Truck, Heavy Equipment, Oil & Gas, Agriculture, Heating & Air and Refrigeration. Additionally, ITC manufactures non-fluid carrying tube for applications such as, heating elements, welding rods, tubular handles, seating components, sun visor rods, and filtration products. ITC manufactures a wide range of tube diameter and wall thickness in both Standard and Metric sizes (See Products > Capabilities).

A commitment to quality and service has been synonymous with the Indiana Tube name. We make it evident in our commitment to the products and services we supply. Our experienced team provides expertise on current and new product development utilizing the "H&H Business System" focusing on continuous improvements utilizing: H&H Lean Tools, Kaizen, Six Sigma and ISO 9001 standards. Our "Vision" to excellence does not stop at the shipping dock; we strive to become business partners with our customers and suppliers to support total elimination of waste throughout the supply chain.

We work successfully with our customers worldwide, to take products from a



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raw idea to full implementation. We provide extensive customer-specific solutions for critical applications. You can rely on our team of engineers to refine your ideas, explore options, create new solutions, analyze values and deliver on commitments. ITC does not only supply tubing options we strive to be your business partner.

**Product Overview**

Indiana Tube Corporation

tube.01.06.08 Coated tubes

**Product Details**

Indiana Tube Corporation

tube.01.06.08 Coated tubes

**Coiled Tube**

Quote Indiana Tube against your coiled tubing supplier. We'll win you over on quality, lead time and value.



Our Tubing is of the highest quality and is delivered to our customers, on time, at a competitive price. Utilizing high speed induction welding techniques and roll reduction combined with in-line annealing we produce a range of sizes. Indiana Tube's Engineers have designed computerized, state-of-the-art, high speed mills capable of producing tube around the clock at line speeds up to 1,000 feet per minute. All operations at our plant are computer-controlled, from the monitoring of the mill itself to the accounting and inventory departments. Accurate, precise information is available at any point in the manufacturing process, and the cost savings generated by this efficiency is passed to our customers.

**CT Spooled Tube**

Why endure the costly delays of CT mills that string you along for months? Indiana Tube has the standard sizes of small diameter, A606 carbon steel tubing you need — for well intervention, completion and velocity strings — in-stock and ready to ship.



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**Cut to Length Tube**

Quote Indiana Tube against your tubing supplier. We'll win you over on quality, lead time and value.



Beyond producing high-quality tubing, Indiana Tube has the capability to cut to length. Our Tubing is of the highest quality and is delivered to our customers, on time, at a competitive price. The quality checks we have built into our manufacturing process give way to dimensionally consistent tubing, suitable for assembly methods including flared and compression fittings. We are continually enhancing our steel tube cutting capabilities to meet customer requirements.

**InfoSight Corporation**



Address 20700 U.S. Highway 23, P.O. Box 5000  
45601 Chillicothe, OH  
USA

Phone +1 740 642-3600

Fax +1 740 642-5001

Internet address www.infosight.com

E-Mail sales@infosight.com

Stand Hall 17, E58



**About us**

InfoSight Corporation has been solving the identification and traceability needs of metals manufacturers since 1993. Whether you require preprinted metal tags to track a single job from start to finish, a tag and laser printer system to print our durable metal tags on-site or you find it necessary for us to design a custom piece of equipment for labeling your product in



your mill – InfoSight has a solution to every marking and labeling need to fit every budget. At InfoSight we believe that a great identification system can reduce costs, eliminate errors, increase safety and – just possibly - give your company the edge over the competition.

Dr. John A. Robertson, founder and President of InfoSight, started his original company – Telesis - as an "invention on demand" shop in 1971 without a specific focus, but based upon patents in materials marking technology. A niche was discovered in industrial customized marking of steel. In 1993 InfoSight was formed from the divestiture of the large, custom designed side of the business from Telesis Marking Systems.

Situated on 25 acres in Southern Ohio (USA), InfoSight Corporation employs 70 people; engineers, chemists, IT specialists, sales and service specialists all focused on one guiding mission - solving your identification and traceability requirements.

Customers from many industries seek out InfoSight's expertise. Custom manufacturers who want identification and serial number tags for one or more product. Manufacturers who require specific labeling of their products to meet compliance for sale to governments or military units. Utility companies needing permanent tags to label valves and switches. Galvanizers and fabricators who must have tags that will allow them to track their products through heat, acids, weather and abrasion. And primary metal manufacturers and pipe and tube forming mills who demand custom weighing, stenciling and/or measuring machinery - all come to InfoSight to meet their traceability and identification concerns.



**Exhibitor profile**

InfoSight Corporation

Number of employees	50-99
Business volume	–
Export quota	max. 50%
Founding year	1993
Business segment	Measuring and control technology, Specialist areas, Profiles and machinery



**Company Contacts**

InfoSight Corporation

Department/Name	Address
David Hudelson	InfoSight Corporation USA-Chillicothe Phone: +1-740-6423600 Fax: +1-740-6425001 hudelson@infosight.com
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Edward O'Neal	InfoSight Corporation USA-Chillicothe Phone: +1-740-6423600 Fax: +1-740-6425001 eoneal@infosight.com

**Product Overview**

InfoSight Corporation

tube.02.02.05	Stretch rolling mills
tube.02.02.09	Rotary piercing mills
tube.02.05.19	Marking
tube.03.07	Measuring and control technology



tube.04.01	Continuous casting
tube.07.02.01.01	Machinery and constructions
tube.07.02.01.03	Counting, weighing and sorting
tube.09.02.01	Equipment condition monitoring, pigging etc.
wire.01.01.02	Continuous casting
wire.01.02.08	Forging
wire.01.04.02	Annealing without inert gas (furnaces)
wire.01.05.01	Pickling, blasting, scale removal by bending, cleaning, scale removal
wire.03.02.01	Pickling chemicals, acids
wire.03.07	Auxiliary galvanizing materials
wire.07.02.01	Packaging
wire.07.02.04	Industrial identification, Labels
wire.07.06	Data technology/Production control
wire.07.07.01	Galvanizing

**Product Details**

InfoSight Corporation

tube.02.05.19	Marking
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### Billet Stamper Prints On-Demand Text Using the InfoDent® Imp

This custom stamping machine uses the InfoSight InfoDent® marker to create text on ambient to 1800° F billets for permanent identification. Can mark low stress dot matrix characters to solid line (fully formed) characters.



### Dual Coil Marker Prints Text on Steel Coils

This custom dual coil marker uses two of the InfoSight X-Y Continuous Character Ink Markers to mark a hot coil at the 10 O'clock and 2 O'clock positions. The water based ink can mark coils from 400° F to 1600° F. The continuous characters are highly readable for crane and fork truck operators.



### Labelase ® 28xx INFOTAG ® LASER MARKER

#### Features

- LL28xx-series plugs directly into your PC.
- All-metal construction. Ideal for dusty, dirty mill environments.
- Non-contact printing.
- No ribbons.
- No ink cartridges.
- No expensive laser lenses.
- FREE WINDOWS-BASED SOFTWARE



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### ITEX PIPING PRODUCTS

Address	13411 West Road 77041 Houston USA
Phone	+1 832 6047900
Fax	
Internet address	www.itexpp.com
E-Mail	sales@itexpp.com
Stand	Hall 01, B19



#### About Us

ITEX Piping Products, LLC is the USA operation of our family of businesses, Metalfar, Industria Meccanica Ligure, (IML), OMC, Orion Valves all from Italy and Friedrich Geldbach, from Germany. Our family has manufactured high quality, major oil company approved piping components for over 60 years. ITEX is the realization of the dream of my father Luigi "Gino" Farina, and his brothers, Bruno and Giancarlo, to one day take our manufacturing operations and processes to the USA. ITEX is manufacturing nipples, swages, stainless steel flanges, and many complementary piping components. We appreciate all the support of our long time customers and look forward to forging many new relationship's.

#### Company Contacts

ITEX PIPING PRODUCTS

Department/Name	Address
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**Product Overview**

ITEX PIPING PRODUCTS

tube.01.09.03 Connecting pieces (straight and elbows)

**Product Details**

ITEX PIPING PRODUCTS

tube.01.09.03 Connecting pieces (straight and elbows)

**Nipples/Swages**



**Pressure Fittings**



**Welding Neck Flanges**



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www.wire.de / www.Tube.de

**KEIR Manufacturing, Inc.**



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Stand	Hall 09, C69

**About Us**



KEIR Manufacturing, Inc. is a North Carolina, USA based company that manufactures and markets a large variety of technical ceramic and engineered products serving a diverse group of industries. For the Wire and Cable industry worldwide, KEIR's products include a wide range of high purity Ceramic Guides and the Frontiersman line of Air Wipes along with state of the art Composite Flyer Bows. KEIR also produces engineered ceramic products for the textile, brick and sandblasting industries as well as high-temperature furnace components and a large number of other specialty applications. We established an abrasives division in 2001 to manufacture superior quality sharpening, dressing, and polishing stones.

Since its inception in 1983, KEIR has developed proprietary forming and machining methods that allow us to produce an incredible assortment of parts efficiently and quickly, usually without expensive tooling. We have an entrepreneurial culture that seeks to challenge assumptions.

KEIR Manufacturing does business with more than 1500 companies in 43 countries. Doing business with us is easy and satisfying. Our customers come back.



### Our Mission

KEIR's mission is to engineer value for our customer. We enhance our customers' competitiveness by delivering leading edge products that improve performance, efficiency and environmental impact. We differentiate ourselves by offering not just products, but a partnership with each customer to create solutions of real value to meet their specific needs. Our creative team quickly responds to any opportunity with immediate turn around and personal service.

### Our Performance

We know what we are capable of and we do it every day.

Reliable on-time production you can count on.

Our quoted lead-times are commonly half as long as industry standard.

Tolerances on technical ceramics are held 50% tighter than industry standards.

Our prices are competitive worldwide.

KEIR has gone over nine years without a lost-time accident.

### What to Expect from KEIR

We like what we do and our pride is evident in how we do it.

When you contact KEIR you can expect friendly, knowledgeable, personal service.

You can expect a quick response to your quotation request, usually within a few hours.

All orders are acknowledged with the scheduled ship date.



Production of your order will begin within twenty-four hours of our receipt of your order.

All materials, batches, labor and methods will be tracked as your order is produced inspected and shipped.

We will carry inventory on parts you purchase routinely.

### Exhibitor profile KEIR Manufacturing, Inc.

Number of employees	–
Business volume	–
Export quota	–
Founding year	1983
Business segment	Tube manufacturing machinery, Rebuilt and Reconditioned Machinery

### Company Contacts KEIR Manufacturing, Inc.

Department/Name	Address
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Doyle Luttrell	Sales@KEIRmfg.com
Cole Chapman	Sales@KEIRmfg.com

**Company News**

KEIR Manufacturing, Inc.

**02/11/2014 KEIR Engineering Value for Our Customers**

Technical Brief published in Wire and Cable Technology magazine



**Product Overview**

KEIR Manufacturing, Inc.

wire.01.09.04	Twisting, bunching
wire.01.12.07	Airwipes
wire.01.14	Spare parts for wire and cable machines
wire.02.05.04	Ceramics, ceramic-coated
wire.02.06.03	Ceramics, ceramic-coated

**Product Details**

KEIR Manufacturing, Inc.

wire.01.09.04	Twisting, bunching
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**Composite Flyer Bows**

KEIR's triaxially braided composite standard and BackBone flyer bow constructions have greater durability than layered/laminated designs, allowing them to take more hits and endure higher stress equating to increased operating life and less machine downtime. We offer the largest variety of guide/roller assembly systems for any application. The more aerodynamic BackBone design functions at lower power consumption (up to 40% less energy) and higher TPM, resulting in improved wire quality and further reduction in

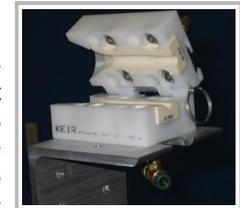


bow breakage. KEIR Manufacturing offers this value proposition: Leading edge flyer bow designs providing longer operating life, less machine downtime, and lower energy consumption.

wire.01.12.07	Airwipes
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**Frontiersman Air Wipes**

KEIR's patented SureShot and SplitShot Air Wipes provide a far more effective drying method, and one that does not depend on high-volume air consumption. This efficient design yields exceptional drying performance using a very low volume of compressed air, and lasts much longer than other brands due to the rugged ceramic insert lining the wire path. KEIR Manufacturing offers the following value proposition: Air Wipes that exceed performance expectations using at least 25% less compressed air while having an operating life of years as compared with months.



wire.01.14	Spare parts for wire and cable machines
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**Visit Our Three Product Categories**

wire.02.05.04	Ceramics, ceramic-coated
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**KEIR Ceramic Guide Parts**

KEIR Manufacturing is able to duplicate most standard and specialty parts. KEIR can make prototypes from 99.8% pure Alumina ceramic to replace parts made of metal, plastics or other materials. The company's proprietary production process provides the versatility to make this wide range of parts without tooling charges. KEIR offers this value proposition: High-quality, long-wearing ceramic options, delivered quickly at low cost.



wire.02.06.03	Ceramics, ceramic-coated
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### KEIR Ceramic Guide Parts

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### Kent Corporation

Address	9601 York Alpha Drive 44133 North Royalton, OH USA
Phone	+1 440 5823-400
Fax	+1 440 5829654
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E-Mail	sales@kenttesgo.com
Stand	Hall 06, C18



### About Us

Kent Corporation has been an industry-leading supplier to the tube mill, roll forming, stamping and strip processing industries for over four decades. Shipping more than 5,000 pieces of equipment to customers in fifty-three countries world-wide.



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Internationale Fachmessen  
www.wire.de / www.Tube.de

### Exhibitor profile

Kent Corporation

Number of employees	50-99
Business volume	–
Export quota	–
Founding year	1971
Business segment	Tube manufacturing machinery, Rebuilt and Reconditioned Machinery, Pipeline and OCTG Technology, Profiles and machinery

### Company Contacts

Kent Corporation

Department/Name	Address
Dean Costello	Kent Corporation USA-44133 North Royalton, OH Phone: +1-440-582-3400 deanc@kenttesgo.com

### Product Overview

Kent Corporation

tube.02.03.13	Coil and welding equipment
tube.02.05.04	Expanding, deburring, peeling, folding
tube.02.05.21	Horizontal strip accumulators
tube.02.05.24	Flying Shears, High-Speed



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tube.03.05	Tube processing and finishing equipment
tube.04.07	Cutting, deburring
tube.09.01.01	Machinery and equipment

### Leggett & Platt Wire Group

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Stand	Hall 09, E16-1



#### About us

Leggett & Platt is a diversified manufacturer that conceives, designs and produces a broad variety of engineered components and products for customers worldwide. While Leggett & Platt may not be a familiar name to you, chances are you sleep on a bed made with Leggett components - box spring, innerspring, fiber comfort layers; relax in a recliner that has an L&P motion mechanism powering it; shop in stores that have products displayed on shelving made by L&P - in short, Leggett products are all around you, making the products you use every day more comfortable, durable and life-enhancing.

#### Product Overview

Leggett & Platt Wire Group

wire.01.08.02	Coil springs
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wire Düsseldorf - Tube Düsseldorf  
Internationale Fachmessen  
www.wire.de / www.Tube.de

### Loomis International Ltd.

Address	1190 Anvil Drive 61115 Machesney Park, IL USA
Phone	+1 815 6367200
Fax	+1 815 6367209
Internet address	www.loomisltd.com
E-Mail	simon@loomisltd.com
Stand	Hall 15, A19



#### About us

Since 1979, LOOMIS INTERNATIONAL has compiled a one-stop shop for new/used machinery, tooling & other services focusing on the cold/warm heading industry.

#### Exhibitor profile

Loomis International Ltd.

Number of employees	50-99
Business volume	10-49 Mio US \$
Export quota	max. 25%
Founding year	1979
Business segment	Raw materials, tubes and accessories, Tube manufacturing machinery



wire Düsseldorf - Tube Düsseldorf  
Internationale Fachmessen  
www.wire.de / www.Tube.de

### Company Contacts

Loomis International Ltd.

Department/Name	Address
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Simon Spreckley	Phone: 001 815 636 7200 simon@loomisltd.com
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### Product Overview

Loomis International Ltd.

wire.02.01	for casting
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### Product Details

Loomis International Ltd.

wire.02.01	for casting
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#### Carbide/HSS Segmented Hex Tooling



Hex on Hex & Round on Hex Configurations Available

The Hex on Hex design uses trapezoid shaped sections, which helps disperse the impact shocks more effectively aiding increased tool life.

Specials in 1 – 2 Weeks

Blanket / Stocking order process available

Also available in High Speed Steel

We offer the segmented inserts only, or for superior results, the complete assembly

Follow this link to download Carbide / HSS Segmented Hex Tooling

#### NAKASHIMADA NP81

NAKASHIMADA NP81 2-DIE/3-BLOW COLD HEADER

REF. #4402

10MM X 80MM

160 PPM

TIMED PKO 1-2-3, BUSH C/O, VARIABLE SPEED,



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Internationale Fachmessen  
www.wire.de / www.Tube.de

### STRIPPER DEVICE FOR BOTH DIES, FINGERLESS TRANSFER

#### 1/4" NATIONAL PINCH POINTER



### Magnetic Analysis



Address	103 Fairview Park Drive 10523 Elmsford, NY USA
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Phone	+1 914 5302000
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Fax	+1 914 7033790
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Internet address	www.mac-ndt.com
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E-Mail	info@mac-ndt.com
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Stand	Hall 11, J14
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#### NDT Testers & Systems Since 1928

Magnetic Analysis Corporation has been a leader in nondestructive instruments and systems for over 85 years. Based on ultrasonic, eddy current and flux leakage test technologies, these systems are designed to detect flaws and metallurgical characteristics in wire, rod, bar, and tube, particularly during the production process. Applications include inspecting wire in operations such as drawing, spring-making, parts forming, or in straight and cut. MAC also has a broad range of systems for testing ERW tube, stainless steel tube, OCTG and duplex tube. Systems can incorporate handling and positioning the test material as well as complete control



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software that integrates test results with the mill's quality control.

MAC NDT systems are currently operating in mills throughout the world, including Europe, Eastern Europe, China, India, South and North America, and Australia. MAC's experienced Field Engineers are based in the US, Europe, Australia and China and knowledgeable, trained representatives are located in Brazil, Chile, India, Korea, Mexico, Russia, South Africa, Spain, Thailand, Turkey and the Ukraine. They can consult on test system selection, install equipment, and train operators and QC personnel.

MAC operates manufacturing plants in Ostersund, Sweden; Boardman, Ohio US; and Elmsford, NY US. MAC is a registered ISO 9001:2008 company.

**Exhibitor profile**

Magnetic Analysis

Number of employees	100-499
Business volume	–
Export quota	–
Founding year	1928
Business segment	Tube manufacturing machinery, Measuring and control technology, Test engineering



wire Düsseldorf - Tube Düsseldorf  
Internationale Fachmessen  
www.wire.de / www.Tube.de

**Product Overview**

Magnetic Analysis

tube.06.02.03	Eddy current test and magnetic particle examination
tube.06.02.04	Sonic and ultrasonic testing
tube.06.03.06	Other tests
wire.06.01.02	Non-destructive material testing
wire.06.03.04	Insulated Wire Cables
wire.06.03.05	Bare wire, rod and wire ropes
wire.06.03.06	Fasteners
wire.06.03.08	Hardness tester

**Product Details**

Magnetic Analysis

tube.06.02.03	Eddy current test and magnetic particle examination
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**MultiMac® Eddy Current Tester**



The versatile MultiMac® lets you configure your eddy current test application the way you want - all with just one tester. MultiMac test channels can be individually configured for use with encircling or sector test coils as well as rotating test probes - eliminating the need to have several instruments.

Yet MultiMac includes the best features of MAC's individual encircling coil and rotary probe instruments. Features include up to 8 test channels in any combination, and a broad test frequency selection from 1KHz to 5MHz. All test channels can operate simultaneously at the same or at different frequencies

MultiMac® can operate on a wide variety of non-magnetic products, or use Direct Current saturation systems to inspect magnetic material. Test speeds can range from one foot per minute up to several thousand. Installation can be in-line or

at a separate test station. End suppression circuitry, when combined with an optional sensor can be used for testing cut lengths to prevent false signals from leading and trailing ends.

The instrument is packaged in a heavy duty cabinet that includes a built-in monitor, air conditioning, and pull-out keyboard. There is no need to access the cabinet interior during setup and operation. The MultiMac is also available in other cabinet configurations that do not include the heavy duty cabinet and built-in monitor. These models include output connectors for an external monitor, and can be housed in an environmental cabinet with air conditioning where needed.

tube.06.02.04

Sonic and ultrasonic testing

### Echomac® FD-5 Ultrasonic Instrument

Echomac® ultrasonic instruments can be configured with up to 32 simultaneously synchronized channels. They provide outstanding performance for in-line user configured flaw detection, and ID, OD and thickness measurement for each channel. Full network support is available for remote viewing and controls.



Echomac instruments can be installed with MAC Rotary Transducer Mechanisms, MAC's new APC Transducer carrier unit for spin the tube systems, squirter and other couplant systems. For higher throughput speeds, however, MAC's Rotary system is the best solution. Echomac Rotaries are available for inspecting material from 6.35mm to 500mm diameter at test speeds up to 400 fpm, depending on the size and condition of the material. Rotating transducers are available for shear wave configuration (to detect surface and subsurface defects) and compression-wave configuration (for internal defects and dimensional measurements such as wall thickness).

tube.06.03.06

Other tests

### ROTOFLUX® FLUX LEAKAGE FOR TUBE TEST

#### FLUX LEAKAGE TESTERS

Magnetic Flux leakage (MFL) non destructive test systems accurately detect defects in heavy-wall magnetic tubing, including oil country tubular goods (OCTG). Transverse and Longitudinal systems are available in sizes to handle up to 19.6" (500 mm) diameter tubes. Magnetic flux leakage testing technology allows detection of transverse and longitudinal surface defects on the OD and ID as well as defects within the wall.



Magnetic Analysis Corp.'s Rotoflux® electronics are used with a rotary system where the material under test is driven through a rotating headplate. During testing, an electromagnet creates intense flux flow around the material. When a defect interrupts and blocks some of the flux lines, they extend beyond the material creating "leakage flux" that can be detected by the electronics.

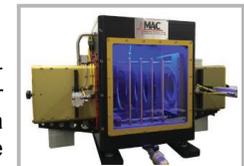
Multi-Test systems that combine the Rotoflux® with MAC's Echomac® Ultrasonic test systems, provide a system that is compliant with API 5CT and 5L, ASTM E570 and other standards, including those that require Ultrasonic testing as the first method and a second test method at the discretion of the pipe producer. The Ultrasonic technology provides critical full inspection capability, including shear wave inspection of longitudinal and transverse defects at any quality level and wall thickness measurement and lamination detection. The addition of the UT rotary to the magnetic flux leakage testers provides complete all-direction test capability and gives the user full flexibility to optimize the pipe inspection process. Together, the dual technologies (UT and Flux Leakage) provide a far more comprehensive test.

wire.06.01.02

Non-destructive material testing

### ECHOMAC® PHASED ARRAY FOR BAR

Recognizing that there are some situations where customers prefer phased array ultrasonic technology over conventional rotary ultrasonics, MAC is introducing a 180mm Phased Array Test System for testing bar. The new system incorporates high-speed parallel processing to handle a large amount of data.



Features include:

- Convenient transducer cassettes that are used to hold transducers for different size ranges and allow for fast changeover times.
- A unique water box design to minimize water loss and bubbles, while ensuring that bars are properly centered relative to the transducers.
- Software based on the MAC Echomac® platform which is recognized in the industry for power and flexibility.

This product introduction is expected to be the first in a line of phased array products that will address different size ranges and markets.

### MINIMAC® 55



MAC's new Minimac® 55 brings high performance eddy current testing to a broad range of production applications for wire and cable, at an affordable price. This is the first eddy current tester to offer the robust capabilities of Magnetic Analysis Corp.'s top of the line MultiMac®, in a powerful, compact design.

The instrument is especially well suited for dedicated, continuous production line testing where simple setup, without the need for constant operator adjustment, is desirable. Once the optimum settings have been established, a lockout mode feature can be set to prevent unauthorized changes.

Defects and conditions that can be readily detected by the Minimac 55 include finding short surface and some subsurface defects such as laps, slivers and cracks in bar, wire and parts. The Minimac 55 can also check continuity and locate welds in single and multi-conductor insulated wire and cable, and, using the MID model, detect magnetic inclusions such as iron filings in copper material.

The Minimac 55 features MAC's proprietary MultiMac performance, in a single channel instrument, with software controls for all functions including phasing, filtering and sensitivity, all while operating at speeds over 4000 f.p.m.

The test results are displayed in full-color polar and linear mode showing real time, true wave form signals for easy review on a separate on-site monitor or at remote locations. The Track screen depicts the test product's length, with data on the line speed, end suppression, flaw tracking, piece count and alarm routing.

Linear strip charts and complete test data, as well as an unlimited number of settings can be stored, annotated and recalled from a library on the internal storage device or network. When networked, multiple instruments can share the same library to ensure correct settings in multiple test lines. Setup and monitoring can be handled through a computer network, and reports with customer, product information, defect location, time, amplitude and phase, can be stored locally or on a network server for quick follow up and quality assurance.

### MULTIMAC® EDDY CURRENT TESTER



The versatile MultiMac® lets you configure your eddy current test application the way you want - all with just one tester. MultiMac test channels can be individually configured for use with encircling or sector test coils as well as rotating test probes - eliminating the need to have several instruments.

Yet MultiMac includes the best features of MAC's individual encircling coil and rotary probe instruments. Features include up to 8 test channels in any combination, and a broad test frequency selection from 1KHz to 5MHz. All test channels can operate simultaneously at the same or at different frequencies

MultiMac® can operate on a wide variety of non-magnetic products, or use Direct Current saturation systems to inspect magnetic material. Test speeds can range from one foot per minute up to several thousand. Installation can be in-line or at a separate test station. End suppression circuitry, when combined with an optional sensor can be used for testing cut lengths to prevent false signals from leading and trailing ends.

The instrument is packaged in a heavy duty cabinet that includes a built-in monitor, air conditioning, and pull-out keyboard. There is no need to access the cabinet interior during setup and operation. The MultiMac is also available in other cabinet configurations that do not include the heavy duty cabinet and built-in monitor. These models include output connectors for an external monitor, and can be housed in an environmental cabinet with air conditioning where needed.

### ROTOFLUX® AC



New from MAC - AC Flux Leakage Tester for hot rolled bar

Designed to test hot rolled bar from 20mm to 180mm diameter. Until recently, MAC has been testing hot rolled bar with eddy current rotaries, which can find defects down to .2mm deep. Now Rotoflux® AC technology will extend this capability to even smaller defects and to products that have surface conditions that prevent detection of shallow defects.

The system is based on MAC Rotoflux® technology. It incorporates the latest multiplexing and wireless signal transfer features to minimize noise while maximizing sensitivity.

### ROTOMAC® HS EDDY CURRENT TESTER

Latest in MAC's line of Rotomac® eddy current testers, the Rotomac HS is designed for ease of use and superior performance in detecting longitudinal, seam type defects in small diameter wire and bar ranging from 2mm to 20mm (0.07874 to 0.7874") diameter. Applications can include lines with continuous wire operations such as drawing, spring-making, parts forming, and straight and cut.



Features include highly sensitive non-contact testing with improved, easy to set up distance compensation, a critical factor in testing ovate wire. A dial in diameter guide operates with simple adjustment tools to adjust both probes, simultaneously, to the desired diameter. Probes which are easily centered on the product center of rotation and quick twist-on bushing holders add to the convenient operation of this rotary. Capable of rotating at 18,000 rpm while testing, the Rotomac® operates with MAC's Multimac® eddy current instrumentation to complete the system.

### Mathiasen Machinery, Inc.

Address	450 Town Street 06423 East Haddam, CT USA
Phone	+1 860 8731423
Fax	+1 860 8738866
Internet address	www.mathiasen-machinery.com
E-Mail	mmi@mathiasen-machinery.com
Stand	Hall 12, A55



### Company Description:

Mathiasen Machinery buys and sells USED wire and cable machinery. Machinery is purchased for inventory or it can be sold on an exclusive basis. MMI has interest in locating individual machines, complete lines or entire plants. Consignments, warehousing, appraisals and liquidation services are also offered. MMI has buyers seeking all types of good quality used wire and cable machinery. Inventory, for-sale and wanted lists are updated regularly. Provide prompt delivery of photos, video, and/or on-site inspections. MMI arranges for competitively priced transit and quick delivery upon payment.

Wire and Cable Markets Served: Domestic and international. Active in the U.S., Canada, Mexico, Central and South America, Europe, and Asia. Ferrous and Non-ferrous production machinery.

Product Lines - Used Machinery: Include rod, intermediate and fine wire drawing machines; bunchers; nail machinery; barbed wire; annealers; cablers; stranders; extruders; bull blocks; take-ups; coilers; draw, straighten and cut machines; spoolers; rolling mills; drum twisters; tube machines; fence machines; fastener machinery, continuous casting machines and other types of used wire and cable machinery.

Principle Personnel: Mark Mathiasen, President Michael Mathiasen, Vice President

Facilities: Covered warehousing and machinery storage in East Haddam and Waterbury, Connecticut. Warehouse loading docks offer step deck and flat bed truck capabilities. Both locations provide easy access to main highways. Office at the East Haddam, Connecticut location.

Company History: Mathiasen Machinery, Inc. was founded in 1983 by William (Bill) Mathiasen. At that time, Bill had over 30 years of experience in the wire and cable industry with Syncro Machinery; Hudson Wire Company; and Anaconda Wire and Cable.

Mark Mathiasen joined the company as sales engineer one year later. The growing company moved from a home operation in 1988 when the East Haddam warehouse and office location was purchased. In 1993, Michael Mathiasen was hired as sales engineer and Mark was promoted to Vice President.

Bill retired in 1996 and his two sons assumed daily operation of the company. Mark was promoted to President and Michael to Vice President. Bill passed away on October 7, 2008 at the age of 77. His spirit remains.



**Product Overview**

Mathiasen Machinery, Inc.

wire.01.13 Used, rebuilt and reconditioned machinery (all machines from 01.01 to 01.12)

**Product Details**

Mathiasen Machinery, Inc.

wire.01.13 Used, rebuilt and reconditioned machinery (all machines from 01.01 to 01.12)

**Aluminum Sheathing Press**

Aluminum Sheathing Press

Water Hydraulic, continuously working, aluminum sheathing press of two column design

Capacity: 3000 MT

Operating pressure: 400 bar

Stroke of solid ram: 1400 mm

Stroke of hollow ram(bottom ram): 155 mm

Container bore: 185 mm

Aluminum billet length: 620 mm

Billet diameter: 170 mm

Billet weight (approx): 38 kg

Die block size: 20 mm dia to 120 mm dia over plain sheath

Total electrical load: 1300 kw

Minimum and Maximum Pipe size 40 mm to 150 mm Diameter

Corrugation Unit Self Adjusting type, Helical type to suit above diameters



**Cook Single Twist Buncher**

Cook Single Twist Buncher

Model BH-16

16" dia. reel, 250 lbs.

Lay range 1/4" to 3"



Motor 7.5 HP

Four (4) Available

**Copper Rod Upcaster Systems**

Two (2) Complete Continuous Copper Rod Upcaster Systems

Manufacturer: Shanghai Engineering

Model: SL2008-13B-ZD-AC-LQ

Year of mfg.: 2008

Technical specification each line.

Output/month: 770 ton

Induction furnace: triple furnaces combined

Up-casting rod: 8-12 mm

Casting strands: 20

Speed of draw-up: 0-3 m/min (2.5 checked high)

Speed of melting copper: 1250 kg/h (1,150 checked average)

Consumption rate of melting copper: less than 350 kwh/ton

The water flow: 50 m3

Installed capacity for machine: 800KVA

Specification rod

Rod tensile strength: greater than or equal to 170N/mm2 (checked average 176 N/ mm2)

Rod elongation: greater than or equal to 35 percent (checked average 40 percent)

Conductivity: greater than or equal to 100 percent IACS (checked average 100.5 percent)

Oxygen content: less than or equal to 10ppm (checked average 4 ppm)

Modification: The original control system temperature in a single furnace (holding furnace), was replaced by an individual temperature control in each furnace (melting furnace and holding furnace) to reduce defects by solidification.

Both line are still installed, but have been shut down.





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www.wire.de / www.Tube.de

## Mectron Engineering Co., Inc. Mectron Inspection Systems

Address	400 South Industrial Drive 48176 Saline, MI USA
Phone	+1 734 9448777
Fax	+1 734 9448778
Internet address	www.mectron.net
E-Mail	sales@mectron.net
Stand	Hall 15, A26



### About us

Mectron Engineering Company, Inc., was founded in 1968 to design and manufacture quality control and handling systems utilizing eddy current and ultrasonic instrumentation.

Today, Mectron offers its own complete line of laser, eddy current, and thread inspection systems. Individual parts are scanned and measured as they pass through Mectron's high speed systems. Products are inspected for dimensions, diameters, lengths, foreign material, thread defects, part damage, metallurgical defects, hardness, cracks, etc.

Mectron Engineering's product development team has been awarded several patents on laser and eddy current inspection systems. Recent developments have yielded a new state-of-the-art laser, which will bring part inspection to another level.



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Internationale Fachmessen  
www.wire.de / www.Tube.de

### Company Contacts

Mectron Engineering Co., Inc. Mectron Inspection...

#### Department/Name Address

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Scott Corrunker scott@mectron.net

Mark Hanna mark@mectron.net

### Product Overview

Mectron Engineering Co., Inc. Mectron Inspection...

wire.05.12 Laser measuring equipment

### Product Details

Mectron Engineering Co., Inc. Mectron Inspection...

wire.05.12

Laser measuring equipment

#### LT SERIES

X-Y Axis Laser Scan and Magnetic Imagery™ System (Digital Eddy Current) (LT Inspection units suit cylindrical applications in fasteners and precision components. Vibratory bowl and packaging system options are included on all quotations to provide a complete turnkey operation



#### Q5000

The most advanced inspection systems available on the market today, the Qualifier Q-series deliver high speed gauging and metallurgical inspection for a variety of parts in a wide range of materials.

Utilizing Mectron's patented laser array, the Qualifier provides 360 ° inspection of each piece, displays its dimensions on the computer touch screen and automatically inspects the part features and measurement. This patented technology separates Mectron from all other inspection equipment companies.



Mectron's radial array of laser light provides a distinct advantage with the part



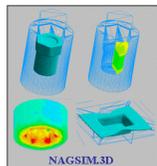
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being inspected by multiple point occlusion. The degree of occluded light is directly related to the part's dimensions as it moves through the inspection points.

Simply pass a good part down the track to automatically display the part outline on the instrument's touch screen. Utilizing your part print, you can set up an unlimited number of gauge zones for each of the eight lasers.

### Metal Forming Systems, Inc.

Address	7974 Lilley (B-106) 48187 Canton, MI USA
Phone	+1 734 4515415
Fax	+1 734 9814438
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E-Mail	nagsim3d@yahoo.com
Stand	Hall 15, A45



### Metal Forming Systems, Inc.

METAL FORMING SYSTEMS, Inc. develops and supplies progression design software (NAGFORM) and simulation software (NAGSIM) to its customers. Their software (NAGFORM, NAGSIM.2d and NAGSIM.3D) help the users advance from part print to manufacturing process in a short period of time.

With the help of these products, the customers can effectively design the part progressions (using NAGFORM) and test their tooling (using NAGSIM.2D / NAGSIM.3D) before investing in their resources. Metal Forming Systems continues to make major enhancements to these products.

Following products will be on display at the Wire Dusseldorf 2016 Show - Hall 15 Booth A45

NAGFORM is a knowledge based software program for automatic and manual



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design of forming sequence for formed parts. It allows the user to capture manufacturing knowledge and use it to design progressions for similar parts quickly in minutes. The sequence designs created in NAGFORM can be tested effortlessly in NAGSIM.2D FEA simulation software.

NAGSIM.2D is a finite element software program for the computer simulation of two-dimensional metal forming processes. It can simulate large plastic deformation of the part as well as the elastic deformation of the tools. It complements 'NAGFORM', a knowledge-based program to create alternative forming sequences to form a part. NAGSIM.2D and NAGFORM together present a breakthrough in the development and optimization of forming sequence for a part.

NAGSIM.3D is a general purpose finite element analysis (FEA) software program for the computer simulation of three dimensional metal forming processes. NAGSIM.3D can simulate large plastic deformation of the part and elastic stresses in tools. Its powerful solver uses a modified tetra element that allows automatic meshing of complex parts.

FOR MORE INFORMATION, PLEASE VISIT

[www.nagform.com](http://www.nagform.com)

Or Contact us at

7974 Lilley Road  
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### Company Contacts

Metal Forming Systems, Inc.

Department/Name	Address
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Gaurav Nagpal	Metal Forming Systems, Inc. USA-48187 Canton, MI Phone: +1 734 4515415 Fax: +1 734 9814438 gaurav@nagform.com

### Product Overview

Metal Forming Systems, Inc.

wire.07.08      Research and training

### MGS Manufacturing, Inc. (The MGS Group - MGS-Hall-Northampton)

Address	122 Otis St. 13442 Rome, NY USA
Phone	+1 315 3373350
Fax	+1 315 3374502
Internet address	www.mgshall.com
E-Mail	sales@mgshall.com
Stand	Hall 09, E06-3



### COMPANY PROFILE

**Mission Statement:** The MGS Group is dedicated to providing its customers the highest level of automation and technology for product handling and twisting systems, customized to optimize individual applications, using comprehensive design and engineering capabilities, with equipment ruggedly built for decades of reliable, consistent service.

**The MGS Group History:** Following the acquisition of Northampton Machinery in May 2003, the enlarged MGS Group is continuing to establish its position as a leading equipment supplier to the wire and cable industry.

A new Sales And Service Center was opened in Northampton, England in September 2003 to complement the brand new 70,000 sq. ft. facility of MGS Manufacturing in Rome, New York. The MGS Group is fully equipped with sales, technical, and manufacturing facilities in both locations. Innovative new products are progressively being designed and introduced to the market at the company's R&D facility in Branford, Connecticut.

The MGS Group consists of MGS Manufacturing, HALL Industries and Northampton Machinery. All are well known, established suppliers of high quality wire, cable and fiber optic machinery with sales throughout the world. MGS was formed in 1969 in Rome, New York and in 2002 completed its sixth expansion by relocating to a new facility in the Griffiss Business and Technology Park. HALL Industries, acquired by MGS in 1994, was formed in 1972 by Marcus Hall to supply product-handling equipment to the wire and cable industry. Today the HALL product line includes a full range of product handling systems to the wire, cable, fiber optic and telecommunications industries including a new fully automatic packaging system. Northampton Machinery, founded in 1902, has supplied high-speed wire and cable stranding equipment, throughout the world, since the 1950s. Northampton supplies a complete range of machinery to the data and communications, automotive, house wiring and power cable sectors, from fine wire bunching and cable twinning through a large rigid and planetary armoring stranders.

### Product Overview

MGS Manufacturing, Inc. (The MGS Group -...)

wire.01.09.04      Twisting, bunching



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**Product Details**

MGS Manufacturing, Inc. (The MGS Group - ...)

wire.01.09.04

Twisting, bunching

**BUNCHERS AND TWINNERS**

MGS / HALL designs and manufactures product handling solutions which include Payoffs, Takeups, Dancers, Accumulators, Measuring Machines, and Capstans to handle most any product from sensitive optical fiber to 1000MCM (507-mm<sup>2</sup>) power cable. We also can handle odd shapes, tubing, ribbon, and tape.



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. Machines that are built to meet the specifications of the individual customer is a characteristic of MGS/HALL systems. Comprehensive design and engineering capabilities together with meticulous manufacturing techniques and careful testing assure customer satisfaction. Some say we design machines with the user in mind. We like to think we're in the business of solving problems for other businesses - like yours

**Micro Products Company**



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Fax	+1 630 4069552
Internet address	www.micro-weld.com
E-Mail	info@micro-weld.com
Stand	Hall 09, C73



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**About Us**

Micro Products Company manufactures electric resistance butt and flash welders for the continuous processing of wire and cable. These welders are specifically designed with the wire industry in mind. The unique design offers simplicity of operation, allowing any operator to make quality welds.

We help you process your wire, rod or cable in the most efficient and cost effective manner possible. This has been our goal for over 80 years.

With over 50 models to choose from, including a wide variety of accessories, we have one that is right for you.

**Exhibitor profile**

Micro Products Company

Number of employees	50-99
Business volume	—
Export quota	—
Founding year	1928
Business segment	Raw materials, tubes and accessories

**Product Overview**

Micro Products Company

wire.01.11.01	Wire and rope welding machines
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Internationale Fachmessen  
www.wire.de / www.Tube.de

**Product Details**

Micro Products Company

wire.01.11.01

Wire and rope welding machines

**G Series Butt Welders For Copper, Aluminium & Steel Wire**

Models "GC", "GS", and "GT" have all the features commonly associated with other Micro-Weld butt welders. Ease of operation, heavy duty construction and unsurpassable weld quality have all been engineered into these units.

The G Series includes Model GC for welding copper and aluminium wire, and Models GS and GT for steel wire.

Standard features for all models include:

- Sensitive Straight Slide Movable Welding Headpiece
- Changeable Welding Dies and Clamp Shoes
- Safety Flash Guards

Annealing devices for all models are available.

For more information on G Series welders or the wide range of over 50 models, contact Micro-Weld.



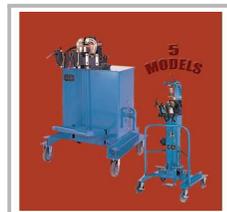
**J Series Butt Welders for Copper & Aluminium Wire & Rod**

Our J Series Micro-Weld butt welders are designed to work harder, last longer and offer consistent high quality welds for copper and aluminium wire or rod to .5 inch (12,7 mm) in diameter. Five models are available in this series.

Featuring extra heavy-duty transformers, the J Series butt welders are engineered for cost-efficient welding and continuous processing of copper and aluminium wire and rod products. The extra heavy-duty primary coils and secondaries in the welding transformers make them powerful and long-lasting.

Welders feature:

- Single operation - quick foot pedal operation activates clamping-upset and electrical circuits automatically



- Self-aligning welding dies
- Pivot type welding headpieces

For more information on our J Series welders or the wide range of over 50 models, contact Micro-Weld

**Non-Ferrous Butt Welders**

E1C & SEMT Fine Wire Butt Welders

For Copper & Aluminum wire diameter range: .007" to .020" (.177mm to .508mm).

Fine wire needs a fine welder. Micro-Weld welders for Copper and Aluminum wire are the finest available.

Standard features include: Straight slide headpiece (model E1C) Capacitor discharge welding system (model SEMT) Adjustable upset pressure Lamp and shear

These fine wire welders have been designed to work harder, last longer and offer continuous operation for excellent quality welds on a consistent basis.



**Mill Masters, Inc.**



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USA

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E-Mail

Stand Hall 06, C29-01



### About Mill Masters Inc

Being the world's leading manufacturer of Thin Wall Tube Mills and related equipment used to produce welded, folded and lockseam tubing, we pride ourselves on being a complete resource for the thin wall tube industry. Mill Masters offers total design and engineering of our Tube

Mill Systems. We not only design the machinery to fit your needs, we manufacture its parts in our state of the art manufacturing facility to ensure its quality. Our precision design, engineering, construction and installation help you to realize the optimum value of our product. As evidence of our commitment to quality, Mill Masters is currently in pursuit of ISO-9001 certification.

With the acquisition of the assets and intellectual property of McKenica, Inc. in 1999, Mill Masters further expanded our product line to include the McKenica brand of Tube Mills and auxiliary equipment. With the benefits of shared technologies between the Mill Master and McKenica brands, we are now able to offer the best Thin Wall Tube Mill machinery and tooling available today.

To compliment our high quality Tube Mills, Mill Masters offers the necessary components and tooling to keep your mill operating at maximum performance. Subplates and tooling are available to quickly change over your Tube Mill as needed to meet your customer's demands. Whether your need is for new tooling, regrinding of existing tooling, tube mill components, subplates, or burst testers, Mill Masters is prepared to meet your needs.

### Exhibitor profile

Mill Masters, Inc.

Number of employees	20-49
Business volume	10-49 Mio US \$
Export quota	max. 75%
Founding year	1991
Business segment	Tube manufacturing machinery, Rebuilt and Reconditioned Machinery, Process technology tools and auxiliaries, Measuring and control technology, Profiles and machinery

### Company Contacts

Mill Masters, Inc.

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**Product Overview**

Mill Masters, Inc.

tube.02.03.01	Tube forming equipment
tube.02.03.02	Tube welding equipment
tube.02.03.03	High-frequency welding equipment
tube.02.03.04	Induction welding equipment
tube.02.03.06	Inert gas welding equipment (TIG, ERW, MIG)
tube.02.03.08	Soldering equipment
tube.02.03.11	Inside and outside scarfing systems for longitudinally welded tubes
tube.06.02.03	Eddy current test and magnetic particle examination
tube.09.07	Welding equipment ERW, Spiral, Seam, MIG TIG

**Product Details**

Mill Masters, Inc.

tube.02.03.01 Tube forming equipment

**McKenica and Mill Masters Spare Parts**

**Spare Parts**

Mill Masters Precision Parts & Tooling are manufactured to standards that are second to none.

We have Spare Parts & Tooling For:

McKenica Tube Mills & Equipment

Mill Masters Tube Mills

All other Brands Available

tube.02.03.03 High-frequency welding equipment

**Mill Masters Elite and Ultra H.F. Welded Tube Mills**



Mill Masters Elite and Ultra Series High Frequency Welded Tube Mills use the latest High Frequency Induction weld technology to achieve high production rates including line speeds up to 600 feet per minute (183 meters per minute) with maximum uptime and minimum scrap. These mills are designed to produce flat-oval tubes ranging from 12mm to 85mm in a variety of materials including aluminum, brass, stainless, and cupro-braze alloys - in wall thicknesses ranging from .127mm to 3mm depending on material.

Mill Masters' Elite and Ultra Tube Mills utilize quick-change subplate systems that incorporate the weld box on the forming subplate - for the fastest possible tube size changes. Every component that touches the strip as it is formed into a tube - from the entry stock guidem the forming stations, the seam guide through the weld rolls - all come of the mill together - are inventoried together - and come back to the mill together - for perfect alignment - fast startups - high quality - and low scrap.

**Mill Masters H. F. Welded 300 Series Stainless Mills**

**Mill Masters High Frequency Welded 300 Series Stainless Steel Tube Mills**

Introducing Mill Masters new High Frequency Welded 300 Series Stainless Steel Tube Mill. Mill Masters Engineers have developed a new process for High Frequency Welding 300 series Stainless Steel at speeds in excess of 400 feet per minute (122m/min). This technology breakthrough is changing the Thin Wall Stainless Steel Industry. The Spectrum Stainless Steel Series of Tube Mills will produce Stainless Steel Tubing from 8mm to 26mm in diameter in most any shape equivalent to the diameter. Wall thicknesses range from .010 to .030" (.25 to .76mm). The tubes manufactured on the Mill Masters Spectrum Stainless Steel Series Tube Mill are for most any Stainless application including high pressure applications. The tubes manufactured meet ASTM 851/E426/A450/A450M and applicable ASTM 249 specifications with optional annealing furnace. Inline cut offs are available for cutting lengths down to 12" (304mm) with a continuous non-interrupted operation. The Spectrum Series of Tube Mills are fully integrated and testing in our facility to insure a quick start up and years of service in your plant.

Applications include: Boiler Tube, Heat Exchangers, EGR Cooler Tubes, Condensers and many other high pressure and decorative uses.

Mill Masters also offers the Premier series TIG mills for lower production requirements. Both the Spectrum series and Premier series utilize the latest technology and state of the art controls. Both series can be supplied as a completely inte-



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grated mill system, from payoff through to the take up, or as a partial system designed around your applicable existing components. Mill Masters Tube Mills are built for years of service and offer a level of quality that can only be found at Mill Masters.

#### **Mill Masters Spectrum High Frequency Welded Cable Mill**

Mill Masters Spectrum High Frequency Welded Cable Mill.

By using high frequency for welding the aluminum or copper tape around your inner core and then by reducing the outer shield, Mill Masters can increase your cable production by upwards of 10 times your current output.. Wall thicknesses from .008"(.2mm) to .040"(1mm), and diameters from .250"(6.35mm) to 1"(25.4mm) can run at speeds in excess of 400fpm(122mpm). The Mill Masters HF welded tube mill utilizes a unique process that enables you to weld your cable with little or no coolant. The end result is a dry cable prior to the weld area, thus eliminating the possibility of any contaminants getting inside to the core area.

Mill Masters also offers the Premier series TIG cable mills for lower production requirements. Both the Spectrum series and Premier series utilize the latest technology and state of the art controls. Both series can be supplied as a completely integrated mill system, from payoff through to the take up, or as a partial system designed around your applicable existing components. Mill Masters cable mills are

#### **Mill Masters' Spectrum Series Stainless Steel H.F. Tube Mill**

Spectrum Series

The Mill Masters Spectrum Series of tube mills utilize High Frequency Induction Welding as it's weld source. The Spectrum Series has the capacity to produce aluminum, brass, steel or 400 series stainless tube ranging from 6mm to 76mm OD in any shape equivalent to the OD. By welding the tube in a round shape, and reforming it to size, the Spectrum is one of the most versatile mills offered. Mill Masters Spectrum series High Frequency Welded Tube Mills are an excellent candidate for welding cable at a very high speed when compared to the more traditional way of welding with TIG.

Applications:

Decorative/Protective Consumer Products, Appliances, Furniture, Marine, Aerospace, Gas Burner Tubes, Air Conditioning/Refrigeration, Condensers, Evaporators, Co-axial and Fiber Optic telecommunications cable.



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tube.02.03.04

Induction welding equipment

#### **Dimple Free Zone Tube Dimple Station**

Introducing Mill Masters New Dimple Free Zone Tube Dimple Station. No more hassles with Dimples at the tube ends creating poor header to tube joints.

The Mill Masters Dimple Free Zone Tube Dimple Station is PLC Controlled allowing for precise dimple positioning at the tube cut area. Contact Mill Masters Sales Representative for more information.



tube.02.03.06

Inert gas welding equipment (TIG, ERW, MIG)

#### **Mill Masters Premier series TIG cable mills**

Mill Masters offers the Premier series TIG cable mills for lower production requirements. Both the Spectrum series and Premier series utilize the latest technology and state of the art controls. Both series can be supplied as a completely integrated mill system, from payoff through to the take up, or as a partial system designed around your applicable existing components. Mill Masters cable mills are built for years of service and offer a level of quality that can only be found at Mill Masters.

Applications include: Telecommunications, Coaxial, and Fiber Optic.

Both the Spectrum series and Premier series utilize the latest technology and state of the art controls. Both series can be supplied as a completely integrated mill system, from payoff through to the take up, or as a partial system designed around your applicable existing components. Mill Masters Tube Mills are built for years of service and offer a level of quality that can only be found at Mill Masters.



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## Miltec UV

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Stand	Hall 09, E06-6



### Miltec UV—Providing Innovative UV Curing Systems & Parts

Miltec UV is proud to be the UV's industry leading manufacturer of high performance UV electrode (arc) and electrode-less (microwave) systems. Over the past 22 years, Miltec UV has developed comprehensive capabilities and a staff of technical experts to provide custom engineered turnkey microwave and arc technology UV systems for our customers, as well as consulting, training, technical support, and replacement parts for all UV systems on the market.

We invite you to visit our website at [www.miltec.com](http://www.miltec.com) for more innovative UV solutions. When you need solutions to your UV curing requirements, please contact us so we may work with you to explore the most current products available to fit your needs.

Miltec UV

146 Log Canoe Circle

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sales@miltec.com

www.miltec.com

### Exhibitor profile

Miltec UV

Number of employees –

Business volume –

Export quota –

Founding year 1989

Business segment



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Miltec UV

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## Product Overview

Miltec UV

wire.01.12.06	Fibre optic manufacturing machinery
wire.01.14	Spare parts for wire and cable machines

## Product Details

Miltec UV

wire.01.12.06	Fibre optic manufacturing machinery
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## ADV Honeycomb RF Sreen



Miltec UV's patented ADV Honeycomb RF Screen provides quick, easy bulb, and component changes resulting in less down time and labor savings. The advanced engineered design and manufacturing process used to make the screen's mesh pattern produces a "honeycomb" (hexagonal) mesh pattern with an increase in open area resulting in several benefits. One of the major benefits is an increase of up to 8% in UV Peak Irradiance values versus standard mesh RF screens. In addition, increased number of contact nodes improves conductivity making it less susceptible to arching, having a more robust screen makes it less susceptible to accidental damage during lamp maintenance, and eliminating 8 tiny screws and replacing them with 4 captive quarter turn fasteners makes for a quicker, easy screen removal. Overall, the ADV Honeycomb RF Screen has exceptional benefits which result in improved UV curing efficiency and increased profits .

## Panel Cure UV System



The PanelCure UV system is specifically designed for applications like cabinet door panels, drawer fronts and other components which need leading edge, trailing edge, side and top curing in a single pass. Utilizing a compound angle and pitch array of only 2 lamps, we can achieve 3 dimensional curing for products up to 3" high.

The HPI Panel Cure system operates at 650 watts per inch and is capable of running mercury, gallium additive and iron additive lamps.

## The MPI-400 UV Curing System



Miltec UV is pleased to present a faster, curing, more efficient, high powered UV curing system...the MPI-400. This 400 WPI electrodeless UV system quite simply outperforms the competition where it matters most. Shockingly fast cure speeds are now possible given the system's ability to deliver the highest peak irradiance UV energy at the focal point available today. The MPI-400 is an excellent choice for Optical Fiber coating and coloring lines and is the most efficient UV curing system available today. Other inherent benefits include long bulb life, stable UV output for the life of the bulb, low heat (IR) emissions, modular design for ease of installation, fast starting lamps eliminating the need for shutters, and



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much more. This unit uses less electrical consumption with energy savings of 25% compared to the leading competitor's UV system. Quick, easy bulb and component changes with Miltec's patented Quick Release ADV Honeycomb RF Screen means less down time and labor savings. In addition to UV equipment, Miltec UV offers a complete spare parts product line for all manufacturers of microwave powered electrodeless UV equipment. Our spare parts include but are not limited to, electrodeless UV bulbs, RF screens, magnetrons, reflectors, and much more. If arc lamp UV technology is preferred, Miltec UV can manufacture arc lamp equipment for fiber coating and coloring applications as well as supply replacement arc lamps, reflectors, and many other parts for virtually all arc lamp UV equipment.

### Nano-Diamond America, Inc.

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Phone	+1 434 2200435
Fax	+1 804 9807770
Internet address	www.nano-die.com
E-Mail	admin@nano-die.com
Stand	Hall 11, B03



### Nano-Diamond America, Inc.

Nano-Diamond America supplies innovative and long-lasting tooling for industrial applications. Nanocrystalline diamond composites are used to achieve significant productivity improvements over traditional diamond tooling.

Nano-Diamond America operates in close partnership with Shanghai Jiaoyou Diamond Coating Company, Ltd. Shanghai Jiaoyou is a highly active innova-



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tor and leader in development of new nanocrystalline diamond applications. As Shanghai Jiaoyou's products achieve market readiness, Nano-Diamond America's mission is simple - to make these high performance and very attractively priced products readily available in world markets.

The major market segments in which we operate are Wire Industry, Energy Cable Industry and Tube Manufacturing Industry. Our main product is Nano-Dies. Nano-Dies are hard at work in every industrial region of the World, conserving raw material, providing better surface finish, extending tooling life and reducing tooling costs.

### Company Contacts

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### Product Overview

Nano-Diamond America, Inc.

wire.02.03.01	Diamond drawing dies
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## NATIONAL MACHINERY EXCHANGE, INC.



Address	158 Paris Street 07105 Newark, NJ USA
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Fax	+1 973 5890944
Internet address	www.nationalmachy.com
E-Mail	sales@nationalmachy.com
Stand	Hall 06, G32



### About us

National Machinery Exchange, Inc. has been the worldwide leader in used metalworking equipment since 1934!

National Machinery Exchange specializes in purchasing and reselling second-hand ferrous and non-ferrous metalworking equipment. We purchase individual equipment and entire manufacturing plants worldwide with Headquarters in Newark, NJ (USA) and offices in Europe and Asia.

National Machinery Exchange areas of expertise include: tube & pipe mills, tube processing equipment, slitting lines, cut-to-length lines, roll formers, rolling mills, Sendzimir rolling mills, fastener equipment, nail makers, forging equipment, extrusion presses, impact extrusion presses, bar processing equipment, wire machinery, spring coilers, four-slides/multi-slides, stamping presses, hydraulic presses, press brakes, shears and additional fabrication equipment.

National Machinery Exchange buys and sells used machinery, second hand, ready to go equipment every day. Our vast inventory changes by the hour, so contact us today. [www.nationalmachy.com](http://www.nationalmachy.com)

### Exhibitor profile

NATIONAL MACHINERY EXCHANGE, INC.

Number of employees 20-49

Business volume 1-9 Mio US \$

Export quota > 75%

Founding year 1934

Business segment



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**Company Contacts**

NATIONAL MACHINERY EXCHANGE, INC.

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**Product Overview**

NATIONAL MACHINERY EXCHANGE, INC.

tube.02.02.01	Cold rolling mills
tube.02.02.02	Hot rolling mills
tube.02.02.07	Pilger mills
tube.02.02.08	Tube rolling mills



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tube.02.02.13	Extruding presses (direct and indirect)
tube.02.03.01	Tube forming equipment
tube.02.03.14	Spiral pipe welding machines
tube.03.05	Tube processing and finishing equipment
tube.09.01.01	Machinery and equipment
tube.10.02.03	Profile roll forming machines

**Product Details**

NATIONAL MACHINERY EXCHANGE, INC.

tube.02.02.01	Cold rolling mills
<b>1/4" NATIONAL Mdl# 34, 2 DIE 3 BLOW COLD HEADER [112543]</b>	
tube.02.02.02	Hot rolling mills
<b>LEVELERS (ROLLER / PLATE &amp; STRETCH)</b>	
7" (178mm) x 7/8" (22mm) BRUDERER #24180B, 19 ROLL LEVELER [111666]	
80" (2050mm) x .120" (3mm) BONAK PRECISION LEVELER [111604]	
9" x 1-1/2" RUESCH 9 ROLL LEVELLER [111494]	
WATERBURY FIVE ROLL PLATE LEVELER [112651]	
60" X .090" HERR VOSS INVERTED PRECISION LEVELER [111269]	
7-1/4" KOHLER #18-1000-2, PRECISION LEVELER AND UNCOILER, ROLL 3/4" DIA x 7-1/4" [111246]	
BRUDERER LEVELER [111667]	
tube.02.02.13	Extruding presses (direct and indirect)
<b>1600 Ton WEAN UNITED STEEL EXTRUSION PRESS [109604]</b>	



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## National Machinery LLC



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Stand	Hall 15, A26



### National Machinery

National Machinery is the world leader in the design, development, and manufacture of cold and warm forming machines that produce metal parts from coiled wire, bars and slugs. Continuing research and development, advanced manufacturing capability and a worldwide network of sales and service locations make National Machinery your partner in metal forming ... on site worldwide.



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## Company Contacts

National Machinery LLC

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PRC Provinz Jiangsu 215151

**Product Overview**

National Machinery LLC

wire.01.02.04	Single-stage presses
wire.01.02.05	Multi-stage presses
wire.01.02.10	Warm forming
wire.01.13	Used, rebuilt and reconditioned machinery (all machines from 01.01 to 01.12)

**Product Details**

National Machinery LLC

wire.01.02.04 Single-stage presses

**Ball and Roller Header**

Bearing Headers are dedicated machines for the bearing industry. These rugged headers form balls, tapered or cylindrical rollers at extremely high speeds to industry standards with exceptional quality.



Faster speeds for more production output. Many easy-to-use quick-change features within reach of the operator, allow for increased production time. Fixed kickout stroke for faster job changeover and set-up. Less flash required than ever before. Precision tolerances are maintained throughout high-volume production runs using ball bearing steels. Production runs of a million or more close tolerance ball blanks are common before reworking dies. 88-92% machine utilization is typical. Machine reliability is so high that a ghost shift is often practical.

wire.01.02.05 Multi-stage presses

**Multi Stage Presses**

LeanFX is the newest member of the FORMAX family. Many of the same innovative, production-proven features that were introduced on FORMAX, are standard on LeanFX. Controls and machine adjustments have been greatly simplified, resulting in cost savings for those parts or markets that demand a more econom-



ical solution.

FORMAX 2000 is part of the FORMAX Technology family that delivers benefits of off-line setup, fast changeover, high part quality, and user friendly controls. The FX2, FX3, FX4, and FX5 machines are available in two, three, four, and five dies, and in Medium and Long work models. They are capable of forming a wide range of part shapes and lengths.

FORMAX Plus machines utilize proven FORMAX Technology with benefits of external setup, fast changeover, high part quality, and user friendly controls. FORMAX Plus machines are enhanced with a Pick-Move-Place transfer (PMP) for difficult to transfer parts, expanded die space with the use of bullnose dies/punches, larger cutoff diameter, and alternate blow capability for high load parts. The FXP2, FXP3, FXP4, and FXP5 machines are available in three, four, five or six dies, and in Short, Medium and Long work models. FORMAX Plus gives you the flexibility to form anything from small stepped parts to large fasteners.

FORMAX Plus for Large Parts applies FORMAX Technology to large diameter equipment. FORMAX benefits of off-line setup, fast changeover, high part quality, and user friendly controls are combined with specific features for large part producers. The FXP6, FXP7, and FXP8 are available in five or six dies and in Short, Medium, and Long stroke models. All are equipped with the Pick-Move-Place (PMP) transfer for added part control. Optional features such as Integrated Wire Drawer, Automated Tool Changer, and Powered Finger Opening/Closing Cams and Wedge Adjustment make forming of complex parts and high production rates a reality.

wire.01.02.10 Warm forming

**Warm Forming**

Warm forming has been done on forming machines for decades, primarily in the aerospace industry because of materials such as titanium. Historically 3-blow 2-die or double stroke (2-die, 2 blow) machines had induction heaters added to them. Today, specialized machines like FORMAX are made with advanced technology designed exactly for warm-formed applications.



FORMAX machines can be custom designed for warm forming applications. The FORMAX Warm Forming machine has all the standard FORMAX features such as Zero Clearance Heading Slide, Precision Linear Feed, Sealed Heading Slide Liners and the Formapak Quick Change System. A FORMAX Warm Former can be either "prepared for warm forming" with basic specials, or customized based



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on the part application requirements and materials formed. This customization is important to have the right machine for the part application, not just a machine simply with a standard heater added.

wire.01.13

Used, rebuilt and reconditioned machinery (all machines from 01.01 to 01.12)

### Used Machines

National Machinery utilizes 6 practices that make their rebuilding capability the best in the industry:

**Professional Inspection:** Utilizing specialized inspection equipment, all machine components are inspected against the original print to verify form, fit, and function.

**Experienced Leadership:** Every rebuild is assigned a project leader according to the leader's expertise. **Machine Validation:** Each rebuild is validated through a 50 hour run-in process, while being monitored by thermographic imaging to verify sufficient lubrication and clearances are being achieved. **Machine Upgrades:** National assigns engineer(s) to each OEM rebuild, who provide guidance regarding repair procedures as well as any upgrades added during the rebuild. **Intellectual Property:** National maintains information and tools specific to each model produced. **Engineering and documentation:** National assigns engineer(s) to each OEM rebuild, who provide guidance regarding repair procedures as well as any upgrades added during the rebuild



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### NDC Technologies Inc. (Beta LaserMike Products)



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Stand	Hall 11, D68

#### Exhibitor profile

NDC Technologies Inc. (Beta LaserMike Products)

Number of employees	100-499
Business volume	100-199 Mio US \$
Export quota	max. 50%
Founding year	1997
Business segment	Measuring and control technology



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www.wire.de / www.Tube.de

**Company Contacts** NDC Technologies Inc. (Beta LaserMike Products)

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**Product Overview** NDC Technologies Inc. (Beta LaserMike Products)

wire.05.06	Equipment for measuring the diameter, width, height and length
wire.05.09	Process monitoring systems
wire.05.12	Laser measuring equipment

**Product Details** NDC Technologies Inc. (Beta LaserMike Products)

wire.05.09 Process monitoring systems

**Coaxial Cable Test Solutions**



DCM Coaxial Cable Test Solutions provide advanced systems for factory and laboratory testing of coaxial cables. Beta LaserMike offers test automation software and bench-top solutions that can be interfaced with the customer's vector network analyzer, or Beta LaserMike can provide turn-key, bench-top solutions. Beta LaserMike also offers fully integrated systems providing complete, turn-key coaxial cable test solutions.

Each Coaxial Cable Test Solution requires a vector network analyzer and VNA calibration kits covering the desired impedances and frequency ranges.

**LN Detector**



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Internationale Fachmessen  
www.wire.de / www.Tube.de

**Lump and Neckdown Detector**

The LN Detector series of products are designed for detection of short-term faults in the diameter of the cable (lumps or neckdowns). LN Detectors are self-contained instruments with fast response circuitry and solid-state infrared light sources that allow instant detection of changes in the cable diameter. Beta LaserMike offers a range of models to meet your unique cable measurement needs.



wire.05.12 Laser measuring equipment

**AccuScan**

**Diameter & Ovality Measurement Systems**

The Beta LaserMike AccuScan Series is the premier diameter and ovality gauge of choice for manufacturers looking to produce higher quality products in less time and with less waste. AccuScan performs fast, precise, and reliable diameter and ovality measurements in an intelligent head and effectively communicates these measurements to a host system or controller.



A complete family of AccuScan gauges is available to meet your unique on-line and off-line measurement needs:



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## OFS

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Internet address	<a href="http://www.ofsoptics.com">www.ofsoptics.com</a>
E-Mail	
Stand	Hall 09, E06-4



### Our mission

We aim to be the premier global provider of added value optical fiber based solutions.

We will do this by a dedication to customer satisfaction built on deep understanding of customer expectations and the needs of their customers.

### Product Overview OFS

wire.04.06.07 Fibre glass cables

### Product Details OFS

wire.04.06.07 Fibre glass cables

#### Backbone Fiber Optic Cables



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 Internationale Fachmessen  
[www.wire.de](http://www.wire.de) / [www.Tube.de](http://www.Tube.de)

### Central Core Fiber Optic Cables

OFS was the first optical cable manufacturer to introduce the central core cable design, offering easy fiber access and maximum fiber density. The central tubes provide the cables with excellent optical, mechanical and environmental performance, making them suitable for a wide variety of deployments, including underground conduit and rugged direct buried applications.



### Optical Fiber by Performance Standard



## Olympus



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Stand	Hall 06, J33



**Olympus provides test, measurement, and imaging instruments.**

Olympus Integrated Inspection Systems

Olympus continually strives to innovate in the development of high-speed inspection systems that adhere to the highest international quality standards, without any compromise to productivity. The Olympus Systems business unit primarily focuses its efforts on developing and delivering industrial inspection system solutions capable of inspecting long metal products, such as bars, billets, wires-rods, and tubes. Olympus offers standardized industrial turnkey solutions that can be adapted to customers' requirements, as needed. Each aspect of the system delivery can be provided through a single project, which may include any of the following: testing equipment, mechanics, electronic instrumentation and automation, a water management system, and commissioning.

Olympus provides test, measurement, and imaging instruments

Olympus provides an industry-leading portfolio of innovative test, measurement, and imaging instruments. Leading edge testing technologies include remote visual inspection, microscopy, ultrasound, phased array, eddy current, eddy current array, X-ray fluorescence and diffraction, and optical metrology. Our products include ultrasonic flaw detectors and thickness gages, videoscopes, borescopes, microscopes, in-line and advanced nondestructive testing systems, XRF and XRD analyzers, and a large selection of industrial scanners, probes, software programs, and instrument accessories.

Olympus instruments are used in industrial and research applications ranging from aerospace, power generation, petrochemical, manufacturing, and automotive to consumer products. Olympus instruments contribute to the quality of products and add to the safety of infrastructure and facilities.

**Exhibitor profile**

Olympus

Number of employees 500-999

Business volume –

Export quota –

Founding year

Business segment Test engineering

**Company Contacts**

Olympus

**Department/Name Address**

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**Product Overview**

Olympus

tube.05.01 Gauges

tube.06.01 Testing of raw materials

tube.06.02.03 Eddy current test and magnetic particle examination

tube.06.02.04 Sonic and ultrasonic testing

tube.06.02.07 Endoscopes

tube.06.02.09 Optical testing



**Product Details**

Olympus

tube.06.02.09

Optical testing

**Bar Inspection System (BIS)**

The BIS can combine phased array (PA) and eddy current array (ECA) technologies to inspect the full volume and the full surface of round and square bars. The system is based on a unique "Floating Head" concept (PA) and on a "Wear Shoes" concept (ECA) for a constant optimal positioning of probes; independently of the straightness variations of the bars.



**PipeWIZARD**

Girth Weld Inspection System

The PipeWIZARD is an automated girth weld inspection system using phased array and conventional UT techniques (AUT). Specially designed for in-site weld-to-weld inspection in extreme environments, on-shore and off-shore.



**WeldROVER Scanner**

The WeldROVER is a simple, industrial-strength, one-axis encoded motorized scanner that provides fully automated data acquisition. It makes efficient phased array weld inspections on ferromagnetic piping or vessel using up to 6 probes. UT, TOFD, PA.



**Pacific Roller Die Company, Inc.**

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**About PRD**

Pacific Roller Die (PRD) Company manufactures and sells Pipe Manufacturing Systems, including Spiral and Longitudinal Pipe Manufacturing Systems, Pipe Coating & Lining Systems, Ancillary Pipe Manufacturing Equipment. The Company has been in operation for over forty years, supplying American Petroleum Institute (API) and American Water Works (AWWA) quality pipe making equipment as well as complete plant facilities. PRD is the only Company that supplies, world-wide, a complete range of Large Diameter Pipe Manufacturing Systems as well as Pipe Coating and Lining Systems. We provide finishing systems for all pipe manufacturing plants. These include ERW, Spiral and Longitudinal.

PRD's Pipe Manufacturing Systems include Large Diameter Weldseam Pipe Manufacturing Systems, Pipe Coating & Lining Systems, Ancillary Pipe Manufacturing Equipment (including hydrostatic testers, X-ray testers, ultrasonic testers, pipe end bevellers, pipe handling equipment, uncoilers, and pipe cut-off and end-forming equipment), Corrugated Culvert Pipe Machines, as well as Turn-Key Pipe Manufacturing Plant Facilities ( including architect and engineering services, all plant equipment, staff selection and training, equipment commissioning, and initial production oversight).

As required, provides special quality control apparatus to improve the quality of pipes to meet the highest international standards.

For Longitudinal Pipes we can also supply mechanical pipe expanders, Pipe

End Beveling and Grooving Machines and Strip Edge Milling Machines to trim edges of strip and plates to prepare for 100% welding.

Corrugated Pipe Machines can produce Composite Pipes of Polymer and Metal Construction.

### Product Overview

Pacific Roller Die Company, Inc.

tube.02.03.01	Tube forming equipment
tube.02.03.14	Spiral pipe welding machines
tube.02.05.02	Straightening
tube.02.05.04	Expanding, deburring, peeling, folding
tube.02.05.18	Coating (with plastic, insulating material etc.)
tube.03.05	Tube processing and finishing equipment
tube.03.06	Materials handling
tube.06.02.08	Hydrostatic tube testing
tube.10.02.06	Profile end forming machines

### Product Details

Pacific Roller Die Company, Inc.

tube.02.03.14 Spiral pipe welding machines

#### CROSS SEAM WELDING MACHINE (CSWM)

PRD Cross Seam Welding Machines, are specifically developed for Spirally Welded Pipe Mills for manufacture of pipe to meet API standards for strip joining. These machines reduce the outside welding time on the joint, resulting in increased overall productivity and efficiency of the mill.

The range covered with PRD CSWM s are:

Diameter 609 mm to 3 048 mm

Pipe Length 6 m to 25 m

Material Thickness 9 mm to 25 mm

Material Grade Up to X 80

PRD CSWM s are equipped with PLC and PC controls which enable the machine to start in "learn mode" then continue the welding process in automatic operation as long as pipes of the same characteristics are being produced.

Standard equipment on the CSWM includes an Urhan & Schwill welding system complete with flux recovery unit. Different system components are available at the request of the customer.

Main CSWM components are:

- Welding Column
- Welding Systems
- Cross Seam Positioning and Transport Cart
- Welding Column

The welding column with 2,000 mm horizontal movement and 1,700 mm vertical movement is designed and constructed to be sturdy and rigid. The column is so designed that during the welding process it moves along the axes of the pipe.

- Welding Systems

The welding torch holder is designed to follow and copy the surface of the pipe, provided that the spiral welding seams do not cause the misalignment of the torch at the ends of the cross seam.

- Cross Seam Positioning and Transport Cart

During the welding process, pipe is rotated and carried along by means of a pipe transport cart. All movement of the cart itself and the welding column are provided by means of servo motors which ease the utilization of the PLC + PC System.

When the pipe data is input into the system through the PC control, the welding path is calculated automatically and the welding process starts.

#### For further information about PRD s spiral weld-seam pipe pro



PRD Company has responded to the needs of pipe producers since 1961. Today PRD Mills offer greater levels of manufacturing versatility – lowering the cost of producing pipe while increasing product offerings.

The New Generation Spiral Weld Mill designs can provide pipe diameters from

200 to 4200 mm, with wall thicknesses ranging from 2 to 25 mm and pipe lengths up to 30 meters.

PRD s versatility adapts to a diverse market. Customized solutions include the capability of a single pipe manufacturing factory typically producing:

"400 mm diameter slurry pipe for ash, coal, phosphate, etc. (conveying within water)

"600 mm diameter pipe for oil/gas (API) transmission

"800 mm diameter pipe for piling (foundation stabilization), structural support, bridges, towers, caissons, etc.

#### PRD Spiral Welded Pipe

PRD has chosen to use the spiral method of forming tubular products because of the flexibility of the process. Spiral pipe can be made from a variety of raw materials, such as carbon steel, galvanized steel, stainless steel, aluminum, and coated metals. A wide range of diameters can be made from almost any width of raw material, and as a result, inventory requirements can be reduced.

Because of our "free forming" method of pipe spiraling, additional tooling or separate mandrels for each diameter of pipe are not required. Minimum changeover time is required for diameter change.

The production output speeds vary according to the type and gauge of the material being used. PRD Spiral Pipe Mills produce smoothwall weldseam pipe for water pipe (AWWA), slurry pipe, line pipe (API), and structural pipe; and spiral lockseam pipe for less severe applications.

PRD s unique, internationally good reputation in the field of quality machinery is further protected by various patents. In an effort to satisfy our customers needs for maximum performance, we are continually improving and upgrading our designs. Total system responsibility is accepted for.

tube.02.05.04

Expanding, deburring, peeling, folding

#### PIPE END EXPANDING MACHINE (PEEM)

PRD Pipe End Expanding Machines are specifically developed for SAW pipe mills to form spigot type pipe ends that conform to AWWA standard applications. With PRD PEEM's both spherical and semi-spherical pipe ends are possible.



The range covered with PRD PEEM's are:

Diameter 609 mm to 3 048 mm Pipe Length 6 m to 25 m Material Thickness 9 mm to 25 mm Max, Hydraulic Pressure 300 Bar Material Grade Up to X 80

PRD PEEM's are equipped with PLC and PC controls which enable the machine to start in "learn mode" then repeat the expanding process in automatic operation as long as pipes of the same characteristics are being produced.

tube.02.05.18

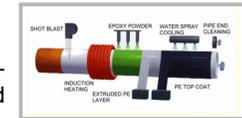
Coating (with plastic, insulating material etc.)

#### 3-LAYER POLYETHYLENE COATING

PRD s 3-Layer PE System provides extremely effective defense against the hazards of transportation and installation, the stresses of temperature change in addition to water, organic acids, alkalis, bacteria, and galvanic action.

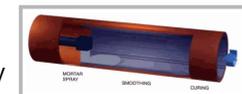
The epoxy primer layer provides reaction sites capable of chemically bonding with the reactive group contained within the terpolymer adhesive layer. This chemical bonding between layers provides very high peel strength adhesion. The effectiveness of epoxy powders differ substantially when used as primers.

To ensure the highest quality of 3-layer pipe coating, the PRD system controls the exact application temperature, gel time and cure time.



#### CEMENT MORTAR LINING

PRD's Cement Lining System provides pipe to convey drinking, waste, raw, industrial, and fire fighting water. This lining provides tough protection and offers a maximum constant service temperature of 80°C.



Cement Lining Process

- 1.Surface cleaning
- 2.Mortar application
- 3.Mortar tightening
- 4.Curing

Production Specifications

Surface Cleaning

All pipe surfaces to be lined are cleaned to remove scale and rust to ensure a secure bond with the cement.

Mortar Application

The mortar is applied through a nozzle located on the end of a boom. A special concrete pump transfers the mortar to the nozzle. As the pipe rotates, the boom moves throughout the length of the pipe evenly distributing mortar. Following the mortar application, the pipe rotation speed is increased to provide high compaction and surface smoothness.

#### Lining Specification

Cement adapted to final application

Sand is siliceous and free of organic matter

Clean mixing water

Sand/cement ratio of 1.0 - 1.2 per application

Dry specific weight of  $\geq 2,200 \text{ kg/m}^3$

Final appearance is smooth

Thickness from 6 - 25 mm

Standards Compliance

PRD's cement lining system products pipe complying with AWWA C 205, BS 534, and other specifications.

#### EPOXY SPRAY COATING AND LINING

Epoxy is one of the best materials for coating and lining. Epoxy coated pipe are used in a wide variety of applications, such as potable water pipelines (Service temp. max  $140^\circ \text{ F}$  ( $60^\circ \text{ C}$ )), casing, piling, and submarine lines.

To prevent internal corrosion, Epoxy lining is applied to pipes designed to convey and distribute dry gas, humid gas, kerosene and drinking, raw, industrial or waste water in addition to chemical products.

#### Epoxy Coating and Lining Process

The pipe is heated to eliminate humidity

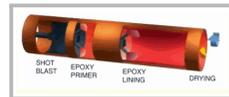
The pipe surface is shot-blasted to remove scale and rust

The Epoxy primer coat is applied to the pipe surface

Epoxy paint is applied to the pipe surface

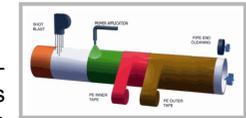
After application the pipe is

dried and cooled



#### POLYETHYLENE TAPE COATING&WRAPPING

PRD's Polyethylene Tape Coating Systems offer an alternative to PE extrusion coating. The system produces pipe with ciatings for conveying industrial, raw, waste and drinking water.



An Epoxy primer bonds the steel to the adhesive layer. The inner PE adhesive layer offers corrosion protection and tightly bonds to the outer PE coating. A final spiral wound layer of fully stabilized PE coating has the rugged mechanical properties to protect pipe during handling, storage, and pipeline construction.

#### PRD-Blast TM

Pacific Roller Die Company, Inc., world leader of large diameter pipe manufacturing technology, has the additional product line of PRD-Blast TM internal pipe blasting and coating systems. The self-propelled rotary stripping system is engineered to rapidly clean pipe interior surfaces down to the white metal without requiring personnel to enter the pipe.



"Like a white tornado in a pipe, PRD-Blast TM cleans pipe easier, faster, and more economically than any blast-pot operation," said Daniel D. Freitas, PRD Manufacturing Manager. "The system lowers labor and equipment costs as much as 75%, saves time with 360 degree rotary blasting, reduces hazards with remote controlled operation and eliminates human error commonly found with hand blasting."

- Saves time by rotary blast cleaning the full 360 degrees inside of pipe surfaces with self-propelled forward or reverse motion
- Lowers labor costs as much as 75% compared with manual blast-pot operations
- Eliminates inconsistencies commonly found with manual blasting
- Reduces hazards with remote controlled operation
- No down-time with PRD-Blast TM extremely reliable operation
- Adapts for various blast media and coating applications
- Adapts to blast pipes clean to white metal or required specifications in a wide range of diameters
- Applications to clean internal pipes, windmill tower fabrications, vessels, tanks, penstock, tanker trucks and metal containers with minimal set-up

PRD-Blast TM systems consist of a self-propelled cart, remote controls, rotary head, and rotary diffuser with two-three nozzles. As the self propelled PRD-Blast TM system travels through the metal pipe, rotating nozzles blast the surface clean. With the same working principle PRD offers machines for painting/coating applications.

PRD-Blast TM and painting systems are available for drive-through operation on pipes from 10 inches to 31+ feet (254 mm to 9 m) in diameter. Utilizing PRD s Lance Centering Tools, a lance system operation can be specified for smaller diameter pipes of 3.5 inches to 22 inches (90 mm to 560 mm).

tube.06.02.08

Hydrostatic tube testing

### HYDROSTATIC PIPE TESTING MACHINE (HPTM)

Having fully computerized controls, PRD Hydrostatic Pipe Testing Machines are suitable for pipe applications to meet any internationally known standards, including those of API and AWWA. Hydrostatic Pipe Testing Machines can be used with pipes produced by the electric resistance welding (ERW) process as well as pipes produced by the submerged arc welding (SAW) process.



The range covered with PRD HPTM's are:

Pipe Diameter to be Tested ½" (12.5 mm) to 120" (3048 mm) Pipe Length 4 meter to 20 meter Max. Applicable Test Pressure 210 Bar Max. End Load 3 000 Ton

Main HPTM components are:

Tension Beams Head Stock Tail Stock Water Fill, Pressure and Vent System Pipe Lifting and Positioning System Control Station

### OFF-LINE ULTRASONIC TEST SYSTEM

#### CONTENTS

1 - ULTRASONIC TEST EVALUATION METHOD

2 - OFF-LINE WELD TEST

3 - LASER SEAM TRACKING FOR OFF-LINE AND ON-LINE WELD TEST

1 - ULTRASONIC TEST EVALUATION METHOD

1.1. Weld Inspection :

The test is carried out according to the pulse-echo method for longitudinal weld defects and through-transmission method for transverse weld defects and also

for coupling and performance check of the probes. Angle beam probes are used for longitudinal and transverse weld defects.

1.1.1. Longitudinal Weld Defect :

Two angle beam probes are facing each other and operate in pulse-echo mode for defects and in a through transmission mode for coupling and performance check of the probes.

1.1.2. Transverse Weld Defect :

Two angle beam probes operate in through-transmission mode. The transmitting probe transmits the sound beam at an angle of 45 degree to the weld. If a transverse defect exists, the sound beam is reflected from there and received by the second probe facing the first one.

1.2. H.A.Z. Defect :

Laminar defects in Heat Affected Zone are detected by immersion straight beam probes. The immersion probes are coupled via water column. The probes operate in pulse-echo mode. The test is performed by means of evaluation between interface echo and first backwall echo. The possible time variation in water column is compensated by the echo start system.

1.3. Body Lamination :

Two or four twin crystal probes are used in pulse-echo mode for pipes to be inspected for laminations in base metal.

The probes are moved back and forward on pipe body between weld seams by the oscillating device. The oscillating device is placed after external S.A.W. station on runout of pipe mill. The coupling between probes and pipe surface is supplied by water gap. Lamination can be detected by evaluation gate to be positioned between interface echo and

first backwall echo or between first and second backwall echo.

### 2 - OFF-LINE WELD TEST

2.1. Test Principle :

The pipes are carried individually on pipe cart. The combination of axial movement of the pipe cart and circumferential turning of the pipe on pipe cart passes the pipes according to spiral angle of weld seam through the testing line.

The probes are lowered to the top of the pipe by means of sensor until reaching the set-up distance between pipe surface and probe mechanism.

The probes can be positioned on the end of pipe for alignment of the weld seam center to probe mechanism and receiving proper water coupling between pipe



surface and probes. Therefore, untested weld seam at the end of pipe will be around 100 - 200 mm.

## REAL TIME X-RAY INSPECTION SYSTEMS

### CONTENTS

#### 1. INTRODUCTION

#### 2. SYSTEM COMPONENTS

#### 3. TECHNICAL DETAILS OF THE SYSTEM COMPONENTS

#### 4. INITIAL ADJUSTMENT AND INSPECTION PROCESS

##### 1. INTRODUCTION

PRD Co. Inc. is a leader in design, manufacture and supply of turn-key real time x-ray systems for both longitudinal and spiral S.A.W. Pipes. PRD has great experience in integration of the components required by the system and also in field installation. The system can inspect longitudinal, circumferential and spiral weld seam of the pipes

with following ranges:

Pipe Diameter: 200 mm to 3000 mm

Pipe Length: 6 m to 16 m

Wall Thickness: max. 25 mm ( single wall technique )

##### 2. SYSTEM COMPONENTS

###### 2.1. Mechanical Parts

- X-Ray Tube Support Boom ( cantilever - height adjustable ) / Pipe Cart

Image Intensifier Tower ( height adjustable )

###### 2.2. X-Ray Components

High Voltage Generator

X-Ray Tube

X-Ray Control Unit

Cooling System

###### 2.3. Imaging System

Image Intensifier Tube

CCD Video Camera

Video Monitor

Digital Image Processor



Video Recorder/Printer

#### 2.4. Operator Control Desk

### 3. TECHNICAL DETAILS OF THE SYSTEM COMPONENTS

3.1. X-Ray Tube Support Boom is manufactured of tubular steel. The height of the

boom is adjusted for various pipe diameters manually at the operator control panel. The x-ray tube will be mounted at the end of the boom. The high voltage cable and cooling hoses will be connected from x- ray tube at the end of boom, through the

inside of the boom to the high voltage generator and cooling system located at the base of boom.

3.2. Pipe Cart carries the pipe from the pipe rack and moves along the rail to the test

position and returns the pipe to pipe rack again. Pipe cart provides linear movement

and rotation of the pipe. The combination of linear movement and rotation gives spiral movement to pipe to keep the weld position between x-ray and intensifier tubes correct during inspection.

## Paramount Die Company



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Stand Hall 10, B38



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Internationale Fachmessen  
www.wire.de / www.Tube.de



**PARAMOUNT DIE Company**

Founded in 1968 by two brothers, Douglas and Gil Sarver, Paramount Die is today one of the world's largest wire die companies and the leading wire die company servicing the ferrous Wire Industry. Long known as an industry innovator, Paramount has introduced several products which have become the wire industry standard. Paramount's ParaLoc Pressure system has contributed greatly to increasing drawing speeds and improving productivity in the wire industry and is today the most widely utilized pressure die system in the world. Paramount's exchangeable carbide drawing inserts have made mass production of wire dies possible and have led to both increasing wire die consistency and decreasing overall die cost. Today more than 70% of ferrous wire companies either utilize drawing inserts exclusively or utilize them in part of their production. With eye on the future, Paramount continues to reinvent its wire die manufacturing processes introducing automation and "light's out" capability to nearly every production process.

**Company Contacts**

Paramount Die Company

**Department/Name Address**

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**Product Overview**

Paramount Die Company

wire.02.03.02 Hard metal drawing dies  
.....  
wire.02.03.04 Polycrystalline drawing dies



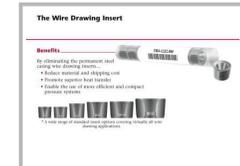
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Internationale Fachmessen  
www.wire.de / www.Tube.de

**Product Details**

Paramount Die Company

wire.02.03.02 Hard metal drawing dies

**Wire Drawing Inserts**



**PCC Energy Group Corp./Inc.**



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**About PCC Energy Group**

PCC Energy group offers a streamlined supply chain by coordinating the efforts of Wyman Gordon, Special Metals, Hackney Ladish, PCC Rollmet and PCC Klad. The Group provides products and the Power, Oil and Gas, Petrochemical and Nuclear markets worldwide.



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Internationale Fachmessen  
www.wire.de / www.Tube.de

### Exhibitor profile

PCC Energy Group Corp./Inc.

Number of employees > 5000

Business volume –

Export quota –

Founding year

Business segment Raw materials, tubes and accessories, Pipeline and OCTG Technology

### Company Contacts

PCC Energy Group Corp./Inc.

#### Department/Name Address

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### Product Overview

PCC Energy Group Corp./Inc.

tube.01.01.03.01 Duplex and nickel base alloy pipes and tubes

### Product Details

PCC Energy Group Corp./Inc.

tube.01.01.03.01 Duplex and nickel base alloy pipes and tubes

### Fittings



PCC Energy Group's highly regarded core commodity fittings are produced at both of its Hackney Ladish plant sites located at Enid, Oklahoma and Russellville, Arkansas. Both locations produce a broad range of products with the capability of producing materials utilizing A234-WPB carbon grade.



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Internationale Fachmessen  
www.wire.de / www.Tube.de

### Forgings



Extensive computer modeling and in-depth metallurgical expertise allow our engineers innovative range and exceptional capabilities in the design and production of critical forgings, including casings, pipe and fittings, BOP bodies, subsea components, pressure vessels and various HPHT products.

### Pipe and Tubing



The 35,000-ton press in Houston and the 30,000-ton press in Livingston give PCC Energy Group the largest and most comprehensive pipe extrusion capability in the world. Pipe and solid bar product can be extruded at the PCC Energy Group facilities in a wide selection of materials and sizes.

### Phenix Technologies Inc.



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www.wire.de / www.Tube.de



### High Voltage, High Current, High Power Test Equipment

PHENIX Technologies designs and manufactures electrical testing equipment for testing Transformers, Motors, Cables, Generators, Circuit Breakers, Reclosers, Insulation Materials, GIS/Switchgear, Utility Worker's Rubber Goods/Protective Gear. PHENIX Technologies offers a wide range of high voltage/high current/high power testing solutions with 40+ years of experience, and is ISO9001 quality certified.

Our 80,000-square-foot headquarters located in Maryland, U.S.A. is a modern manufacturing facility where all aspects of electrical and mechanical design, software design, and production are performed.

Additional sales offices are located in Basel, Switzerland and Taipei, Taiwan and a network of representatives are located across the U.S. and in more than 50 countries.

PHENIX Technologies has delivered test equipment to 110 countries and our Service and Calibration Department travels worldwide to assist our customers during and after test equipment installation to ensure optimum equipment performance and customer satisfaction.

#### Exhibitor profile

Phenix Technologies Inc.

Number of employees	100-499
Business volume	10-49 Mio US \$
Export quota	max. 50%
Founding year	1975
Business segment	Measuring and control technology, Test engineering, Specialist areas



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Internationale Fachmessen  
www.wire.de / www.Tube.de

#### Company Contacts

Phenix Technologies Inc.

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#### Product Overview

Phenix Technologies Inc.

wire.05.10	Quality assurance systems (incl. factory data acquisition)
wire.05.13	Measuring systems for electric cables
wire.06.01.01	Destructive material testing
wire.06.01.02	Non-destructive material testing
wire.06.03.01	Wire products and supplies
wire.06.03.04	Insulated Wire Cables
wire.06.03.05	Bare wire, rod and wire ropes
wire.06.05	Laboratory test equipment

#### Product Details

Phenix Technologies Inc.

wire.05.10	Quality assurance systems (incl. factory data acquisition)
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wire Düsseldorf - Tube Düsseldorf  
Internationale Fachmessen  
www.wire.de / www.Tube.de

### Motor Test Systems and Equipment

For over 40 years Phenix Technologies has established worldwide recognition as the leading manufacturer of Motor Test Systems. We have supplied more Motor Test Systems than all other manufacturers combined. Not only does our engineering expertise and manufacturing capabilities provide solutions for customers who may need a custom designed system for special requirements, Phenix Technologies continues to introduce new innovations and technology that leaves our competition behind. The Phenix Technologies team has manufactured and delivered the world's largest Motor Test Center and Core Loss Tester. Phenix Technologies offers a complete line of electric motor test systems for load and no-load testing of all types of AC and DC motors, traction motors, synchronous motors, induction motors, shunt-wound, compound-wound, and series-wound motors. We have test systems available for testing fractional up to 50,000 HP motors.



wire.06.03.01

Wire products and supplies

### Heat Cycling Test Sets

Phenix Technologies' manufactures Heat Cycling Test Sets for Power Cables. Perform type testing of a cable sample in accordance with applicable international standards. Various design options include: Output range of up to 7,500 Amps, Indoor/Outdoor units, Removable or closed core designs to facilitate ease in test setups, Manual or Automated control packages are available with custom programming for specific applications.



wire.06.05

Laboratory test equipment

### Testing Accessories

#### Discharge and Grounding Sticks

Discharge and grounding sticks are a vital part of high voltage safety practices. The sticks have been specifically designed for high voltage testing in the field or laboratory. Depending on the application, only the ground stick may be used or a discharge and ground stick may have to be used.



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### The Phenix Technologies Advantage:

Optimum safety features. Over 40 years experience and ISO 9001 Quality Certification ensures the highest in-house quality controls in both the design and manufacturing process. Superior reliability and versatility for years of extended service life. Longest Warranty in the industry.

### Pines Engineering



Address	29100 Lakeland Blvd. 44092 Wickliffe, Ohio USA
Phone	+1 440 2787200
Fax	+1 440 2787210
Internet address	www.pines-eng.com
E-Mail	info@pines-eng.com
Stand	Hall 06, A42



#### About Us

Pines, more than any other bending machine manufacturer, is globally renowned for the design, manufacture and supply of some of the world's finest tube bending and end forming technologies – for increasingly complex power generation, military, aviation and shipbuilding requirements.

In addition to these capabilities, a whole range of bend tooling and accessory options are also provided, as are comprehensive maintenance and service contracts, training and education programs and financial services. Pines also offers customers high quality bending machine rebuilds, refurbishment, upgrades and trade-ins.



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From its state-of-the-art manufacturing center in suburban Cleveland, Ohio, USA, Pines is committed to providing customers with technologically advanced bending systems.

Normal 0

false false false

EN-US X-NONE X-NONE

MicrosoftInternetExplorer4



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Internationale Fachmessen  
[www.wire.de](http://www.wire.de) / [www.Tube.de](http://www.Tube.de)

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mso-hansi-theme-font:minor-latin;}
```



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### Company Contacts

Pines Engineering

Department/Name	Address
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Kile Snyder	Pines USA-44092 Wickliffe, Ohio Phone: +1 440 2787200 Fax: +1 440 2787210 ksnyder@pinestech.com
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Jon Canfield	Pines USA-44092 Wickliffe, Ohio Phone: +1 303-8345359 jcanfield@pinestech.com
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### Product Overview

Pines Engineering

tube.01.07.06	Heat exchange and transfer
---------------	----------------------------

tube.02.03.01	Tube forming equipment
---------------	------------------------

tube.02.05.01	Forming, bending, twisting, fabricating, hydroforming
---------------	---

tube.02.05.04	Expanding, deburring, peeling, folding
---------------	--

tube.02.05.06	Drilling, turning, chamfering, pointing
---------------	---

tube.03.05	Tube processing and finishing equipment
------------	---

tube.04.03	Drawing (dies)
------------	----------------



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tube.04.04	Dies
------------	------

tube.07.08.02	Software for bending
---------------	----------------------

tube.07.09.04	Services for tube and pipe bending (induction or cold), cutting, fabricating
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tube.10.02.02	Profile bending machines
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### Product Details

Pines Engineering

tube.02.03.01	Tube forming equipment
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#### Pines Heavy Duty NC Pipe Bending Machines

Offering rugged dependability and high production of multiple bend parts, Pines NC and CNC benders are capable of fast, repeatable bending of tube and pipe up to 14" O.D. These powerful automatic precision benders offer fast set-up and change-over advantages along with an advanced level of programming to deliver high performance and flexibility in bending operations.



The Pines line of Heavy Duty Bending machines provide tested, trusted, and tough, proven on-the-job performance in manufacturing plants around the world.

#### Portable Electric Table Top Benders

CNC 10 Tube Coaxial Cable Bender:

6" Color touch screen with PLC control

Network integration

NEW Work Station Software

Integrated tool storage drawers

Each axis has 10 independent speed settings

Retrofit packages available to convert from Digital control to PLC control

CMM interface capability





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tube.02.05.01

Forming, bending, twisting, fabricating, hydroforming

### Heavy Duty CNC Pipe Bending Machines

To meet the demand of the modern pipe bender, Pines has designed a new range of CNC HD pipe benders. Pines is the leader in rugged and reliable machinery. The new designs continue these vital benchmarks such as power, precision, speed and improved the performance to provide users with enhanced capabilities to match the demands of the 21st century. Now, Pines has extended the choice specifications and options while improving precision and reliability.



### Plan-E-Tech Industries, Inc.

Address	5809 Center Road 44280 Valley City, OH USA
Phone	+1 330 2257255
Fax	+1 330 2257577
Internet address	<a href="http://www.plan-e-tech.com">www.plan-e-tech.com</a>
E-Mail	<a href="mailto:sales@plan-e-tech.com">sales@plan-e-tech.com</a>
Stand	Hall 15, E32

#### About Us



A 100% employee owned specialty shop, focused on manufacturing new planetary nail thread rolling dies and reworking worn dies for Prutton, Roll-Max, Reed, Karfotek, K. Ticho, Saspi, Hief and Ruja and most other nail thread rolling machines. We are one of the largest suppliers to

nail manufacturers in the country, and service customers worldwide.



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For over two decades we have been manufacturing and supplying Cylindrical or Circular thread rolling dies to the bolt manufacturing industry. Our Cylindrical Thread Rolling Dies are made from a number of different tool steels most commonly D-2 & M-42 with other materials available upon request. We make dies for various machines including but not limited to Tesker, Ort, Reed, Grob, Izpe and Kinefac. We also regrind Cylindrical Thread Roll Dies giving your used dies new life.

Located in rural Valley City, Ohio, convenient to 1-71 and Cleveland, PLAN-E-TECH INC. is easily accessible for shipping and deliveries

#### Exhibitor profile

Plan-E-Tech Industries, Inc.

Number of employees	1-19
Business volume	1-9 Mio US \$
Export quota	max. 75%
Founding year	1984
Business segment	Tube manufacturing machinery



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www.wire.de / www.Tube.de

### Company Contacts

Plan-E-Tech Industries, Inc.

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### Company News

Plan-E-Tech Industries, Inc.

#### 03/07/2016 New Capabilities

In 2016 we have made a major investment in new Machinery and we are now able to produce a number of new thread rolling products. These include Thru Feed cylindrical dies, Planetary dies for bolts, and special thread forms for both Thru Feed and Infeed cylindrical dies.

### Product Overview

Plan-E-Tech Industries, Inc.

wire.01.07.10 Rolling (threads)



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### Precision Process, Inc.

Address	2111 Liberty Drive 14304 Niagara, NY USA
Phone	+1 800 7073433
Fax	+1 716 2367802
Internet address	www.precisionprocess.com
E-Mail	sales@precisionprocess.com
Stand	Hall 11, H51



#### Precision Process Equipment

Precision Process Equipment is a leading supplier of Wire Electroplating machinery. Our equipment maximizes production efficiently, minimizes precious metals usage, and operates dependably in production environments. PPE provides complete tailored solutions— cleaning and plating, material handling, and chemical process development.

### Exhibitor profile

Precision Process, Inc.

Number of employees	100-499
Business volume	10-49 Mio US \$
Export quota	max. 25%
Founding year	1996
Business segment	Raw materials, tubes and accessories



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### Company Contacts

Precision Process, Inc.

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David Miller	Phone: +1 (724) 822-4167 dmiller@precisionprocess.com

### Product Overview

Precision Process, Inc.

wire.01.04.08 Metal coating (chemical, electroplating etc.)

### Product Details

Precision Process, Inc.

wire.01.04.08 Metal coating (chemical, electroplating etc.)

### Automated Hoist Line

Hoist systems for your specific needs

Precision Process designs and manufactures automatic and manual hoist systems.

Controlling your hoist system:

Fully automated control of hoist systems is provided by our Automation 8000 software suite.

Automation integrates seamlessly with PLC controls from all manufacturers, and includes an integrated HMI interface tailored to the requirements of the machine and customer.

Alternatively, Automation can be used with popular HMIs like Wonderware, WinCC, and RSView.

For manual systems, local and/or remote controls are available for hoists and process equipment.

Positioning your hoist system:



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Hoist positioning is accomplished through rotary optical encoders or laser distance meters.

Optical encoders are a time-tested traditional method of hoist positioning.

Laser distance meters provide many advantages, including non-contact measurement, robust analog or digital signaling, elimination of troublesome cabling, and absolute positioning – no homing required.

Optionally, redundant station position flags are available for the highest level of safety.

Protecting your hoist system:

Precision Process offers lift and body assemblies in powder-coated steel or heavy gauge stainless steel for maximum corrosion resistance.

Moving parts can be sealed or enclosed to reduce particulates in clean room environments.

Environmentally enclosed machines prevent fumes from reaching operators or contaminating room air

Integrated tank rim exhaust for stringent cleanliness requirements and reduction of corrosive fumes reaching hoists and framework

### High Speed Wire

Electroplating Equipment for the Wire Industry

Precision Process manufactures cost effective equipment for cleaning, etching, and electroplating high speed wiring wire. We offer single or multi-strand, high-speed chemical processing for the industry's common range of gauges. Our electroplating equipment for the wire industry provides tension and speed control as well as non-contact inspection gauging for operator feedback.



Experience makes the difference

Precision Process has extensive experience in developing electroplating equipment for the wire industry partially through its acquisition of the Carolinch Company. We provide turnkey wire electroplating equipment with full lifecycle support: from design and engineering through manufacturing, installation, and service. Packages include PLC with touchscreen, traverse winders, remote controlled rectifiers, full exhaust ventilation, and removable door panels. Precision Process specializes in designing changes to existing wire electroplating equipment that reduce production costs and provide more efficient use of materials.



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For wire electroplating, Precision Process provides:  
Turnkey wire electroplating equipment at competitive prices  
Quick to build electroplating equipment that reduces lead times  
Electroplating equipment for the common range of gauges in the industry  
Single or multi-strand, high speed electrochemical processing

Systems with tension and speed control and non-contact inspection gauging, to provide operator feedback of processed wire diameter

**Manual Wet Benches**

Manual Excellite wafer plating tools

Ideal for a lab setting, the Excellite series of wafer plating tools features a patented plating cell configuration that uses a rotating cathode, along with reciprocating anodes (9000 series) or carousel assembly (8000 series).

During plating, as the wafer rotates around the anode, the center portion of the wafer receives greater exposure to the anodes. The cumulative anode center-line path is traced relative to a wafer when the system is operated at a speed ratio of seven anode cycles per nine rotations of the fixture wheel.



**Primetals Technologies LLC**

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Fax	+1 724 554-7013
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E-Mail	contact@primetals.com
Stand	Hall 06, C29-07



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**THE NEW GLOBAL AUTHORITY IN METALS EXCELLENCE**

A part of Primetals Technologies' broad portfolio is dedicated to serving the needs of the tube and pipe industry. The company's Furnace Technologies team offers the F&D line of quench and temper furnaces for tubes/bars and billets, rotary and roller hearth furnaces, car furnaces, wire annealing furnaces, and motor lamination lines. In addition, the portfolio includes the FCE line of carbon and stainless steel strip furnaces, plate furnaces and powder lines.

Headquartered in the United Kingdom, with offices and service centers in 15 U.S. locations, Primetals Technologies is a worldwide leading engineering, plant-building and lifecycle services partner for the metals industry. The company offers a complete technology, product and service portfolio that includes integrated electrics, automation and environmental solutions. This covers every step of the iron and steel production chain, extending from the raw materials to the finished product – in addition to the latest rolling solutions for the nonferrous metals sector.

Primetals Technologies is a joint venture of Mitsubishi Heavy Industries (MHI) and Siemens. Mitsubishi-Hitachi Metals Machinery (MHMM) – an MHI consolidated group company with equity participation by Hitachi, Ltd. and IHI Corporation – holds a 51% stake and Siemens a 49% stake in the company. The company employs around 9,000 employees worldwide.

For more information, visit [www.primetals.com](http://www.primetals.com).



**Exhibitor profile**

Primetals Technologies LLC

Number of employees	> 5000
Business volume	-
Export quota	-
Founding year	2015
Business segment	Tube manufacturing machinery, Process technology tools and auxiliaries

**Company Contacts**

Primetals Technologies LLC

Department/Name	Address
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**Company News**

Primetals Technologies LLC

**03/02/2016 Primetals Technologies receives FAC for heat treatment plant at Borusan Mannesmann in Texas**

February 11, 2015

Plant is used to quench and temper OCTG grades

Primetals Technologies received the final acceptance certificate from Borusan Mannesmann Pipe U.S. for a heat treatment plant installed in the company's new ERW (Electric Resistance Welded) pipe mill in Baytown, Texas, USA. The equipment is used to quench and temper oil country tubular grades (OCTG), enabling Borusan Mannesmann to produce a wide range of high quality products for the highly competitive OCTG market. The Baytown facility is a subsidiary of the Turkish steel pipe producer Borusan Mannesmann Boru and is the first Turkish owned plant in the United States.



Primetals Technologies supplied FCE – F&D Furnace Technologies quenching and tempering equipment, including a direct-fired, walking beam, austenitizing furnace; a high pressure, water spray quench system; a convective, walking beam, tempering furnace; all associated material handling equipment; all necessary instrumentation; and PLC control system. The services included engineering, delivering, installing, and commissioning for the heat treatment plant.

Borusan Mannesmann is among the leading steel pipe manufacturers in Europe and in the world with one million tons of production capacity, and now has a major facility in the U.S. It provides many products such as gas pipes, water pipes, general-purpose pipes, boiler pipes, construction pipes and profiles, industrial pipes and profiles, large diameter pipes used in infrastructure projects such as water, gas, and oil transmission lines, and also concrete pump pipes, oil pipes and sprinkler pipes. While supplying products for the fields of energy, construction, automotive, installation, white goods and furniture manufacturing, it also succeeds in various major national and international water, oil, and gas pipeline projects.

**Product Overview**

Primetals Technologies LLC

tube.02.04.02 Pre- and re-heating systems

**Product Details**

Primetals Technologies LLC

tube.02.04.02 Pre- and re-heating systems

**Bright Annealing Lines (BAL)**

Stainless, special alloys, copper and brass

Strip and sheet

Thickness: 0.012 to 5 mm Width: 150 to 1525 mm

Horizontal and Vertical

Atmosphere up to 100% Hydrogen

Direct heating with molybdenum elements

Convection heating for low emissivity products

Convection cooling

Full line supply





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### CGL and CAL

Continuous galvanizing lines (CGL)

Automotive Galvanize Galvanneal Aluminize AISi Construction grade Galvanize Galvalume ZnAl Vertical & horizontal

Continuous annealing lines (CAL)

Sheet Tin plate Combination sheet & tin



### Modernizations

Custom solutions to extend life of past investments

Adapt for newer, higher demand steel grades and products Fast ROI due to short lead times Improved throughput and reliability Increased cooling rates Improved strip tracking and stability Decreased buckling



### Plate Heat Treatment Lines

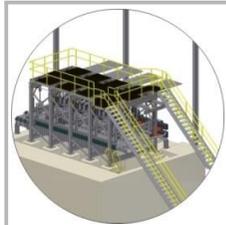
Roller hearth furnaces for

Austenitizing (hardening) Normalizing Tempering

Roller Pressure Quench

Modular Design

Over 30 world-wide references



### Tube Quench & Temper

Hardening & Tempering for OCTG

Walking beam austenitizing furnace Continuous water quench Walking beam convective tempering Cooling tables Material handling equipment



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www.wire.de / www.Tube.de

### Quaker Chemical Corp.



Address	One Quaker Park 901 E. Hector Street 19428 Conshohocken, PA USA
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Stand	Hall 05, F15



### Quaker Chemical Corporation

Since 1918, Quaker has been establishing and maintaining long-term relationships with leading customers in primary metals, steel, metalworking, aluminum, automotive, mining, aerospace, tube and pipe, cans, and other basic process industries all over the world.

We are the experts in the development, production, and application of chemical specialties, process fluids, lubricants, and coatings for the manufacturing industry. We enable our customers not only to face and manage these challenges, but to positively thrive in the midst of them by finding opportunities to be more efficient - and ultimately more profitable. It's our obsession. And we achieve this through our intimate knowledge of the industries we serve and each one of the moving parts that come with it.

Quaker is the only chemical specialty supplier to the Tube and Pipe Industry to offer system-wide expertise, as well as a comprehensive portfolio of processing fluids and coatings. The Quaker team of experts provides process expertise and custom-formulated process fluids and coatings for all production operations in welded and seamless tube and pipe mills worldwide. We have manufacturing and R&D facilities in 12 countries, and have technical support staff on the ground



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in every industrialized region of the world, to support local business.

We offer fluids solutions for the entire tube and pipe process with our fully-integrated "front-to-back" product line.

Highlighted products include:

Metal removal fluids - QUAKERCOOL® is a line of water-soluble, coolants including soluble oils, semi-synthetics, true solution synthetics, and emulsion synthetics that provide a wide range of performance capabilities to meet industrial requirements in metal forming, cutting, and threading operations.

Pipe coatings - QUAKERCOAT®: is a line of low-to-zero VOC water-based and zero VOC UV coatings, and high-solids based varnishes.

In addition, Quaker offers a comprehensive collection of process fluids for all tube and pipe processing needs, such as fire-resistant and specialty hydraulic fluids, fire-resistant greases, hot mill rolling lubricants, hydrostatic testing fluids, maintenance and production cleaners, and metal forming and drawing lubricants.

Products alone don't solve problems. People do. At the core of everything Quaker does is a genuine passion for helping out customer' businesses grow ever stronger by mkaing their processes more efficient, sustainable, and competitive. This is what defines our brand and what makes us stand our from our competitors. At Quaker, we know It's what's inside that counts.

Quaker's products, technical solutions, and chemical management services enhance customers' processes, improve product quality, and lower costs. Our headquarters is located near Philadelphia in Conshohocken, Pennsylvania, USA, and Uithoorn, Netherlands.



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#### Exhibitor profile

Quaker Chemical Corp.

Number of employees	1000-4999
Business volume	> 500 Mio US \$
Export quota	–
Founding year	1918
Business segment	Process technology tools and auxiliaries, Specialist areas

#### Company Contacts

Quaker Chemical Corp.

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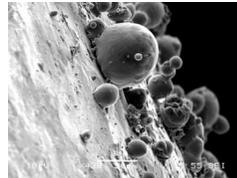
**Company News**

Quaker Chemical Corp.

**02/26/2016 Novel Approach to Identify Tube & Pipe Corrosion Problems**

Quaker Chemical utilizes analytical technology to detect corrosion from a microscopic perspective

CONSHOHOCKEN, PA (August 11, 2015) – Corrosion protection provided by metalworking fluids remains a top concern during the manufacturing of tubular goods. Since pipe products are vulnerable to multiple conditions that can lead to oxidation, corrosion can unknowingly occur in production or during storage. Consequently, the pipe producer is at risk for significant financial losses in non-conforming products, scrap, and/or rework costs.



Challenged to investigate the sources of pipe corrosion, Quaker Chemical Corporation (NYSE: KWR, “Quaker”), the only “front to back” chemical specialty supplier to the Tube and Pipe industry, addressed the issue with Scanning Electron Microscope (SEM) and Energy Dispersive Spectroscopy (EDS) technology. Quaker’s research efforts have resulted in a methodology to pinpoint corrosion through visual and chemical composition data.

The findings from the SEM/EDS give clues on how to rethink the manufacturing process and how to adjust the metalworking fluids to tackle rust prevention. The SEM imagery produces characteristic visuals, which allude to corrosion stemming from causes such as corrosive ions in trapped moisture, surface contamination, odd elements in the scale, and others. The EDS analysis is capable of generating a spectrum and even a map of the present levels of chemical elements over the surface. Depending on the atomic and weight percentages, the corrosion trigger can be determined and compared to analysis of surfaces from reference conditions. Often, the issues can be resolved by a tweak in the process fluid properties to inhibit or eliminate the problems upstream.

Quaker’s studies in SEM/EDS technology is a helpful tool in understanding corrosion phenomena. “When performed carefully and with proper interpretation of the results, advanced surface analyses with this tool can largely contribute to solving corrosion issues in tube and pipe operations,” commented Karl Kunkel, North American Industry Business Director – Metalworking.

Visit <http://www.quakerchem.com/expert-experience/industry-expertise/tube-and-pipe/> for additional information and the full fluid solution offerings for Tube & Pipe applications.

About Quaker Chemical Corporation:

Quaker Chemical is a leading global provider of process fluids, chemical specialties, and technical expertise

to a wide range of industries, including steel, aluminum, automotive, mining, aerospace, tube and pipe,

cans, and others. For nearly 100 years, Quaker has helped customers around the world achieve production

efficiency, improve product quality, and lower costs through a combination of innovative technology, process

knowledge, and customized services. Headquartered in Conshohocken, Pennsylvania USA, Quaker serves

businesses worldwide with a network of dedicated and experienced professionals whose mission is to make

a difference. Visit [quakerchem.com](http://quakerchem.com) to learn more.

**Product Overview**

Quaker Chemical Corp.

tube.04.08.01	Lubricants
.....	
tube.04.08.02	Drawing and rolling aids
.....	
tube.04.08.03	Auxiliary chemicals
.....	
tube.04.11	Minimum lubrication for tube extrusion
.....	
tube.07.09.05	Coating services
.....	
tube.09.03	Surface coating
.....	
tube.09.04	Corrosion prevention systems



## Product Details

Quaker Chemical Corp.

tube.04.08.01

Lubricants

### QUAKERCUT

The QUAKERCUT series are extra high performance neat cutting oils based on advanced ester technology from renewable raw materials. Features include:

- Shearing and sawing applications
- Good lubrication
- Extends tool life

### QUAKERDRAW

High performance metal forming and metal forging lubricants formulated without chlorine and have been engineered to be used for both regular and alloy-coated tooling. QUAKERDRAW® provides benefits that include superior lubrication to increase die and punch life, excellent corrosion protection and high film strength additives to reduce scratching and galling on parts and dies. It also can be easily cleaned with solvent or alkaline cleaners.

tube.04.08.02

Drawing and rolling aids

### QUAKEROL

State of the art hot rolling steel lubricants and MIDAS application equipment to provide roll protection, defect elimination and energy savings for industries ranging from automotive to construction. New technologies include synthetic cationics and water based long product compounds. Reduces mill loads, improves back-up and work roll life, and increases quality in the hot rolling of all stainless and carbon steel substrates; using all known roll chemistries in sheet, shape and long product applications.

tube.04.08.03

Auxiliary chemicals

### QUAKERCLEAN

Alkaline cleaners available in liquid and powder form. Used to remove soils from metal substrates normally found in the steel and metalworking industries; cleans ferrous & non-ferrous surfaces. Compatible for use with other Quaker metalworking fluids and other corrosion preventives.

Maintenance Cleaners Designed to clean shop floors and other plant equipment, such as machining and grinding apparatus and forming dies.

Process Cleaners Cleaners that provide excellent cleaning performance on ferrous surfaces only. Used extensively in the Tube and Pipe Industry to clean strip and pipe prior to galvanizing. This product will also effectively remove oil

and grease from automotive and locomotive parts. Its unique chemical balance provides very efficient penetrating, loosening and lifting of various soils from the surface. It can be used in both spray and immersion cleaning systems.

Dual Purpose Cleaners and Metal Preservatives Dual purpose, mild alkaline liquids that simultaneously clean and protect metal surfaces in a single processing step. Designed for ferrous (steel and cast iron) alloys and non-ferrous (aluminum) alloys. Rapid drying cleaners for vacuum dry applications are also available.

Sump and Maintenance Cleaners Formulated for central systems, single machines, or premix tanks filled with machining and grinding fluids. This product is designed to penetrate, loosen, lift, and emulsify a variety of tenacious soils.

### QUAKERTEK

Aluminum Complex Greases – QUAKERTEK™ AX SERIES Effective when maximum performance and water resistance are required, and water washout or water spray off is a concern. Provides maximum performance for bearings that service the blast furnace, basic oxygen furnace, coke making, caster and hot mill as well as other applications, and is fortified with extreme pressure additives.

Lithium Complex Greases – QUAKERTEK™ LX SERIES Extremely effective water resistance, especially in areas where water washout is a major concern, and performs well at high temperatures with a high dropping-point of 500°F: cold mill, temper mill, pickle line, coating lines and mobile equipment.

Grease Calcium Sulfonates – QUAKERTEK™ CS SERIES Exceptional lubricity, excellent water resistance, thermal stability and rust protection with mechanical stability that surpasses conventional greases, making it ideal for use in high-load applications. Contains no heavy metals and is recommended for any application where good lubricity, mechanical and thermal stability, and rust protection are required, especially under wet conditions, including: casting, blast and basic oxygen furnace, melt shop, hot mill, cold mill and pickle oil line.

Polyurea Greases – QUAKERTEK™ UX SERIES High dropping point greases are formulated to provide outstanding lubrication in high temperature applications and can replace both lithium and lithium complex greases in motor bearings, extending motor life and reducing noise, and also coke making, casting, basic oxygen furnace, and other extreme temperature applications.

### QUINTOLUBRIC

Synthetic Water-Free Fire-Resistant Hydraulic Fluids (HFD-U) – QUINTOLUBRIC® 888 SERIES

Designed to replace anti-wear, mineral oil-based hydraulic fluids used in applications where fire hazards exist. These fire-resistant hydraulic fluids can also be



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used in environmentally sensitive hydraulic applications without compromising the overall hydraulic system operation.

The QUINTOLUBRIC® 888 SERIES (888-46 and 888-68) offers benefits that feature global formulation, environmental friendliness, excellent shear stability and best-in-class oxidation stability. For optimal performance, these hydraulic fluids do not contain water, mineral oil or phosphate ester but instead are derived from high quality, synthetic organic esters and carefully selected additives. Both formulas provide fire-resistance, premium lubrication and superb anti-wear properties.

Applications include: Seamless Tube & Pipe: Casting / rotary furnace / hot rolling lines / heat treating

High Water Content Fire-Resistant Hydraulic Fluids (HFA) – QUINTOLUBRIC® 807 SERIES

Designed for use in water hydraulic systems with reciprocating piston pumps. Provides effective protection against rust and micro-organism growth has a strong affinity for metal, and provides effective boundary lubrication between sliding steel surfaces.

Water Glycol Fire-Resistant Hydraulic Fluids (HFC) – QUINTOLUBRIC® 702-46 RD

Designed to provide optimum performance in hydraulic systems where fire-resistant fluids are required. It contains enough water to prevent ignition that could occur in hydraulic systems operating under high pressure through sudden line ruptures or fluid contact with a high-temperature source. Applications include slab caster slide gates and casting machines, hot mill roll force and roll balance hydraulics, pickle line and welders, and annealing.

QUINTOLUBRIC® 702-46 RD water glycol hydraulic fluids feature superior liquid and vapor phase corrosion protection, a high viscosity index, excellent shear stability and superior chemical thermal and hydrolytic stability. The fluid's formula is compounded with safe additives to provide lubricity, corrosion protection and safety parameters. This fluid is compatible with most high quality water glycol fluids making converting easy.

#### QUINTOPLEX

Biodegradable, fire-resistant grease designed to replace extreme pressure, mineral oil-based greases in applications with fire hazards, or in environmentally sensitive bearing applications.

#### RINSE AID

Aqueous alkaline, or near-neutral solutions. Metalworking fluids used to enhance cleaning efficiency, corrosion protection of metals, sheeting out and drain-



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ing of water rinses and foam control of cleaner solutions. They may be used as a final step in a cleaning process to gain improved metal cleaning and rust protection.

Featured RINSE AID® products include:

Rinse Water Additives Provides improved sheeting out and draining of water rinses in multi-stage operations of metal cleaning. It can provide benefits such as a water break free surface and effectiveness at low concentrations.

Pickle Rinse Additives Stain preventative additives for rinse systems after hydrochloric and sulfuric acid pickling operations. It is an acidic product, which minimizes the formation of iron hydroxides on the strip surface during line stops and collection in the rinse tanks.

Multi-Purpose In-Plant Additives RINSE AID 81 is a liquid alkaline, multi-purpose product formulated to be used as a corrosion preventive rinse, a mild alkaline cleaner, or as a cleaner bath additive for increased, short-term metal cleaning power. It is designed to be used in spray or immersion processes and, with its low-foam characteristics, can be operated over a wide range of temperatures.

tube.04.11

Minimum lubrication for tube extrusion

#### QUAKERCOOL

Water-soluble, metal removal fluids containing soluble oils, semi-synthetics and true solution synthetics. Provides a wide range of performance capabilities to meet industrial requirements in machining operations. Used in multiple industrial applications such as drilling, milling, tapping and reaming.

tube.07.09.05

Coating services

#### QUAKERCOAT

Aqueous and solvent-based pipe coatings specifically developed to protect metal surfaces from corrosion; can be applied using spray, dip, brush or electrostatic techniques.

Featured QUAKERCOAT® pipe coating products include:

100% UV Curing, Tube and Pipe Permanent Protective Coatings High-gloss 100% UV curing, permanent protective coating intended for use as a corrosion inhibiting coating on metal tube and pipe surfaces. Benefits include good hardness, good impact resistance, superior adhesion, and instant curing and corrosion protection. QUAKERCOAT® 036 complies with current environmental regulations on volatile solvent contents for paints and varnishes as a zero-VOC coating. This product is ready to use, saving you time and effort!

Tube and Pipe Water-based Protective Coatings Water-based protective coating intended to prevent corrosion on metal surfaces, particularly on the outer sur-



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faces of tubes and pipes. **QUAKERCOAT®** gives you excellent slip and gloss development, excellent outdoor protection, excellent adhesion properties and a fast dry coating. Additionally, as a cured film, this coating has very good abrasion resistance and chemical resistance.

Water-Based Air Drying, Permanent Protective Primers A premium option for water-based, air curing, permanent protective primer for metal tubes and pipe surfaces. This fast-drying black liquid has a low VOC, excellent corrosion protection, high solids for better spray efficiency and recoatable with water based acrylic varnishes.

tube.09.03

Surface coating

### QUAKERCOAT

Aqueous and solvent-based pipe coatings specifically developed to protect metal surfaces from corrosion; can be applied using spray, dip, brush or electrostatic techniques.

Featured **QUAKERCOAT®** pipe coating products include:

100% UV Curing, Tube and Pipe Permanent Protective Coatings High-gloss 100% UV curing, permanent protective coating intended for use as a corrosion inhibiting coating on metal tube and pipe surfaces. Benefits include good hardness, good impact resistance, superior adhesion, and instant curing and corrosion protection. **QUAKERCOAT® 036** complies with current environmental regulations on volatile solvent contents for paints and varnishes as a zero-VOC coating. This product is ready to use, saving you time and effort!

Tube and Pipe Water-based Protective Coatings Water-based protective coating intended to prevent corrosion on metal surfaces, particularly on the outer surfaces of tubes and pipes. **QUAKERCOAT®** gives you excellent slip and gloss development, excellent outdoor protection, excellent adhesion properties and a fast dry coating. Additionally, as a cured film, this coating has very good abrasion resistance and chemical resistance.

Water-Based Air Drying, Permanent Protective Primers A premium option for water-based, air curing, permanent protective primer for metal tubes and pipe surfaces. This fast-drying black liquid has a low VOC, excellent corrosion protection, high solids for better spray efficiency and recoatable with water based acrylic varnishes.

tube.09.04

Corrosion prevention systems

### FERROCOTE

Temporary or permanent corrosion preventives formulated to be readily removed through conventional alkaline cleaning or degreasing procedures. Specifically



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developed to protect metal surfaces from corrosion for up to one year; they can be applied using spray, dip, brush or electrostatic techniques

## RAD-CON Inc.



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### Company description



Celebrating over 40 years of innovative bell-type batch annealing furnace designs, **RAD-CON, Inc.** (Cleveland, OH USA) engineers, manufactures, installs, and supports high-capacity, robust systems to the wire and wire-rod industry. **RAD-CON** established itself as the technology leader by pioneering innovations in convection design, atmosphere analysis and temperature control of bell annealing equipment.

Efficient performance of the system's convection flow is critically important to the end-quality of the annealed material. **RAD-CON's** 100% Hydrogen Super-High Convection (H2SHC)(TM) system utilizes the most advanced fan designs combined with a 100% hydrogen atmosphere, resulting in greater temperature uniformity throughout the charge, low utility costs, and clean, decarb-free product every cycle. Today's control technology allows for ease of operation and maintenance of required advanced safety systems for 100% hydrogen, with redundant safety elements to eliminate operator error.



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RAD-CON continues to change the industry with its development of the AC/APEX atmosphere control system. Coupling gas stream analysis with closed-loop process control improves the surface quality of the charge while minimizing the amount of atmosphere gas required.

Specializing in annealing systems that produce spheroidized Cold Heading Quality (CHQ) wire for the fastener industry, RAD-CON's experience also encompasses ferrous and non-ferrous applications in the agricultural, electrical, construction, spring, industrial, and communications industries. With designs derived in direct response to customers' needs, it is easy to see why RAD-CON has earned high praise and a well-deserved reputation for excellence worldwide.

**Company Contacts**

RAD-CON Inc.

Department/Name	Address
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**Product Overview**

RAD-CON Inc.

tube.02.04.04	Annealing furnaces (batches and continuous furnaces)
wire.01.04.02	Annealing without inert gas (furnaces)
wire.01.04.03	Annealing with inert gas (furnaces)



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**Product Details**

RAD-CON Inc.

tube.02.04.04	Annealing furnaces (batches and continuous furnaces)
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**Batch Annealing Furnace for Tubes**



Bright Annealing of tubes in straight lengths or bundles, ferrous or non-ferrous, spheroidize or recrystallize anneal process, in high convection furnace. H2SHC™ system provides high-pressure convection to produce uniform mechanical properties necessary for the manufacture of high quality tubes. Proportional control system for stable thermal cycle that is a key to achieving 90%-100% spheroidization—which leads greater die life and better flow during the cold forming process. System uses a 100% hydrogen protective atmosphere along with patented AC/APEX™ control system to ensure surface quality free of decarburization—another important element in the production of ferrous tubes.

Convection Bell-type Annealing Furnace

Protective Atmosphere: 100% Hydrogen (Nitrogen also available)

Spheroidize or Recrystallize Annealing of Tubes

Quality Surface, Bright, Clean & Decarb-Free

wire.01.04.02	Annealing without inert gas (furnaces)
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**Annealing Furnace for Aluminum Cables**



Convection type furnace designed to drive-in large reels of aluminum cable for in-process annealing step. Excellent for high-production cable manufacturing of 8000 series aluminum when in-line annealing is not practical.

RAD-CON has developed a furnace specifically designed for the annealing of aluminum wire for making cables. The drive-in loading system works well in a facility that is handling reels with fork trucks. Rapid heating and material uniformity required for the annealing process are achieved with RAD-CON's Super-High Convection™ system. Using high-flow fans in conjunction with radiant-heated plenum, the convection flow has been carefully designed to surround the reels, ensuring even heating and excellent quality.

Drive-in Type, Box Furnace High Convection Design Automatic Cooling



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wire.01.04.03

Annealing with inert gas (furnaces)

### Annealing Furnace for Cold-Heading Quality wire (CHQ)

Spheroidize Anneal wire and wire rod, medium-carbon and alloy steels, to cold-heading quality (CHQ) specifications. H2SHC™ system provides high-pressure convection to produce uniform mechanical properties necessary for the manufacture of high quality fasteners. Proportional control system for stable thermal cycle that is a key to achieving 90%-100% spheroidization—which leads greater die life and better flow during the cold forming process. System uses a 100% hydrogen protective atmosphere along with patented AC/APEX™ control system to ensure surface quality free of decarburization—another important element in the production of CHQ wires.



Convection Bell-type Annealing Furnace Protective Atmosphere: 100% Hydrogen Spheroidize Annealing (SA) of Hot-Rolled Wire Rod Quality Surface, Clean & Decarb-Free

### Annealing Furnace for Copper Wire

Obtain bright finish and excellent annealed properties with high convection bell-type furnace.

Convection Bell-Type Annealing Furnace Protective Atmosphere: Nitrogen or Hydrogen Bright Finish



### Annealing Furnace for Shaped Wire

Obtain bright finish and excellent annealed properties with high convection bell-type furnace.

Convection Bell-Type Annealing Furnace Protective Atmosphere: 100% Hydrogen Bright Finish



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### Atmosphere Co-Generator

Atmosphere Co-Generator manufactures annealing protective atmosphere and steam in one unit.

Generates Rich Atmosphere Excellent for Annealing Provides Steam, typically applied to acid pickling operation Saves Energy Avoids Nitrogen Costs



### REELEX Packaging Solutions, Inc.

Address 39 Jon Barrett Road  
12563 Patterson, NY  
USA

Phone

Fax

Internet address www.reelex.com

E-Mail sales@reelex.com

Stand Hall 09, F06-1



### About REELEX Packaging Solutions, Inc.

#### Company Overview

REELEX Packaging Solutions, Inc. (formerly Windings, Inc.) develops, licenses and supports the proprietary REELEX® method of coiling and packaging wire, cable, fiber optics, tubing and other filamentary products. This coiling technology creates a self-supporting figure-eight wind that allows the product to dispense from the inside-out without rotation, twists, tangles or kinks.

REELEX Packaging Solutions manufactures and supplies all necessary winding and ancillary equipment to create REELEX coils, as well as supplying packaging



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materials, worldwide service, and support.

There are over 100 REELEX licensees operating in over 140 manufacturing plants worldwide, with REELEX becoming the standard package for most telecommunications cable constructions as well as several other types of wire, cable and fiber optic products.

The Leader in Innovative Packaging

REELEX has developed some of the most innovative packaging options available to the wire and cable industry, including the new ProFlex™ shrink package and EcoCore™ - an environmentally-friendly, next-generation cardboard box package.

REELEX also has created specialty packaging concepts and machinery for a wide range of products including conduit, fiber optics, tubing and more.

**Company Contacts**

REELEX Packaging Solutions, Inc.

**Department/Name      Address**

.....  
 Timothy Copp              REELEX Packaging Solutions, Inc.  
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    Phone: 8454954141  
    timcopp@reelex.com

**Product Overview**

REELEX Packaging Solutions, Inc.

wire.01.06.01              Coiling, winding



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**Product Details**

REELEX Packaging Solutions, Inc.

wire.01.06.01

Coiling, winding

**D-1500 High-Speed REELEX Coiler**



The D-1500 is a dual-spindle REELEX coiling machine designed for either rewind or online configurations.

Unlike the D-750, which must be stopped after each coil is made, the D-1500 has a cut and transfer system that automatically switches the product to the empty mandrel after a coil is finished winding.

This allows the D-1500 to run continuously for seamless production and packaging when placed at the end of an extrusion line. Online, and in unison with an AC-300 accumulator, the D-1500 will run up to 1,500 feet (457m) per minute producing up to eighty 1,000 ft (305m) coils in an hour. Offline, the D-1500 will produce 30 to 50 coils per hour depending on payoff speed, reel size and operator skill.

**D-2050 Automated Packaging Machine**



The D-2050 is a fully-automated packaging machine designed to perform coiling and boxing tasks continuously without the attention of a machine operator. This allows the manufacturer to achieve significant labor cost savings while maintaining high production rates and producing consistent, high-quality packages.

The product enters the machine from either a motorized payoff or an extrusion line, is automatically coiled on a specialized turret-head mandrel, and then boxed and moved to a conveyor for further processing, palletizing or sorting.

The D-2050 REELEX Coiling and Boxing Machine includes a mounted buffer, a uniquely designed dual mandrel turret-style REELEX coiling head, a tube insertion device, and a box folding and gluing station. All operations are synchronized via a computer processor with touchscreen HMI front-end.

Typical rewind-line production rate is forty (40) coils per hour. Actual rates may vary depending on product type, supply reel length and the use of dual payoffs. Online, and in unison with an AC-500 accumulator, the D-2000 will run up to 800 feet (244m) per minute and produce up to forty-five (45) 1,000 ft (305m) coils in an hour.



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The D-2050 buffer system includes 15" ring sheaves standard for packaging Category 6 and other high performance cables.

### D-750 REELEX Coiling Machine

The D-750 is a single-spindle coiling machine designed for rewind-line REELEX® packaging. This machine is equipped with a collapsible mandrel and automatic end-form removal system which allows easy coil removal. The D-750 also features an integrated buffer system mounted on the frame. This advanced buffer system is used to precisely control line tension and is suitable for Category 6, 6A and fiber optic cables.



Running at 750 RPM, the D-750 is designed to be operated by a single operator performing coil removal and packaging functions and allows for the flexibility of easily switching between product types in minutes. The D-750 can produce up to 40 x 1,000ft (305m) coils per hour.

### Refractron Technologies Corp.

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### Company Profile

## Refractron

Responsive. Innovative. Ceramics.

Are you willing to benchmark your ceramic or carbide supplier for their impact on your wire quality, operational efficiency and total costs?

Refractron works with wire manufacturers every day to help them improve the performance of their critical components by providing precise, reliable, zirconia based ceramics and ceramic – metal assemblies. Izory®, our featured magnesia stabilized zirconia, is proven and is specified by the most recognizable names in wire manufacturing.

Our US factory, is ISO 9001:2008 certified. It includes the critical equipment to make Izory® from raw powders. Our powder processing expertise and proprietary firing cycle allows our engineers and scientists to ensure Izory® has the best material properties. These properties, the surface finish specifications and critical dimensions that are important to making the best wire at the lowest cost, are guaranteed by a rigorous quality program carried out with state of the art tools.

Please visit us in Düsseldorf in HALL 9, booth D06-3 to see our products, to learn about the equipment and procedures we use to guarantee quality, or to ask us for testimonials from the respected wire manufacturers and OEMs we are happy to call customers. The Izory® products our booth will feature will include Izory® rod rings, step cones, multiwire rolls, spooler guides, enameling dies, annealer pulleys, air wipes and eyelets. [www.refractron.com](http://www.refractron.com) [sales@refractron.com](mailto:sales@refractron.com)



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### Exhibitor profile

Refractron Technologies Corp.

Number of employees	50-99
Business volume	10-49 Mio US \$
Export quota	max. 50%
Founding year	1984
Business segment	Tube manufacturing machinery

### Company Contacts

Refractron Technologies Corp.

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### Product Overview

Refractron Technologies Corp.

wire.02.05.04	Ceramics, ceramic-coated
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### RichardsApex, Inc.



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### About Us

Hall 9 F06-5

RichardsApex, a leading global manufacturer of wet lubricants for wiredrawing and hot-rolling applications, provides semi-synthetic and synthetic compounds for wet drawing of nonferrous and ferrous wire as well as protective coatings, cleaners, corrosion inhibitors and oil-form lubricants for all nonferrous and ferrous alloys for both wire and tube applications. Its core products can be made at all of the company's manufacturing locations in the U.S., Europe, Australia and Mexico. With over 114 years of history, RichardsApex has an established global sales network to service customers throughout the world, including on-site support and technical sales assistance. The company has subsidiaries located in both the U.K. (RichardsApex Europe) and in Australia (RichardsApex AustralAsia), and representatives in Canada, China, Greece, India, Italy, Japan, Korea, Malaysia, Mexico, Peru, Poland, Russia, Taiwan, Thailand, Turkey, Venezuela and Vietnam, with many other countries serviced by the subsidiaries and representatives. Please stop by and see how partnering with RichardsApex can help your company achieve your goals for production and cost savings.



**Product Overview**

RichardsApex, Inc.

wire.03.01.01	Oils, greases, lubricants
wire.03.02.02	Degreasing and wetting
wire.03.10.03	Protective agents

**Product Details**

RichardsApex, Inc.

wire.03.01.01	Oils, greases, lubricants
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**Wire Drawing Compounds**

**Drawing Greases**

Grease form drawing lubricants have often been the lubricants of choice since the earliest days of the wire industry. From those simple beginnings have evolved the sophisticated and finished wire use oriented range of products now offered by RichardsApex. Whatever the metal, whatever the end use of the wire, we have a production grease for every die box requirement.



**Drawing Oils**

The RichardsApex line of oil form drawing lubricants is quite broad and quite deep. Due to the large variety of metals which are oil drawn, and due to the even wider variety of production techniques and end uses for these wires, a wide range of possible lubricant requirements is a given. In response to these varying requirements as to surface quality, appropriate residuals, die life, cooling properties, chemical make up and machine design, we have an extensive line of oils that exhibit varying attributes to provide our customers with just the right viscosity, film strength, extreme pressure additive combination and cleaning properties for every application.

**Quench Anneal Compounds**

Once an area that received little acclaim, good, consistent, predictable in line annealing is now recognized as an essential for every wire mill. Long the leaders in this field, the RichardsApex line of quench anneal compounds knows no peers in the industry.

**Water Soluble - Ferrous and Alloy**

Water soluble compounds are often specified where their special properties pro-



vide superior performance compared to oil form materials. We provide the right materials for the right application in any ferrous or alloy drawing operation appropriate for water soluble techniques. This range of products covers all possible requirements as to additive chemistry, foam control, cleaning requirements, plated wire surfaces, surface finish, speeds, die life and cleanliness.

**Water Soluble - Non-Ferrous**

This is another area of wire drawing lubrication in which RichardsApex has made many pioneering advances in our 100 year history. As the most widely used line of materials in the non-ferrous industry for the past 100 years, this constantly updated range of products remains the most modern and technologically sound choice of materials for the entire non-ferrous industry.

**Rockford Manufacturing Group, Inc.**

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Stand	Hall 15, H41



**RMG Profile**

Since 1976 Rockford Manufacturing has been designing robust in line wire drawers and related equipment for the fastener industry. Over the last three plus decades RMG product offerings have grown by organic expansion and acquisition and now offers and supports a complete and comprehensive line of wire and rod machinery for the fastener, wire products, wire production and construction industries.



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RMG remains committed to finding cost effective machinery solutions for the wire process needs of our customers by building each machine or piece of equipment to order, specifically as the customer requires.

Our modern facility is located at the top of Illinois in South Beloit. We are conveniently located adjacent to East/West Interstate 90 and North/South Interstate 39, and can be reached in about one hour from either the Chicago O'Hare or Milwaukee Mitchell airports.

Tours are always welcome. Arrange a time or just show up during normal working hours, our modern efficient shop is always tour ready. We always have several machines ready for operation in our demonstration and application testing room.

**Product Overview**

Rockford Manufacturing Group, Inc.

wire.01.03.01	Wire drawing machines (dry, fine, multi)
.....	
wire.01.06.02	De-coiling, unwinding
.....	
wire.01.06.06	Straightening
.....	
wire.01.06.13	Material Handling

**Product Details**

Rockford Manufacturing Group, Inc.

wire.01.03.01	Wire drawing machines (dry, fine, multi)
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**Wire Drawers**

1. Lower Material Costs

Using hot-rolled rod (for any wire diameter "218" (5.5mm) and larger) and/ or semi-finished wire will give your company a competitive edge and improve profits.

2. Utilize Just-In-Time Inventory

An in-line wire drawer at the point of wire consumption

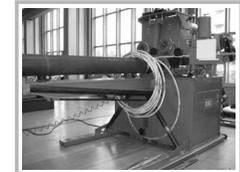


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is the ultimate in JIT inventory management. By careful selection of parents diameters and drawing many different sizes from a few stock sizes, inventory dollars can be reduced considerably.

wire.01.06.02	De-coiling, unwinding
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**Uncoilers**



wire.01.06.06	Straightening
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**Straightening and Cutting Machines**

General Features and Benefits ALL RMG Straightening and Cutting machines provide the same benefits: -Ease of adjustment .Lower tooling costs .Quiet operation .Low cost maintenance The following features apply to all models of the RMG straightening and cutting machine Model 14, Model 15, Model 16 and Model 28



**Royle Systems Group LLC**

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### About Us

Royle Systems Group manufactures complete extrusion systems for a variety of cable products. With total capability in fiber optic machinery and cable manufacture equipment, Royle has the technological savvy and

industry experience necessary to supply and support most any cable production system. We also have proven capability in the supply of CV lines for power cables of all types. Our product range is completed with telephone insulating and sheathing equipment together with coax/CATV and high temperature specialty systems.

We also offer technical services to facilitate smooth, successful integration and maintenance of our systems. Included in our services are classroom and hands-on training programs and our Preform Pilot Plant which allows clients to come see and experience our systems firsthand. We at Royle can look with pride at our history (founded in 1855) as we commit ourselves to the furthering our status as a dominant player in the fiber optic industry.

### Product Overview

Royle Systems Group LLC

wire.01.09.07 Cable extrusion machines

### Product Details

Royle Systems Group LLC

wire.01.09.07 Cable extrusion machines

### Drycure CV



Royle manufactures a wide variety of Drycure Continuous Vulcanizing (CV) lines – small to large angle catenary and vertical configurations — that are uniquely designed to optimize the performance on the wires and cables that are defined by customers for their specific projects.

The Royle Drycure CV line uses nitrogen as the pressurizing medium and zoned radiant heating that allows a unique temperature profile to be utilized in accordance with computer generated curing and cooling that is optimized for line speed performance on each conductor size and insulation thickness. The optimized temperature profile assures that the surface temperature of the extruded outer semiconducting layer does not exceed temperature limits that are defined by the material manufacturers. Nitrogen is the ideal atmosphere for curing



medium and high voltage insulations, as the inert gas provides a dry pressurized atmosphere, which some users require to minimize the presence of micro voids that they believe may cause inferior electrical test performance. Since the vulcanizing pipe is hot and dry, there is no lubrication on the surface. For this reason, curing must be completed while the cable is suspended in the catenary pipe and the cable must touchdown in the cooling section which has water or gas to cool the cable.

### Types of Drycure CVs

CVs for LOW VOLTAGE power distribution in industrial and utility applications

Triple CVs for MEDIUM VOLTAGE power distribution in industrial and utility applications

Triple CVs for EXTRA HIGH VOLTAGE power distribution in utility applications

### Extruded Materials

All types of XLPE and EPDM materials

### Fiberoptic Cable



Royle manufactures a range of lines for processing single mode and multi-mode fiber. Royle recommends that cable manufacturers buy uncolored fiber from known world-class suppliers. Royle produces lines to handle the conversion of uncolored fiber to the full range of indoor and outdoor fiber cable applications. Each line is uniquely designed to optimize the performance on the types of fiber optic cables that are defined by customers for their specific projects.

### Types of Fiber Processing Lines

Fiber coloring line

Tight buffering line for single and multi-mode fibers

Loose tube buffering line with gel fill and excess length control for 1 to 24 fibers

Stranding line for SZ assembly of 6 to 12 tubes on a central strength member with gel fill and taping

Jacketing / Sheathing line for indoor and outdoor with accessories for overhead support, gel fill and armor

Mechanical and Optical test equipment as part of total factory technical support

### Extruded Materials

PBT, Nylon and PP for tubes and HFFR, PE and PVC for sheaths



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### Steam CV

Royle manufactures a wide variety of Steam Continuous Vulcanizing (CV) lines – small to large angle catenary and vertical configurations — that are uniquely designed to optimize the performance on the wires and cables that are defined by customers for their specific projects.



Steam is the ideal medium for curing all types of low voltage rubber wires and cables, because rubber materials cannot withstand high temperatures used in radiant heated nitrogen lines. However, LV rubber cables do utilize the heat of vaporization of steam to reduce the curing time. Condensation of steam that occurs as a result of curing the rubber flows down the curing pipe and provides a lubricating surface for the insulated or jacketed cable, so that the length of the catenary curing pipe can be shorter on steam CVs.

#### Types of Steam CVs

CVs for automotive, appliance, electronic and similar small conductors

CVs for low voltage power distribution, flexible power, welding and similar large conductors

CVs for medium voltage power distribution cables

CVs for insulating and for jacketing of large assembled cables for power applications

#### Extruded Materials

All types of rubber materials, XLPE, EPDM, Silicone, CSP, Neoprene and special materials



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www.wire.de / www.Tube.de

### RTM Products, Inc.



Address	13120 Arctic Circle 90670 Santa Fe Springs, CA USA
Phone	+1 562 9262400
Fax	+1 562 9262441
Internet address	www.rtmproducts.com
E-Mail	sales@rtmproducts.com
Stand	Hall 15, J16



#### RTM Products, Inc.

RTM Products is one of the most experienced Recess Heading Tool Companies in the world, servicing the Worldwide Fastener Industry. The RTM management team has an excess of 75 years hands-on experience and have held Top Management positions at some of the most reputable past and present day, header tool companies.

RTM Products, Inc., was established in 1998 with a goal to provide our customers with the BEST service & quality recess heading tools in the industry. RTM's production capabilities are "State of the ART" enabling RTM to offer short deliveries with the highest in dimensional & tool life quality.

At RTM Products, we design solutions that work for your tooling needs. From standards to special tools, we continually pursue new standards of worldwide tooling and service excellence.



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www.wire.de / www.Tube.de

### Exhibitor profile

RTM Products, Inc.

Number of employees 20-49

Business volume 10-49 Mio US \$

Export quota max. 25%

Founding year 1998

Business segment

### Company Contacts

RTM Products, Inc.

#### Department/Name Address

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robert@rtmproducts.com

Richard Thierjung Phone: +1 562 926-2400  
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richard@rtmproducts.com

### Product Overview

RTM Products, Inc.

wire.01.07.03 Cold upsetting, forging

### Product Details

RTM Products, Inc.

wire.01.07.03 Cold upsetting, forging

### Recess Heading Tools

Manufacturer of recess heading tooling for the worldwide coldforming & fastener industries. Tooling produced by RTM include Torx®, Torx Plus®, 6-Lobe Tooling & Gages, Cruciform, Hexagon Socket Tooling & Gages, Hexagon Washer Tooling, Wafer Tooling, Aerospace Recess Punches & Tooling, Trimming Dies & Special Recess Punches & Tooling”



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Internationale Fachmessen  
www.wire.de / www.Tube.de

### Salem Tube, Inc.

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Internet address www.tubacex.com

E-Mail sales@salemtube.com

Stand Hall 03, A18



### Salem Tube, Inc.

Tubacex, a Global Leader in Seamless Stainless Steel  
Tubes manufacturing

TUBACEX is an industrial Group founded in 1963 devoted to manufacturing seamless tubes in stainless steel and high-nickel alloys and superalloys, with its head office in Llodio (Alava-Spain).

TUBACEX is a leading multinational Group, with industrial facilities in Spain, Austria, the United States, Italy, China and India and a broad network of sales offices spread around the world.

TUBACEX, is the largest worldwide producer of seamless tubes in stainless steel and high-nickel alloys, and one of the few companies to have an integrated production: steel manufacturing, hot extrusion and cold-rolling of the tubes. The existence of our own steelworks provides the facilities with a large flexibility in the production of tubes, both for the opportunity of making special castings as well as reducing delivery times in urgent orders. The Group has a unique marketing structure for its products on a worldwide level.

The main demand segments for the tubes manufactured by TUBACEX are the



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Internationale Fachmessen  
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oil and gas, petrochemical, chemical and power generation industries. It also devotes part of its production to the mechanical industry, aerospace, food, water desalination, electronics, capital goods and new technologies, among other industries.

The company's staff has approximately 1,950 members with over 20 different nationalities and spread out through 15 countries.

TUBACEX is listed in the Spanish Stock Market (TUB MC) since 1970 and its shares are integrated in the IBEX MEDIUM CAP index.

Product Overview		Salem Tube, Inc.
tube.01.01.03.01	Duplex and nickel base alloy pipes and tubes	
tube.01.02.01	Austenitic	
tube.01.06.02	Seamless steel tubes	
tube.01.06.04	Precision tubes	
tube.01.08.06	Shipbuilding and aircraft construction	

Product Details		Salem Tube, Inc.
tube.01.06.02	Seamless steel tubes	

**Hollow bars**

Hollow bars

Stainless Steel Hollow Bars constitute a main part of TUBACEX Group's product portfolio which can be summarized as follows:

Outside diameter from 32 to 250 mm OD

By Materials:

Austenitic Stainless Steels, particularly 304, 316, 316 Ti, 321 and Duplex.



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Carbon steel hollow bar is not produced by the group's companies but it is commercialized by Tubacex's subsidiary Tubos Mecánicos with a leading position in the Spanish market.

By Process:

- Hot Finished Seamless Stainless Steel Hollow bar
- Cold Finished Seamless Stainless Steel Hollow bar

By Standards:

- ASTM
- ASME
- DIN
- EURONORM
- ISO

> For and overall view of the group's production and manufacturing range click here.

> For a detail view please click on each of the group companies's logo to access specific information catalogue and quality certificates.

**Seamless Stainless Steel and High Nickel Alloy Tubes and Pip**



Seamless Stainless Steel and High Nickel Alloy Tubes and Pipes

Tubacex Group is mainly dedicated to the production and sale of seamless stainless steel and high nickel alloy tubes and pipes. Our portfolio can be summarized as follows:

Outside diameter from 3mm – 219 mm OD. Mechanical boring up to 42"

By Materials:

- Stainless steels: austenitics, including stabilized grades.
- Alloyed and martensitics steels.
- High Nickel alloys.

Ferritic – austenitic: Duplex and Superduplex

By Standards:

- ASTM, ASME, DIN, EURONORM, ISO, BS, AFNOR, JIS, GOST



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Other technical specifications upon request.

By Process:

Hot Finished Seamless Stainless Steel Pipes

Cold Finished Seamless Stainless Steel Pipes

Welded and drawn tubing

Mechanical boring

> For an overall detailed view of the group's production&manufacturing range click here.

> For a detail view please click on each of the group companies's logo to access specific information, catalogue and quality certificates by company.

### Stainless Steel

Stainless Steel

Stainless steel long products as square and round bars, billets and ingots are produced a by the group's subsidiary Aceralava and can be summarized as follows:



By Materials:

Stainless steels: austenitics, including stabilized grades.

Martensitics.

Ferritic - austenitic.

High Nickel alloys.

By application:

Round bar

Round billet

Square billet

Ingot

By Process:

Rolled

Forged

> For a detail view please click



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www.wire.de / www.Tube.de

### SCAN SYSTEMS CORP.



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Stand Hall 06, F24



### A World of Products for a Global Industry.

Formed in the 1980s to create products for the pipe and metal industries, Scan Systems has grown from its early days of manufacturing OCTG pipe inspection equipment to offering a large array of products and services. Our team members include executives from the pipe inspection industry, engineers from all disciplines specializing

in non-destructive testing, software designers with pipe management experience, and manufacturing technicians who have years of extensive experience with hydraulics, pneumatics, and electrical systems.

Scan Systems Corporation's engineers, experienced in the non-destructive testing field, recognized the need for a better way to introduce artificial flaws into standards for calibrating ultrasonic inspection equipment that would improve quality assurance response.

With that mission, we designed and manufactured the world's first portable EDM unit (electric discharge machine) specifically designed to introduce artificial flaws in metal products. In the late 80's, we received our first patent for our EDM Notch Master unit. Since then, our Notch master product line has become the recognized standard in portable EDM equipment used for manufacturing calibration flaws on both the inside and outside diameters of pipe and as well as UT standards for other metal products.

At the same time, another team within our group was working on two outstanding



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products for pipe service operations. The results of their efforts are our Tally-Rite Measuring Systems, automated pipe tally equipment that significantly reduces direct labor and human errors, and our TDS (Tubular Data Systems), a PC based computer software system for OCTG inventory management and control within pipe servicing companies.

With our roots being in the pipe inspection business, it's only natural we would have a group of engineers and support staff that develops, manufactures, and support new OCTG pipe inspection equipment and technologies. PITCO (Pipe Inspection Technologies Company) maintains an extensive inventory of replacement parts, supplies, and equipment for our customers' needs. PITCO also maintains a fleet of mobile service vehicles stocked with the latest equipment and manned by the most experienced technicians in the industry. Our technicians are trained and on call 24/7 to service all your inspection equipment, regardless of brand or model.

Our strength over the years has been to recognize operational shortfalls, or antiquated procedures and provide a way to improve them. We offer our services both as a consultant and as a turnkey vendor to design and manufacture software systems and specialized equipment for our customer's unique requirements.

We are naturally very proud of all our operating divisions, our people, and our products. Since our inception, we have been offering our customers quality products, services, and innovative ideas. But above all,

Unmatched Customer Service and Your Total Satisfaction is our goal!

That's how we've done it in the past, and that's how we'll do it in the future!

**Exhibitor profile** SCAN SYSTEMS CORP.

Number of employees 50-99

Business volume -

Export quota -

Founding year 1984

Business segment



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 www.wire.de / www.Tube.de

**Company Contacts** SCAN SYSTEMS CORP.

Department/Name	Address
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Mike Joslin	Scan Systems Houston, TX 77032 Phone: 281-219-9480 Fax: 281-219-2317 mikej@scansystems.com

**Product Overview** SCAN SYSTEMS CORP.

tube.02.04.11	Heat treatment/Process and equipment
tube.06.02.03	Eddy current test and magnetic particle examination
tube.06.02.04	Sonic and ultrasonic testing
tube.06.02.05	Leakage testing
tube.09.01.01	Machinery and equipment
tube.09.02.01	Equipment condition monitoring, pigging etc.
tube.09.02.02	Leak searching systems



**Product Details**

SCAN SYSTEMS CORP.

tube.02.04.11

Heat treatment/Process and equipment

**TDS (Tubular Data Systems)**

TDS (Tubular Data Systems) is a very specialized piece of software that addresses perhaps the most difficult of all inventory control problems in our industry, that being the storage and movement of OCTG material to, from, and within pipe storage and service facilities.



With over 30 years of extensive first-hand experience working with OCTG materials, having our company roots in inspection, storage and service of OCTG tubing and casing – our developers have been exclusively devoted to systems and processes directly related to the inventory management side of the business. We produce the most effective software system for inventory control and the processing of OCTG materials available to the industry today.

Our flagship product, TDSW (Tubular Data Systems for Windows) has become the standard in the industry to which all other OCTG systems are compared. No other product or application, regardless of price, has the features, functionality and technology of TDSW.

Our client list includes companies from all segments of the pipe industry. Our customers use TDS within their operations to track the movement of the pipe through the yard. TDSW can track the movement and the changes that occur in the heat treatment line, to the hydro test, on to the threading line and through the inspection process, dealing with the changes that occur to each joint of pipe as it travels throughout each stage of the process. With extensive reporting capabilities, you and your customers can have instant real time access to inventory reports, shipping reports, receiving reports, tally reports and much, much more. In fact, many of the major pipe inspection company in Houston, Texas (the pipe capital of the world) uses TDS within their operations.

Before you choose an inventory system that is right for your facility, or just as importantly, before you choose the right vendor, ask them one questions...

Can they easily understand a product that is, originally manufactured and sold wholesale by the ton, handled and stored by the piece, and sold again to end users by the foot?

The point is, you don't have to teach us the business. TDS products are built "FOR pipe people, BY pipe people."



**SIMILCUT LLC**

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Fax	
Internet address	www.similcut.com
E-Mail	
Stand	Hall 06, B19



**SIMILCUT LLC**

Similcut is formed on the cornerstone principles of successful heavy mill equipment builders-engineering knowhow and quality on time manufacturing. We have been engineering and manufacturing equipment and parts for the tube and pipe industry for decades. Our success can be proven by our customer list that includes many of the most successful and forward thinking producers of tube and pipe in North America and locations worldwide. We invite you to join the growing list of customers using our equipment to improve quality, efficiency and safety on their mill lines.

**Product Overview**

SIMILCUT LLC

tube.02.03.11

Inside and outside scarfing systems for longitudinally welded tubes



**Product Details**

SIMILCUT LLC

tube.02.03.11

Inside and outside scarfing systems for longitudinally welded tubes

**Industry**

We have been associated with rugged highly advanced inside tube and pipe scarfing equipment for over 25 years. With installations in most segments of the tube and pipe industry our design concept has been proven time and time again. Throughout our history we have grown and advanced to successfully meet our customers' challenges to produce higher quality products. This has driven new designs for the basic principle of cantilevered cutting.



Some of the most demanding tube and pipe products are produced using Similcut equipment. We routinely cut API pipe grades to P110 and wall thicknesses from .060" [1.5mm] to .760" [19mm]. With the use of new high strength nonmagnetic bar materials designed using Finite Element Analysis we can typically cut a wide range of gauges, grades, and diameters with a single bar arrangement.

**THE UNITS FEATURE:**

Ease of tool change for both tool size and geometry Flexible mounting options for specific mill requirements Close coupled cutting distance for a high quality cut, longer tool life and fewer adjustments Adjustments made through mechanical screw jacks with counters for fine repeatable and recordable movements Coolant booster pump for ferrite cooling and flushing Many bar and stand options available Bead chipping features ID camera

If you would like more information on our units, please feel free to contact us.



**SIMPACKS LLC**

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Stand	Hall 09, D16-2



**Simpacks**

SIMPACKS is dedicated to providing excellence in the Manufacturing and Design of Coiling, Spooling, Wrapping and Packaging Solutions for the Wire & Cable industry. SIMPACKS manufactures customized Systems to meet market demand and customers requirements.

**THE MANUFACTURING PROCESS**

1. Concepts: Possibilities Simpacks incorporates the most innovative Design and Manufacturing Technologies.
2. Engineering: Design Simpacks Engineering work closely with the customer to ensure that the System supplied meet their exact requirements.
3. Manufacturing: System A team of Engineers and Manufacturing Experts apply their extensive and varied experience to build your system. At completion, your automated system is tested to assure that it meets the quality and performance standard defined by you.
4. Operation: Proof Simpacks continue to provide comprehensive support to you once your system is running.
5. Satisfaction: Result A strong business relationship and automation systems that fully satisfy your expectations of quality, productivity and efficiency.

Our Engineers are IEEE, WAI, ISA & SME members.



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**Exhibitor profile** SIMPACKS LLC

Number of employees	1-19
Business volume	1-9 Mio US \$
Export quota	max. 10%
Founding year	2005
Business segment	Specialist areas

**Company Contacts** SIMPACKS LLC

Department/Name	Address
Hernando Blanco	Phone: 2015323025 hblanco@simpacks.com

**Product Overview** SIMPACKS LLC

wire.01.06.01	Coiling, winding
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**Product Details** SIMPACKS LLC

wire.01.06.01	Coiling, winding
---------------	------------------

**Coiler**

- Automatic Dual Head Coiler
- Automatic Single Head Coiler
- Automatic Single Head Coiler + Binder
- Automatic Single Head Coiler + Wrapping

**Semi-Automatic Dual Spooler**

**•Automatic Wrapping**

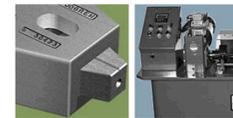


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Internationale Fachmessen  
www.wire.de / www.Tube.de

**Sjogren Industries Inc.**



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E-Mail	sales@sjogren.com
Stand	Hall 11, D42



**About Us**

In the early 1920s, a Swedish immigrant working in a wire mill in Worcester, Massachusetts had an idea that would change the wire and cable industry forever. Oscar Sjogren had the innovation to design a tool that would make him better at his job, and the integrity to show that tool to his supervisor. After demonstrating how much the tool could positively impact his production, he sold it to the mill and used it in his daily work.

After designing and selling several tools for wire work and subsequently selling them to his mill, Oscar Sjogren followed his entrepreneurial spirit and founded Sjogren Industries in 1927. From the start Sjogren Industries earned a reputation for innovating ahead of the wire and cable industry and constant working toward product development and improvement.

Sjogren Industries has been selling its superior wire tooling products to the wire and cable industry in the United States for four generations. In 1986, Carl Sjogren stepped into his great grandfather's shoes when he took over the business. Since becoming president of Sjogren Industries, Carl has led the company through a tremendous period of growth, expanding product sales into Europe, and more recently launching a new manufacturing facility, Sjogren Manufactur-



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ing, Inc., in Worcester, MA.

Today Sjogren Industries continues to build its reputation by providing customers with the highest quality products, designed and built by a superior engineering team. Our high quality machinery, tooling and accessories are sold worldwide with distributors located in Europe, South Africa, Asia, and Mexico.

**Company Contacts** Sjogren Industries Inc.

Department/Name	Address
Armin Losch	Losch@pa.com

**Product Overview** Sjogren Industries Inc.

wire.01.06.06	Straightening
wire.01.14	Spare parts for wire and cable machines
wire.02.03.10	Pulling in dogs

**Product Details** Sjogren Industries Inc.

wire.01.06.06	Straightening
---------------	---------------

**Wire Straighteners**

The roll-straightening process is a cold-forming process that uses rollers to provide uniform bending of wire and/or rod material to change its shape and possible other characteristics for use in subsequent processing.



Sjogren Industries offers a comprehensive line of roll straighteners and a complete line of replacement parts and precision-grooved rolls. Our precision-grooved rolls deliver the tightest tolerances in the industry (+/- 0,025mm). Our modular units combine a vertical and horizontal straightener, mounted in tandem—an industry-wide, tried-and-true formula for straightening wire and cable.



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wire.01.14 Spare parts for wire and cable machines

**Machines and Replacement Parts**

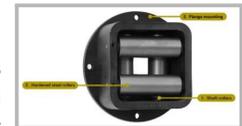
Sjogren manufacturers a variety of machines for quality control such as the Bench-Top Wrap Tester and the Torsion Twist Tester. We also manufacture a Motorized Die Stringer with Hand Pointer for use with wire drawing equipment.



wire.02.03.10 Pulling in dogs

**Inlet Guide Roller**

A wire guide is a precision-guiding tool that uses rollers to roll rather than slide wire into a drawing machine from coils. 1. Shaft collars Advantage: Makes shims unnecessary Your gain: Lower maintenance cost 2. Hardened steel rollers Advantage: Improves wear Your gain: Lower maintenance cost 3. Flange mounting Advantage: Simplifies installation Your gain: Low installation cost



**Southwire Company, LLC SCR Technologies**



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Stand	Hall 09, E16-3



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### About Us

Southwire delivers power to millions of people around the world. Our utility cable and building wire carry electricity to wherever it is needed. One in three new homes built in the United States contains wire made by Southwire.

Southwire leads the industry with innovative products that simplify installation, saving our customers time and money. Southwire has the right wire and cable solution for any commercial, residential, industrial or utility application. If Southwire does not have the solution, we'll design it and make it to order.

Our corporate structure centers around four distinct manufacturing segments—Energy, Electrical, OEM (Original Equipment Manufacturing) and SCR® (Southwire Continuous Rod). Each focuses on a specific group of products and customers.

Our Energy Division sells a full line of low, medium and high-voltage cable products that move power from the generation source to buildings and homes. Customers include investor-owned utilities, rural electric cooperatives, municipalities, contractors and utility distributors.

Our Electrical Division products distribute power inside homes and buildings. Whether it's Romex® brand building wire, copper or aluminum MC, copper AC or flexible, metallic or liquidtight conduit, 600-volt or 24-kilovolt wire, our Electrical Division's products move power exactly where it is needed.

Our OEM Division sells wire and rod to customers who manufacture such products as automobile wiring harnesses, insect screening, transformers, electric motors, HVAC equipment, appliances and industrial equipment.

Our SCR® Technologies Division has been the technological leader in continuous cast copper and aluminum rod manufacturing since the 1960s. More than half of the continuous-casting copper rod capacity in the world uses our technology—which means most of the world's copper wire passes through technology provided by Southwire.

### Product Overview

Southwire Company, LLC SCR Technologies

wire.01.01.02	Continuous casting
wire.01.01.03	Continuous Cast Rod Process (CCR-Process)



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Internationale Fachmessen  
www.wire.de / www.Tube.de

### Product Details

Southwire Company, LLC SCR Technologies

wire.01.01.02	Continuous casting
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#### AAA 6201

APPLICATIONS Used as bare overhead conductor for primary and secondary distribution. Designed utilizing a high-strength aluminum alloy to achieve a high strength-to-weight ratio; affords better sag characteristics. Aluminum alloy gives AAAC-6201 higher resistance to corrosion than ACSR. SPECIFICATIONS Southwire's AAAC-6201 bare conductor meets or exceeds the following ASTM specifications: • B-398 Aluminum-Alloy 6201-T81 Wire for Electrical Purposes. • B-399 Concentric-Lay-Stranded 6201-T81 Aluminum Alloy Conductors. CONSTRUCTION Aluminum alloy 6201 wires, concentrically stranded.



wire.01.01.03	Continuous Cast Rod Process (CCR-Process)
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#### Continuous Cast Copper Rod

Southwire copper rod products are manufactured from continuously cast and hot rolled high conductivity copper and exceed the requirements of standard specifications such as ASTM B49, BS 6926, EN 1977 and AS 2737. Manufacturing complies with ISO 9001:2000 Quality Management System requirements. Wire Specification: ASTM B-49. Copper Alloy: Complies with UNS Numbers C11040 ETP & C11000 ETP with M20 temper as rolled.





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## SST Forming Roll, Inc.

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E-Mail	<a href="mailto:info@sstformingroll.com">info@sstformingroll.com</a>
Stand	Hall 05, H16



### About us

SST Forming Roll, Inc. and Sanyo Seiki, Co. are Forming Roll Specialist.

Sanyo Seiki manufactures forming rolls in main facility in Yamagata, and also has three regrinding factories in Japan. All raw materials are forged in Japan. Sanyo Seiki also owns two in-house heat treatment facility.

SST Forming Roll has sales office and regrind facility in north of Chicago, USA.

Sanyo Seiki and SST have a design team consisting of over 20 engineers.

We also offer FEA with 6 units located in the United States and Japan.

<http://www.sanyoseiki.co.jp/english/index.html>



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[www.wire.de](http://www.wire.de) / [www.Tube.de](http://www.Tube.de)

### Exhibitor profile

SST Forming Roll, Inc.

Number of employees	1-19
Business volume	10-49 Mio US \$
Export quota	max. 50%
Founding year	1983
Business segment	Tube manufacturing machinery, Process technology tools and auxiliaries

### Company Contacts

SST Forming Roll, Inc.

Department/Name	Address
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Hiro Watanabe	SST Forming Roll Inc <a href="mailto:info@sstformingroll.com">info@sstformingroll.com</a>
Takeshi Takiguchi	Sanyo Seiki Co, Ltd. J-351-0033 Asaka Phone: 81-48-486-1100 Fax: 81-48-486-1101 <a href="mailto:info@sstformingroll.com">info@sstformingroll.com</a>

### Company News

SST Forming Roll, Inc.

#### 01/07/2016 2 more FEA unit added

Due to heavy demand, SST Forming Roll Inc and Sanyo Seiki Co Ltd has installed two more FEA unit in Japan and USA.

Now total of 6 FEA unit are fully working on analysing customer's both closed shape and open profile project.



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[www.wire.de](http://www.wire.de) / [www.Tube.de](http://www.Tube.de)

**Product Overview**

SST Forming Roll, Inc.

tube.02.05.01 Forming, bending, twisting, fabricating, hydroforming

**SXP Schulz Xtruded Products LP**



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Stand	Hall 03, B29



**About Us**

Schulz Xtruded Products, in Tunica, MS, is a new proud member of the Schulz Group of Companies. SXP joins the existing Schulz Group of Companies headquartered in Krefeld, Germany with manufacturing facilities in Germany, Brazil and the United States and Sales offices in 16 countries worldwide. For over 65 years, industries around the globe have come to rely on the Schulz Group of Companies for all their pipe and fittings needs.

SXP specializes in a complete range of seamless stainless pipes, nickle-based and alloy pipes, metallurgically bonded, seamless clad pipes - known as SX-Clad - and extruded shapes/profiles for aerospace applications. Clients range from oil and gas companies, power and nuclear power plants, water treatment centers, chemical and petrochemical companies and aerospace companies.



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 Internationale Fachmessen  
[www.wire.de](http://www.wire.de) / [www.Tube.de](http://www.Tube.de)

**Company Contacts**

SXP Schulz Xtruded Products LP

**Department/Name Address**

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**Product Overview**

SXP Schulz Xtruded Products LP

- tube.01.01.03.01 Duplex and nickel base alloy pipes and tubes
- tube.01.01.04 Bimetallic tubes
- tube.01.02.01 Austenitic
- tube.01.02.02 Ferritic
- tube.01.02.03 Martensitic
- tube.01.03.04 Nickel
- tube.01.03.06 Titanium
- tube.01.06.02 Seamless steel tubes
- tube.01.06.14 Extruded tubes
- tube.01.06.15 Pilger tubes

tube.01.07.03	Line construction (water, oil, gas, vapour)
.....	
tube.01.07.05	Nuclear power stations
.....	
tube.01.07.07	Drilling technology (water, oil, mineral wells)
.....	
tube.01.08.06	Shipbuilding and aircraft construction
.....	
tube.01.08.08	Chemicals (including acidproof tubes)
.....	
tube.10.01.02	Stainless steel profiles
.....	
tube.10.01.04	Alloys Profiles

**Product Details**

SXP Schulz Xtruded Products LP

tube.01.01.03.01 Duplex and nickel base alloy pipes and tubes

**SX-Clad Metallurgically Bonded, Seamless Clad Pipes**

Today's oil and gas pipelines and process piping are exposed to increasingly severe corrosive environments as new deepwater reserves are discovered. Extreme depth results in higher temperatures and pressures, a combination that puts your system under constant stress.



**A Proprietary New Pipe Manufacturing Process**

Drawing on our decades of experience in cold forming technology, and working in conjunction with Petrobras Brazil, the Schulz Group of Companies has developed a unique new process for producing a metallurgically bonded seamless clad pipe we call SX-Clad.

Traditionally, bi-metallic pipes have been used to combat corrosion while containing the immense pressure involved. These pipes consist of a thin, corrosion-resistant ID (CRA) pipe inside a heavier, stronger OD (host) pipe for pressure containment. Until now, bi-metallic pipes have been produced through techniques like welding roll-bonded clad plate, weld overlay of both welded and seamless pipe, and mechanically lining a host pipe with a thin, welded CRA pipe.

tube.01.06.02 Seamless steel tubes

**Seamless Stainless, Nickel Base & Alloy Pipes**

No matter your needs, Schulz Xtruded Products can provide the perfect industrial piping for your application. Our Tunica plant is dedicated to producing both hot- and cold-finished seamless stainless steel pipe, high alloy pipe, nickel-base pipe and titanium pipe starting from 4" to 24" with a wall thickness up to Schedule 160, in lengths up to 42'.

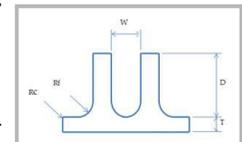


tube.10.01.04 Alloys Profiles

**Extruded Shapes/Profiles for Aerospace Applications**

**Extruded Shapes/Profiles for Aerospace Applications**

Call on SXP for titanium extruded shapes/profiles for the aviation and aerospace industries. Titanium extruded shapes/profiles are widely used in the manufacture of landing gears, engine and fuselage components and various other aircraft parts. The use of extruded shapes/profiles for aircraft parts represents major cost saving advantages in terms of "buy to fly" ratios, use of raw material and scrap generation, as well as savings in machining time and tooling costs.





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## T&H Lemont Inc.



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### T&H Lemont



T&H Lemont designs, manufactures and reconditions Pipe and Tube Mills for diameters up to 16" (406.4mm) for API, Structural and Mechanical applications World-wide as well as Roll Formers for difficult and unique products. We are also a trusted designer, manufacturer and reconditioner of Pipe, Tube Mill and Roll Form Tooling.

Specialties include Mill Processes for Carbon Steel, Stainless Steel, Titanium, Copper, Precious, Alloyed or High Strength metals. We have expertise with High Frequency Welded Induction/Contact Systems, TIG, Plasma and Laser Welded Systems. T&H Lemont provides Electrical and Mechanical Mill Services to assist with Installation, Training and Startup along with Mill Process Improvement support.

Our Engineering Team excels in designs for API applications including Coiled Tube Lines, Dual Capacity Rafted Mills, Heavy-Duty Weld Boxes, Seam Orientation Stands and High Speed Strip Accumulators. Ask us about our range of uncomplicated Quick-Change Mill Solutions.

Innovative Tooling Solutions include the use of Urethane, Ceramic and Carbide

designs along with Floating and Idle Flange designs. Give us a problem to solve!

## Company Contacts

T&H Lemont Inc.

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## Company News

T&H Lemont Inc.

### 12/08/2015 T&H Lemont Participates in FABTECH 2015 – CHICAGO. 11.23.2015

We want to extend a thank you to everyone who stopped by T&H Lemont booth at FABTECH, McCormick Place, Chicago IL. We hope you enjoyed the tradeshow overall and enjoyed your visit to the Pipe and Tube Pavilion and our booth.



It was a pleasure meeting you and discussing your company and your needs. We hope to stay in touch over the coming months and if you have any questions, about what we discussed in our booth, please don't hesitate to contact us. Also, if you didn't get a chance to stop by and have a question or a need contact:

sales@thlemont.com. or by phone at: (708) 482-1800

**Product Overview**

T&H Lemont Inc.

tube.02.02.01	Cold rolling mills
tube.02.02.08	Tube rolling mills
tube.02.02.11	Sizing mills
tube.02.03.01	Tube forming equipment
tube.02.05.02	Straightening
tube.02.05.21	Horizontal strip accumulators
tube.02.05.27	edge milling machines
tube.04.05	Rolling
tube.09.01.01	Machinery and equipment

**Product Details**

T&H Lemont Inc.

tube.02.02.01 Cold rolling mills

**Flexible Hose Machine**

Engineered specifically for the production of flexible metal hose, T&H Lemont's FHM Series is the newest technology available for the production of this increasingly popular type of hose. Metal strip is automatically wound into an interlocking or overlapping spiral, enabling you to produce consistently high-quality product with minimal operator involvement. The FHM Series readily handles coated cold rolled steel and stainless steel, producing hose with inside diameters from 1/4" to 16". A packing filament can be inserted during the forming process to offer protection against dust and moisture. And all T&H Lemont Flexible Metal Hose machines are available with either a speed matching rotating drum type accumulator or motorized run out table.



tube.02.02.08

Tube rolling mills

**High Frequency (HF) Mill Systems**

High Frequency (HF) Mill Systems — These are the work horses of the pipe and tube industry, and the hallmark of the T&H Lemont product line. When coupled with large hi-frequency welders and fast cutoffs, these hi-speed precision platforms, with up to 1000 feet per minute, serve the automotive, structural and mechanical tube markets on a year-after-year basis producing millions of feet as well as hundreds of thousands of tons of carbon steel, stainless steel or super hi-strength (100 KSI plus) pipe and tube. Our specialty is the abnormal and difficult, as in Diameter-to-thickness (D/t) ratios of plus 80 D/t and under 5 D/t.



Our Dual Capacity Mill is a pioneering concept in mill construction, with the WU-20/WU-40, combining two mill systems into one high speed production line. With minimal downtime, exact precision, and the ability to produce .5 to 6.625 inch (12 to 168.3 mm) diameter tubing, our customers have reached record production runs. Ideal for many applications, these mills are preferred for the manufacturer of hydro- formed tubing, sprinkler pipe, conduit, mechanical and structural tubing, varied disciplines that many manufacturers seek for expanded capabilities and broader market appeal, and so their profits. It is this very focus on the products you wish to make, that drives our engineering and technological achievements, coupled with the vast resources of the Inductotherm group of mill equipment companies, that places T&H Lemont head and shoulders above other manufacturers.

Be it carbon or stainless steel — T&H Lemont is the source you can trust. From start to finish we are the only single source that can stand behind your entire mill project. And when T&H Lemont's mills are coupled with the high frequency solid-state welders and Alpha™ cutoffs from Thermatool Corp., these hi-speed precision platforms deliver the performance benchmark for the industry to beat. These are the systems of choice for automotive hydroforming, electrical conduit, structural and mechanical tube manufacturing applications.

Year-after-year, often running up to 1000 feet per minute, T&H Lemont installations the world over, turn hundreds of thousands of tons of carbon, stainless and/or super hi-strength (100 KSI plus) steel into millions of feet of pipe and tubing of superior structural integrity and strength. And while we offer a broad range in mill sizes, we inventory only the most primary pieces of any platform, allowing us to customize your application from a menu of our proven building blocks for standardized subsystems. These one-of-a-kind configurations (low/high D/t

ratios, high strength materials, hi-speed, special finish, etc) are designed and delivered with the same fast turn around and protective warranties that equal or surpass industry norms for most standard size systems.

You should expect more. Exceeding customer expectations was the evolutionary driver behind acquisitions that created T&H Lemont. This foundation, with the complement of our place in the ThermoTool family of companies, has collectively pioneered many technologies that drive the tube and pipe industry. And we approach each project knowing that what we did on the last project is just history, and that what we'll do for you tomorrow, will be apart of your future and our legacy.

### Laser & TIG Welded Tube & Pipe Mill Systems



Designed for the most precise fabrication of stainless steel and other precious metals such as copper, brass, platinum, titanium and even gold, T&H Lemont Laser and TIG mills provide the tightest tolerances for production. The mandate behind our unparalleled design is, in a word, control. Control over everything that can go wrong. With inline bright annealing systems and in-line weld operations; potential contamination of the seam is virtually eliminated.

A multi-cathode TIG welder provides simultaneous, constant and controlled arcs. Air driven jaw assemblies deliver near-zero distortion in end cuts, all managed and monitored with multi-section digital electronic controls. Our unique sequential welding configuration means increased mill throughput and performance by combining a power source with a high frequency arc that initiates the weld and shielding gas flow, all aimed at optimum consistency and integrity of the seam.

With all this rigid science at work, you still have the range and flexibility of varied production specifications such as four and six roll water cooled weldboxes with guide shoe capabilities all geared towards maximum versatility in product yield.

T&H Lemont understands the need for absolute control of your mill to ensure consistent and uncompromised quality of your product – the core upon which you stake your reputation and the same on which we build ours. No other mill system on the market delivers the weld integrity and tight tolerances of our Laser & TIG mills. And when you are working with expensive raw materials, yield and utilization is at an equal premium with output.

Combined with the uniform interfaces of our individual mill components and ancillary equipment, we are the only mill manufacturer to offer a complete system – providing you with a single source – and a single point of responsibility for every

point of every process, from conception to installation and training.

tube.02.02.11

Sizing mills

### Seam Orientation Stands



The T&H Lemont Seam Orientation Stand is designed to locate the weld seam in any location on the "mother" tube between the 10 o'clock and the 2 o'clock position.

The Seam Orientation Stand is located after the induction welding section to maintain the weld seam at top, dead center to insure proper annealing of the tube and pipe weld seam. Likewise, when forming shapes from a round tube or pipe, the Seam Orientation Stand can maintain the weld seam at top, dead center during the shaping process.

If the customer specification calls for the weld seam to be moved from top, dead center, the T&H Lemont Seam Orientation Stand can easily move and maintain the weld seam in the desired location.

tube.02.03.01

Tube forming equipment

### Model DH Roll Forming Machines



The Model DH Roll Forming Machines are designed specifically for panel type profiles where the forming is along longitudinal edges. The Model DH features two separate roll forming heads, one stationary and one which moves in and out. This feature allows exceptionally rapid adjustment for panels with different finished widths. Or the machine can be supplied with two rotating heads for the production of different profiles on the same machine. It is the ideal roll former for manufacturers of door panels, garage door panels, appliance housings, office equipment components and shelving. Designed for panel type profiles where forming is on the longitudinal edges, as in door panels, appliance housings and office equipment components, the Model DH can be adjusted exceptionally fast to economically accommodate varying finished widths.

### Model DP Mid-Low Production Roll Forming Machines

An economical machine where the inboard roll tooling is not frequently changed. The Model DP Mid-Low Production Roll Forming Machine has one profile mounted in the inboard roll position and one or two profiles mounted in the outboard roll position. An economical roll forming machine for mid-to-lower production requirements. The Model DP requires very little operator involvement. This is an easily maintained, exceptionally dependable roll forming machine that belongs in every plant.



### Model RA Roll Forming Machines

The new RA series offers the ultimate in roll forming capability with dependable, affordable quality, every step of the way.



### Model RU Universal Drive Roll Forming Machines

The Model RU Universal Drive Roll Forming Machine is a high speed, high quality machine driven to perfection by worm gear speed reducers through universal drive couplings. Capable of speeds up to 600 rpm, this is the ideal machine for the high production manufacturer of roll formed profiles, tubular shapes, metal building roofs, sidewall panels, and other similar products. The best in the business, the model RU is a high production roll former which is ideal for use in the production of roll-formed welded tubular shapes, metal building roofs, sidewall panels, and similar applications.



### Model TP Series Roll Forming Machines

This economical Model TP Series Roll Forming machine offers two inboard roll positions and one or two outboard roll positions, making it ideal for production facilities requiring a dependable, affordable machine for dedicated manufacturing. Similar to the DP, this is a three-plate roll former with two inboard roll positions and one or two outboard roll positions.



tube.02.05.02

Straightening

### Straightener / Turkshead Units

The (4) roll turkshead assembly is a steel fabricated unit designed for straightening round tubing.

The (8) eight roll turkshead assembly is a steel fabricated unit designed for straightening round, square and rectangle tubing.



tube.02.05.21

Horizontal strip accumulators

### Horizontal Strip Accumulators

Autonomy and simplicity are critical at the starting gate to the mill. T&H Lemont puts these needs at the forefront of our innovation and construction of strip accumulators that translates into one important benefit — reliability. The integrated programmable controllers maintain the critical factors for strip processing and feed timing.



Maximum strip storage, combined with separate and unrelated fill/pull out speeds allow for the loading and end welding of new feed coils, independent of the mill. Strip feeds on the OD and pulls independently on the ID. The strip accumulator can fill at high speeds even if the mill is stopped and just as equally feed the mill continuously with no pause, should you experience a temporary delay in reload or end welding. Made with the most rugged environments in mind — T&H Lemont accumulators offer more than smooth operations for your operator, but a vacation from relentless repair and maintenance that shows up on your bottom line in a lowered cost of ownership almost immediately.

To be blunt, at the front of the line, the consistent and continuous operation of your mill depends on the opposite. You must have the flexibility to handle speed fluctuations and complete mill stops, without disrupting the pace and flow of forming, welding, cutting and bundling of the rest of your process.

No other strip accumulator gives you this smooth operational autonomy than that from T&H Lemont. We sought out the best technology possible to yield the most important benefit for this equipment.

An integrated programmable controller determines the strip processing and feed timing, not the operator. And the simplicity of operation is built into every element



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of our design.

Maximum strip storage along with separate fill/pull speed controls allows for loading and splicing of new coils independent of the speed and timing of the line, even continuing to load at a rapid pace while the rest of the mill is stopped.

The delicate flexibilities of our strip accumulators do not surrender precision over time. Ours are built with the most rugged of mill environments in mind, and their performance on the day you install them is assured for many years to come. Ease of maintenance and repair is an additional relief for more than just the operator, but for maintenance all the way up to the boardroom and to those that watch the bottom line – T&H Lemont strip accumulators are synonymous with the start of worry-free mill operations.

tube.04.05

Rolling

### Roll Form Tooling

The manufacture of tube and pipe is all about quality – quality materials, quality machinery, quality tools. T&H Lemont's mill rolls for the tube and pipe industry are just that kind of quality product. High quality, dependable tools that you use to manufacture the highest quality tube and pipe. That you use to succeed. And anything short of all out success is a bad compromise. At T&H Lemont, every Mill Roll is the sum of:



Advanced CAD/CAM engineering to your exact specifications and application requirements  
All manufacturing and processing steps accompanied by corresponding quality control procedures and certifications  
Uncompromising engineering tests  
Our unparalleled expertise in materials and processes to achieve optimal results  
Our nearly half century of experience and proven expertise in providing the best in the business

Please contact us for more information on our Roll Form Tooling operation and let us help you with all your tube and pipe fabrication equipment needs.

tube.09.01.01

Machinery and equipment



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### Tube Dedimplers

T&H Lemont's automatic tube dedimplers quickly and efficiently remove all indentations from the cut ends of tubes and pipes up to 5 inches in diameter. We can incorporate our tube dedimplers into any of our mill systems, or retrofit your existing mill system to produce complete, dependable pipe producing solutions.



### Teknor Apex Company



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Stand	Hall 09, E06-1



### Who We Are

Teknor Apex Company is a privately held company founded in 1924 and headquartered in Pawtucket, Rhode Island, USA. We manufacture for our eight divisions in 9 locations in the U.S., one in Singapore, and one in China.

We are a diversified material science company using complementary technologies to serve common markets. The following divisions have been the logical evolution of our growth:



Vinyl

Thermoplastic Elastomer

Engineered Thermoplastics

Bioplastics

Teknor Color Company

Chemical

Specialty Compounding

Consumer Products

**Product Overview**

Teknor Apex Company

wire.04.07.01 Thermoplastic materials

wire.04.07.01.01 Flameretardant, halogenfree thermoplastic materials

**Product Details**

Teknor Apex Company

wire.04.07.01 Thermoplastic materials

**Thermoplastic Elastomers**

The Thermoplastic Elastomer (TPE) Division of Teknor Apex is a global leader in compounding, supplying the broadest range of TPE resins from an independent compounder. Our capabilities include polyolefin, styrenic, and vulcanizate chemistries, allowing us to recommend the appropriate formulation to fit the requirements of your end-use application. We provide our customers with a complete solution, customized resins backed by experienced technical and engineering support



wire.04.07.01.01

Flameretardant, halogenfree thermoplastic materials

**FireGUARD® Flame-Retardant Plenum Cable Compounds**

Proven performance has made FireGUARD® plenum compounds the ultimate jacketing and insulation material for data and telecommunications applications including MPP, CMP, CL2P, CL3P, FPLP, OFNP and coaxial cables.



Easily extruded in standard equipment used for PVC, FireGUARD® compounds are cost and performance alternatives to fluoropolymers. Innovative formulations include: lead and bromine free solutions; low smoke, fire-resistant materials optimized for use as optical fiber buffer compounds; thin wall insulation and sunlight resistant jacketing.

**Wire and Cable**

In 1946, when the old reliable rubber wire and cable insulation and jacketing began to give way to the promise of plastics, Teknor Apex was at the heart of the metamorphous. And today, in the face of escalating demands of emerging technologies, Teknor Apex continues to raise the benchmarks for extrusion and molding compounds for the wire and cable industry - through the integration of cost-effective products that provide superior performance and excellent processing characteristics.



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## Tri Star Metals, LLC



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Stand	Hall 11, J42

### About Us

Tri Star Metals is a value-adding extension of our clients' purchasing departments. We leverage our financial strength, specialty metals expertise, and unwavering customer commitment to create innovative procurement solutions for consumers of long products. We match consumer requirements with the best global resources to create partnerships that enable customers and vendors to reach strategic goals.

Integrity and ethical conduct are the foundations of Tri Star Metals and guide all interaction in the marketplace and the community. Our greatest strength is our employees and we attract, retain, and promote the highest quality people in the industry.

### Product Overview

Tri Star Metals, LLC

wire.04.04.10      Stainless steel



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## TRU-CUT SAW Inc.

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Stand	Hall 06, C29-05



### A leading manufacturer in sawing technology

Tru-Cut Saw manufactures circular saws with CARBIDE and CERMET for high production sawing machines cutting Tube & Pipes along with solid bars, plates, billets for the seamless pipe industry or forging facilities. Our product line ranges from 100mm to 1,828mm. We are capabilities of PVD coating up to 1,250mm in house. Tru-Cut Saw is the only saw blade manufacturer in the U.S. with our own PVD coating chambers—allowing us to tightly control coating quality, uniformity and adjustments for individual customer applications.

Advantages: > ferrous

- High cutting speeds & feed rate.
- PVD coated for longer life.
- Repairable or throwaway type.
- Minimum burrs, no dimples

Applications: > ferrous

- Stationary recut or flying cut off machines with single or multiple sawing heads.
- Forging / Steel mills



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- Tube & Pipe manufacturers.
- Plate & Rail cutting.
- Rolling mills.
- Structural steel.

Advantages: >non ferrous

- High cutting speeds & feed rate.
- PVD coated for longer life.
- Repairable or throwaway type.
- Minimum burrs, no dimples

**Exhibitor profile** TRU-CUT SAW Inc.

Number of employees	20-49
Business volume	-
Export quota	-
Founding year	
Business segment	Process technology tools and auxiliaries

**Company Contacts** TRU-CUT SAW Inc.

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**Company News**

TRU-CUT SAW Inc.

**11/18/2015 Tru-Cut Saw will display their newest nanocomposite coated saw blades offering up to 50% increase in service life over AlTiN.**

TUBE 2016 DUSSELDORF, GERMANY

Tru-Cut Saw will display their newest nanocomposite coated saw blades offering up to 50% increase in service life over AlTiN.



Ideal for flying cutoff saws...

BRUNSWICK, OH –Tru-Cut Saw, has developed a new nanocomposite PVD coating that dramatically increases blade life in circular ferrous and non-ferrous sawing applications.

The new coating, called ViTA-Nano, was developed by Tru-Cut's ICO Surface Coatings Division. The coating is a proprietary combination of titanium, aluminum, aluminum-titanium, chrome and silicon. Unlike multi-layer coatings in which each material is deposited consecutively, with ViTA-Nano, all cathodes in the PVD chamber are turned on at once – resulting in a more cohesive, harder coating. Saw blades coated with this material will run a minimum of 30 - 50% faster with less scrap and increased production rates compared to AlTiN coatings.

Richard Otter, VP Sales for Tru-Cut Saw & ICO Surface Coatings said, "ViTA-Nano blades are ideal for flying saw machines, re-cut machines and high production sawing machines. Users will see immediate cost benefits in longer blade life when sawing with the ViTA-Nano coating."

Oil country tube sawing comparison

At one of Tru-Cut's customer plants, a cutting test compared an AlTiN saw blade with the ViTA-Nano coated blade:

Material: 24" x 24" x 0.286" thick, X-70 Oil Country Tubular Goods Steel

Yield Strength: 70 ksi

Tensile Strength: 82 ksi

Test Results:

AlTiN: 180 cuts (3,879 sq. in.) before tooth failure

ViTA-Nano (3-blades tested)

232 cuts (4,999) 30% increase



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246 cuts (5301 sq. in.) 37% increase

264 cuts (5,689 sq. in.) 47% increase

VITA-Nano blades are much better than AlTiN for sawing hardened steels, cast iron, aluminum and super alloys. The blades withstand 33% greater temperatures and last longer because blade edges are protected from steel build-up (which reduces tool life) for a longer period of time. Tru-Cut recommends dry cutting with VITA-Nano blades to further reduce coolant costs.

VITA-Nano characteristics compared with AlTiN

VITA-Nano AlTiN

Hardness (HV) 4500 3600

Friction Coefficient 0.45 0.5

Thickness 1-4 um 1-4 um

Max working temp 1200°C (2200°F) 900°C (1650°F)

Tru-Cut Saw manufactures saw blades for all types of cutting applications from simple hand cutoff machines to high production flying cutoff machines. Blades are designed for all sawing applications in ferrous and non-ferrous materials. Sizes range from 200mm to over 3-meters. Tru-Cut is the only U.S. saw manufacturer with its own in-house PVD coating chambers.

The company also sells the Tru-Cut 16" (400mm) Dry Cut Metal Saw designed for cutting tubular, solid, angled and other shapes.

Tru-Cut Saw's ICO Surface Coatings Division offers PVD coating and re-coating services for all types of new and used saw blades, tools and wear parts. Equipped with two state-of-the-art coating chambers and carousels, Tru-Cut & ICO offers both standard and special surface treatments. Standard coatings are: CrN, TiN, TiCN, AlTiN-ML, AlTiCrN and TiAlCN Phoenix.™ Special and tool-specific coatings can be individually tailored to specific customer requirements. Coating chambers can handle part sizes up to 1250 mm OD x 700mm.

For more information on Tru-Cut Saw Inc. and ICO Coating Services please visit [www.trucutsaw.com](http://www.trucutsaw.com) and [www.icosurfacecoatings.com](http://www.icosurfacecoatings.com)

## Product Overview

TRU-CUT SAW Inc.

tube.04.07.01

Saw blades, polishing wheels etc.



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Internationale Fachmessen  
www.wire.de / www.Tube.de

## Product Details

TRU-CUT SAW Inc.

tube.04.07.01

Saw blades, polishing wheels etc.

### Carbide Tipped Saw Blades

"Aggressor™" Series

Tru-Cut's High Performance Carbide tipped saw blades for ferrous or non-ferrous cutting.



These carbide tipped saw blades cut steel bars five times faster than a bandsaw. Designed to cut low to medium alloy steels. Superior finish, longer life and faster cutting times.

Machines:

Stationary and flying cut off saws (single and multi-cut)

Applications:

Ferrous: Bars, Billets, Tube, Pipe and Plate

Non-Ferrous: Bars, Billets, Tube, Pipe, Plate,

Extrusions and Shapes

Cutting speeds:

SFPM 300 – 1,500 (ferrous)

SFPM 6,000 – 10,000 (non-ferrous)

### Cermet Tipped Saw Blades

Phantom Series—Precision Sawing

Tru-Cut cermet tipped saws are ideal for ferrous or non-ferrous cutting and are designed to cut low to medium carbon steels.



They have a thin kerf to reduce waste and provide a superior finish, longer life and faster cutting times. Our cermet saws cut steel bars three to five times faster than a bandsaw machine.

Tru-Cut cermet inserts have a high abrasive resistance compared to standard carbide tipped saws.

Machines:

Stationary saws (single and multi-cut)



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Applications:

Ferrous: Bars, Billets, Tube, Pipe and Plate

Non-Ferrous: Bars, Billets, Tube, Pipe, Plate,

Extrusions and Shapes

Cutting speeds:

SFPM 300 – 1,500 (ferrous)

SFPM 6,000 – 10,000 (non ferrous)

PVD Coatings:

CrN, TiN, TiCN, AlTiN, AlTiN-XL, AlTiCN, AlTiCrN

### Friction & Hot Saws

Developed for industrial applications and wear resistant under the most severe cutting conditions, our friction and hot saw blades have all the attributes necessary to improve your cutting operation.



Our friction and hot saw blades are designed for cutting carbon steel in a variety of sizes and shapes. They are used in flying or stationary sawing machines for tube production lines or for cutting grating and other profiles. Optimized for an extra long blade life and no cracking diameters are available up to 100" (2500mm).

Friction saws are used on flying or stationary cutting of pipes and profiles of carbon steel with hardnesses ranging from 300 and 600 N/mm<sup>2</sup>.

Machines:

Stationary and flying cut off saws (single and multi-cut)

Abbey Etna, Dreistern, Mannesmann, Oto Mills,

MTM and Thermatool

Applications:

Ferrous: Tube, Pipe and Shapes

PVD Coatings:

Available up to 1270mm: CrN, TiN, TiCN, AlTiN, AlTiN-XL, AlTiCN, AlTiCrN

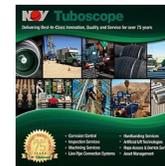


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### Tuboscope A Division of NOV. LP



Address	2835 Holmes Road 77051 Houston, TX USA
Phone	+1 713 7995450
Fax	+1 713 7995452
Internet address	www.nov.com
E-Mail	mill.ndtsystems@nov.com
Stand	Hall 06, G30



### About Us

For more than 75 years, NOV Tuboscope has continued to raise the global standard with a comprehensive and

integrated suite of value-added solutions that maximize

the life cycle of your assets helping you to drill safer

and more efficiently, increase production and decrease

downtime. With a worldwide infrastructure second to

none, we offer the newest generation technologies and

techniques for Inspection, Corrosion Control, Hardbanding,

Machining, Line Pipe Connection Systems, Artificial Lift



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Technologies, Rope Access & Derrick Services, and  
Asset Management.

Tuboscope™ has built its reputation on being innovative, safety  
conscious and solution driven. We are well positioned  
to work with you, when and where you need us.

www.tuboscope.com

**Product Overview**

Tuboscope A Division of NOV. LP

tube.06.02.04      Sonic and ultrasonic testing

**Product Details**

Tuboscope A Division of NOV. LP

tube.06.02.04      Sonic and ultrasonic testing

**Hawk Test System: XLD Test System**

The NOV Tuboscope original line of test units were comprised of two lines of equipment, the Hawk system and the XLD lineup. Both styles have unique characteristics suited for specific applications. The original Hawk tester covers a broad range of sizes and functionality, while the XLD specializes in Drill Pipe testing and larger casing sizes. XLD Test System Designed and manufactured by Gator Hawk, the XLD test system is compact, fast and reliable. Originally designed to allow testing of drill pipe connections and tool joints, the XLD system is capable of testing all size ranges of OCTG from 1" thru 20" pipe sizes. Testing can be done with either water or gas. Only a 2 person crew is required for 24 hour operations. Compact size allows for rapid mobilization to anywhere in the world. Rig up time is less than 30 minutes Able to keep up with running times of 600 - 1000 ft per hour allowing for approximately one minute per connection test. Low test fluid volumes provide



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for safety during testing operations No tools to lose downhole No damage to  
Internal Coatings

**Ultrasonic (FLUT)**



For detection of longitudinal, transverse, and oblique type defects, a shear wave technique is used by propagating ultrasonic sound into the pipe wall as it passes through the TRUSCOPE inspection station. Four rotating shoes scan the pipe length for signals from such defects as but not limited to internal and external seams, laps, cracks, and other type defects.

For detection of wall thinning areas and actual wall measurements, a compression wave ultrasonic sounds propagates from the external surface to the internal surface. Four rotating shoes scan the pipe length providing optional wall thickness data and wall mapping for a complete image of the pipe wall.

**Ultra Clean Technologies Corp.**



Address	1274 Highway 77 08302 Bridgeton, NJ USA
Phone	+1 856 451-2176
Fax	+1 856 453-4975
Internet address	www.ultraclean.tech.com
E-Mail	evanalphen@ultraclean.tech.com
Stand	Hall 06, G17



**Ultraclean, Your partner in Contamination Control**

Ultraclean Technologies is an American based company that has become a specialist in manufacturing



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products to clean and seal any hose or tube assembly up to a DN50. Further Ultraclean offers cleanings products up to 120mm inside diameter lines with a unique and very efficient cleaning method. The Ultraclean systems clean and seal hose and tube assemblies towards an ISO 18/16/13 cleanliness level. The Ultraclean products are used by many production and assembly plant facilities who work with OR manufacture hydraulic hose and/or tube assemblies.

Ultraclean Technologies sells throughout the world via various logistic locations to keep the cost under control and remain a competitive position in the hydraulic markets.

Ultraclean Technologies organizes many in house demonstrations and webinars to educate and instruct how you can make clean and profitable hose and/or tube assemblies.

We are looking forward to welcome you at our booth in hall 6H50 to see a full demonstration.

Warm regards,

The Ultraclean Team.

Exhibitor profile		Ultra Clean Technologies Corp.
Number of employees	20-49	
Business volume	1-9 Mio US \$	
Export quota	max. 25%	
Founding year	1992	
Business segment		



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**Company Contacts** Ultra Clean Technologies Corp.

Department/Name	Address
Eric van Alphen	Ultraclean Technologies Corp. USA-NJ 08302 Bridgeton, NJ 08302 Phone: +1-484-885-9498 Fax: +1-856-453-4975 evanalphen@ultraclean-tech.com

**Product Overview** Ultra Clean Technologies Corp.

tube.02.05.20	Cleaning
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**Product Details** Ultra Clean Technologies Corp.

tube.02.05.20	Cleaning
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**Hose Nozzles**

Hose nozzles are inserted into the inside diameter (ID) of the hose. Hose nozzles also work on pipe, heavy walled tubing and many coupling configurations. It is our most popular style nozzle.

Hose nozzles have the "UC-H" designation and are blue in color for easy identification.



**UC-PVS-III**

The Projectile Verification System ensures that no projectile is left in a hose, tube or pipe! The system is designed for various applications but is most beneficial in high-volume fabrication facilities where speed and efficiency are a priority. The system provides peace-of-mind that each line is cleaned according to specifications and that each projectile has successfully exited the assembly. Three cleaning modes allow specific cleaning for various levels of contamination.



The Projectile Verification System (PVS) is comprised of two units: the Control Station (p/n: UC-CS) and the Containment Barrel (p/n: UC-CB)1. These two



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units are used in conjunction with the Ultra Clean Bench Mount Launcher (p/n: UC-BM1.25) and/or the Ultra Clean PVS Launcher (p/n: UC-HL-PVS) to clean hoses, tubes, or pipe. The control station is the "brain" of the unit. It controls the air-flow and counts the projectiles & faults. The Containment Barrel is the receptacle. It has a banner sensor in the chute assembly that triggers the control station to turn off the air once the projectile has entered the barrel.

### Ultra Clean Projectiles

Universal application for cleaning hose, tube, pipe and assemblies. Removes fine particles of loose contamination and can also be used for product purging.

The unique cell structure of this foam allows the Ultra Clean projectiles to work with both coupling and plain-end applications.

Also available in Bulk Quantities.



### Ultraflex Power Technologies

Address	158-2, Remington Blvd. 11779 New York USA
Phone	+1 631 4676814
Fax	+1 631 9804065
Internet address	www.ultraflexpower.com
E-Mail	eusales@ultraflexpower.com
Stand	Hall 06, J11



#### The Ultraflex Power Technologies Advantage

Recognized as an Inc. 500 Fastest Growing Company, Ultraflex Power Technologies provides customer-



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focused solutions for induction heating, melting, and casting applications worldwide. Implementing an Ultraflex induction solution can help you reduce manufacturing costs, increase energy efficiency, improve safety, and meet your lean manufacturing objectives.

Ultraflex Power Technologies offers the most advanced and innovative digitally controlled induction heating technology in the industry. The flexible output circuits and adaptive tuning power supplies feature the widest load matching and frequency ranges on the market. This ensures that our customers' varying load conditions can be precisely matched to the equipment, which maximizes operating efficiency and minimizes process deviation. Ultraflex products have been designed and engineered with the customer in mind allowing for simple operation and finite process control. Ultraflex power supplies are rated according to the RF output power, not the input line power, so you are assured that full power can be delivered to the induction coil.

The compact modular and flexible systems are suitable for a wide variety of induction heating, casting and melting applications. Systems can be configured with remote heat stations to optimize footprint requirements and work-cell layout. The flexible systems can easily be integrated into manual assembly processes, or incorporated into a fully automated production line. Ultraflex solutions include standard induction heating systems or complete turnkey systems.

Ultraflex products are designed and manufactured in ISO 9001 facilities, are CE marked, and meet current WEEE, RoHS and REACH directives. Products meet or exceed regulations for safe operation. Additional certifications, such as UL and CSA, are available on request.

Ultraflex equipment incorporates many advanced diagnostic features and modular design advantages, which optimizes serviceability and maintainability of the equipment. Our service technicians can effectively resolve most field issues over the phone utilizing remote diagnostics to provide effective service and customer support, but are also available to support field requirements when needed. Ultraflex offers technical service and support with locations in USA (New York and California), Europe (Bulgaria), China, and India, with additional distributors and partners worldwide.

For OEM customers, Ultraflex Power Technologies offers full systems, power supplies, modules, or components to best meet your requirements for an integrated equipment solution. Ultraflex offers extensive technical expertise with



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power electronics design including development of custom Induction Heating, Plasma, Xenon Light Generators, Series and Parallel Inverters, AC-DC and DC applications, conventional and high frequency power supplies, and battery chargers.

With over 100 years of combined engineering and application expertise, Ultraflex has developed innovative solutions for our customers' most demanding applications. Above all, the team at Ultraflex Power Technologies will help you find solutions for your complex heating applications and manufacturing system requirements.

**Product Overview**

Ultraflex Power Technologies

tube.02.03.08 Soldering equipment

**Product Details**

Ultraflex Power Technologies

tube.02.03.08 Soldering equipment

**UltraHeat Mini – 2 kW Induction Heating Power Supplies**

Low-power 2 kW induction heating system with water-cooled and air-cooled options.

Advanced, cost-effective induction heating power supplies utilizing the latest switching power supply technology.

Adaptive digital phase control providing very efficient operation in a wide frequency range.

Reliable, modular system, easy to maintain and service.

Flexible, wide range load impedance matching by utilizing multiple transformer ratios and configurable tank capacitance.

Configured to operate with remote Heat Stations.

Durable design, loaded with safety and diagnostics features.



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**UltraMelt 10/15 Induction Melting Furnace**

Induction Melting Furnace for gold, platinum, stainless steel and other precious metals.

Efficient circuit with low energy consumption.

Reliable, easy to maintain and service.

Easy to Install and simple to operate.



**UltraMelt EC – Tilting Induction Melting Furnace**

Tilting Induction Melting Furnace for larger volume of metals, makes pouring your molten metal a safe and simple process.

Digital control panel with status messages and diagnostics features.

Efficient circuit with low energy consumption.

Reliable, easy to maintain and service.

Easy to Install and simple to operate.



**Universal Punch Corp.**

Address	4001 W. MacArthur Blvd. 92704 Santa Ana, CA USA
Phone	+1 714 5564488
Fax	+1 714 5566314
Internet address	www.universalpunch.com
E-Mail	sales@universalpunch.com
Stand	Hall 15, H13



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Internationale Fachmessen  
www.wire.de / www.Tube.de



### Universal Punch Corporation

An ISO 9001:2000 registered company by UL DQS Inc., has been a world class manufacturer of the highest quality header tooling, medical instruments and special gaging for over 40 years. We strive to continually create new products and always be attentive to the needs of our customers. As part of our continuing commitment to providing precision and excellence in all of our products we have expanded into a state of the art 65,000sq.ft. facility. Our spacious new plant is equipped with increased machining capacity, expanded heat treating facilities, calibration, inspection laboratory and clean rooms. Our laboratory ensures that all products sold conform to specifications for ANSI or ISO standards. All measuring equipment and gaging masters are directly traceable to N.I.S.T. All certification processes and procedures conform to ISO/IEC Guide 17025.

#### Exhibitor profile Universal Punch Corp.

Number of employees	50-99
Business volume	–
Export quota	max. 50%
Founding year	1974
Business segment	Measuring and control technology, Specialist areas

#### Product Overview Universal Punch Corp.

wire.05.06	Equipment for measuring the diameter, width, height and length
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#### Product Details

Universal Punch Corp.

wire.05.06	Equipment for measuring the diameter, width, height and length
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#### 9300 Series, TORSIONAL TESTING FIXTURES

FOR FASTENER TORSIONAL STRENGTH TESTING (ANSI/ASME, DIN, & JIS STANDARDS)

Universal offers three fixtures to choose from that meet the performance requirements for tapping and machine screws covered by ANSI/ASME, Aerospace, Automotive, and ISO standards. Universal can provide all of the testing attachments and accessories that are needed to perform these tests, including standard or electronic torque wrenches for digital output of data.



#### 9455 Series, NAS PROTRUSION HEIGHT GAGES

FOR MEASURING FASTENER HEAD HEIGHTS USE NATIONAL AEROSPACE STANDARDS

Provides a fast, accurate, and repeatable means to measure fasteners and related products. Designed to be used in harsh manufacturing environments. Steel parts are hard chrome plated for durability. This multipurpose gaging fixture can be set up to measure all types of aerospace and special fasteners. The interchangeable gaging bushings are offered in both inch and metric sizes, certified and conforming to ANSI/ASME, ISO, and NAS standards. The gaging bushings are made from high speed steel, heat treated, thermally stabilized, and hard chrome plated for wear. Gaging bushing hole sizes are measured by the "height over ball" method and calculated to the actual sizes.





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### 9475 Series, DIGITAL FASTNER LENGTH GAGES

FOR MEASURING NUT TYPE PRODUCTS  
(ANSI/ASME, DIN, JIS & ISO STANDARD)

These Digital Length Gages are lightweight yet durable units that provide a fast, accurate, and repeatable means to measure fasteners and related products. The slide rod assembly ensures close alignment throughout the entire measuring range. This system concentrates force onto supported bearing surfaces, thereby minimizing any load transfer to the scale unit and increasing its service life. The length gage is designed for the shop floor or inspection room use. This system offers an alternative to calipers, scales, and other devices and has SPC output capability.



### Vulcan Tool Corporation

Address	730, Lorain Avenue, P.O. Box 1305 45410 Dayton, OH USA
Phone	+1 937 2536194
Fax	+1 937 2531062
Internet address	www.vulcancut.com
E-Mail	info@vulcancut.com
Stand	Hall 06, C29-03



#### Vulcan Tools

Vulcan has been helping our customers solve problems for over 90 years. Some of Vulcan's past customers include Budd, Hughes, Formet, Modatek, Metalsa, Tower.



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### Product Overview

Vulcan Tool Corporation

tube.02.05.03 Sawing, separating, laser cutting

### Product Details

Vulcan Tool Corporation

tube.02.05.03 Sawing, separating, laser cutting

### BREHM HIGH SPEED AUTOMATIC TUBE CUTTER

Featuring Brehm Supported Shear Technology

High Production – High Speed Cut-off.

Fully Automatic.

No material loss between cut pieces.

Commercially burr-free, with little to no distortion.

Cuts length to tolerances in thousandths.

Each model cuts sizes up to the specified OD

Standard machine cuts to length from under 1" up to 24".

High speed cut-off of tubing ranging from 1/2" OD up to 6" OD.

Brehm model sizes include: 2-3/4", 3-1/2", 4-1/2", and 6" size.



### End Trimming

Horizontal style dies are used when the part length or shape is not feasible for a standard die. For example: Long Hydroformed frame parts or bent exhaust components.

Horizontal dies can be complete machines with their own electric, hydraulic and pneumatic systems. These machines are supplied with state of the art electronics and built to our customers specifications.

Brehm "Shimmy" Dies can be custom built to fit almost any application. Shown above in a complete manufacturing cell.

Horizontal type dies can also be punch press driven which may become more economical for your application. Vertical dies can also be used with your existing hydraulic or mechanical press for shorter tubular components or drawn





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stampings.

### RINGMASTER HIGH SPEED AUTOMATIC TUBE CUTTER



High Production – High Speed Cut-off

Fully Automatic

No material loss between cut pieces

Commercially burr-free, with little to no distortion

Cuts length to tolerances in thousandths

High speed cut-off of tubing ranging from 1" OD up to 4" OD

Adjustable for cutting Lengths in most diameters from 2-1/2 times the wall thickness up to 10"

Capable of cutting up to 1.9 square inches of mild steel at 1500 psi

### Wardwell Braiding Co.



Address	High Street 1211 02863 Central Falls - Rhode Island USA
Phone	+1 401 7248800
Fax	+1 401 7232690
Internet address	www.wardwell.com
E-Mail	serviceinfo@wardwell.com
Stand	Hall 09, B33



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### Company Profile



Wardwell was founded in 1911 by industrialist Simon Willard Wardwell. A visionary thinker, he was awarded 38 patents for his braiding machine technology. For more than 100 years, the name Wardwell has been and remains synonymous with braiding.

The history of Wardwell Braiding Co. is closely intertwined with that of the braiding industry itself. Simon Wardwell passed away in 1921 and he would be impressed with the current role braiding plays in numerous products and applications.

The original high-speed braiding machine introduced by Wardwell to interlock textile yarns and wire filaments has morphed into an efficient and productive unit used to shield data, control and coaxial cables, and reinforce pressure hoses and electrical harnesses. Current machine configurations are as varied as the customers who use them. They must meet multiple safety and performance standards and include an array of standard and optional features – safety interlocking switches, core run-out sensor, empty bobbin detector, single end broken detector, central lubrication system, longitudinal and spiral taping units, programmable counters and many others.

The materials used for braiding have also changed over the years and now include bare and plated copper, aluminum, alloys, stainless steel, man-made fibers and Teflon coated yarns. Wardwell has built and sold more than 60,000 units over the life of the company and we can build one for your application.

Wardwell offers Maypole style machines in sizes of 3 -144 carriers and Rotary (deflector) style in 16 and 24 carriers. Standard design features include high speed operation, frequency motor drives a variety of stand sizes or separate payoff and take-up up to 2000 mm. Whatever your need, the industry name, synonymous with braiding, possesses the know-how and the product to meet your needs. The line of semi-automatic winders (model 905) and payoffs are the perfect complement to your braiding operation.



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### Exhibitor profile

Wardwell Braiding Co.

Number of employees	–
Business volume	–
Export quota	–
Founding year	1911
Business segment	Raw materials, tubes and accessories

### Company Contacts

Wardwell Braiding Co.

Department/Name	Address
John Tomaz	Wardwell Braiding Co. USA-Central Falls Phone: +1 401 724 8800 Fax: +1 401 723 2690 sales@wardwell.com

### Product Overview

Wardwell Braiding Co.

wire.01.09.03	Stranding
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### Product Details

Wardwell Braiding Co.

wire.01.09.03	Stranding
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#### Cable Braider

Wardwell will exhibit a CB1-24 Cable Braider in Hall 10, Stand 10 G 04. The CB1 series is a heavy-duty braider (tension range up to 120N) used to provide textile, wire or composite material shielding to offer protection from harsh environments, to add strength through reinforcement, or to provide strength and flexibility in the form of braided copper strapping and ground cable. It is available in 16, 24, 32, 36, 48 and 64 carriers.



The CB1-24 will be set up to run 32 ends of 0.3 mm bare copper on each of the 24 steel bobbins with a capacity of 520 cm<sup>3</sup>. It is equipped with:

- 6BXH Carriers for wire
- Motor-driven capstan with 965mm diameter x 180 mm flat face
- Variable speed motors and drive
- Electric stop motion
- Siemens HMI display with alphanumeric annunciation
- Complete sound reduction enclosure

Please come and visit us to experience our Complete Braiding Solutions.

#### Speedmaster

- Application
- Shielding for wire and cable products
- Configuration
- Vertical axis operation
- Capstan take-off system
- 16 and 24 carrier round braider constructions
- Integrated drive motor and control
- Wire carriers designed for high speed operation
- Integrated take-up and pay-off for up to 36" reels
- Head guard for safe operation





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- Take-up pressure roller
- Broken end detector
- Durable tubular steel frame construction
- Technical Features
- Core centralizing unit
- Individual carrier tension control
- Operating speeds:
  - 16 Carrier 150 rpm
  - 24 Carrier 100 rpm
- Gear driven take-off for accurate control
- Braid patterns (2 over 2, and 1 over 1)
- Inverter motor drive for controlled acceleration and deceleration
- Adjustable traverse mechanism to accommodate reel variation
- Digital production counter
- Options
- Empty bobbin detector
- Central lubrication system (recommended)
- Enhanced Sound Enclosure
- Keel lubricator (recommended)
- Advance display, variable speed
- Longitudinal tape applicator
- Motor driven capstan
- Double Deck Braiding System
- Specially coated parts for increased performance

**W8-901 RE-SPOOLING SYSTEM**

Application

Wardwell's new W8-901 re-spooling system was especially designed to wind super fine and flat ribbon wire on the spools of your choice.



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**Wasik Associates, Inc.**

Address	29 Diana Lane 01826-1500 Dracut, MA USA
Phone	+1 978 4549787
Fax	+1 978 4540499
Internet address	www.wasik.com
E-Mail	sales@wasik.com
Stand	Hall 09, E10-4



**about us**

Wasik Associates, Inc. is a leading manufacturer of Electron Beam Processing Equipment. Our company was established over 25 years ago to manufacture and service Electron Beam Crosslinking Systems for a variety of industries, such as wire, cable, film, foam, shrink tubing, tire, and medical. Wasik also designs and manufactures custom components and system upgrades.

We are committed in designing and manufacturing complete turn-key Crosslinking Systems of the highest quality. Our expertise includes self-shielding vaults, concrete vault designs, power supplies, accelerators, vacuum systems, high voltage cables and bushings, and the latest state-of-the-art customized computer control cabinets that allow you to visually monitor the operation of your system. We are also dedicated to providing superior service as well as training for your engineers and service personnel.

Our philosophy of simplicity of design and commitment to meet individual customer requirements has established us as a leader in electron beam processing technology.

Electron Beam Processing Systems are currently utilized in various industrial applications for Crosslinking Compounds, Polymerization, Sterilization, and Vulcanization.

Let Wasik Associates, Inc., help you with your electron beam processing needs by designing a custom crosslinking system today to meet your specific require-



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ments.

**Exhibitor profile** Wasik Associates, Inc.

Number of employees	20-49
Business volume	10-49 Mio US \$
Export quota	max. 75%
Founding year	1982
Business segment	Tube manufacturing machinery

**Company Contacts** Wasik Associates, Inc.

Department/Name	Address
Bob Ricciardi	Wasik Associates, Inc. USA-Dracut, MA 01826 Phone: +1-978 4 54 97 87 Fax: +1-978 4 54 04 99 bob@wasik.com
Tom Wasik	Phone: +1 978-454-9787 tom@wasik.com

**Product Overview** Wasik Associates, Inc.

wire.01.12.12	Crosslinking equipment
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**Product Details** Wasik Associates, Inc.

wire.01.12.12	Crosslinking equipment
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**Accelerator**



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The Accelerator is the source of electrons for the processing system. Heating a tungsten filament to white-hot temperatures produces a cloud of electrons. Electrons are extracted from this cloud by a highly polished cup called the extraction electrode. This cup is energized to a voltage that is positive in relation to the negative electrons, thus causing the attraction of the electrons. The now free electrons are accelerated down the tube by a series of electrodes each having a more positive voltage potential than the previous electrode. The final energy of the electrons is determined by the total voltage potential of the entire accelerator tube.



**Control Cabinet**

This state-of-the-art Computer Control Cabinet monitors all the important functions of the system and allows the operator to control the system. The PC allows for a host of functions including limitless customization. The user-friendly operator interface is a touch screen monitor controlling the Windows-based software. Product recipes are stored on the hard drive along with data acquisition. The system can be networked into your production and/or quality control departments. An industrial microprocessor handles all control functions. Better control leads to better product, as well as greater reliability. The Waveform Generator, Vacuum Power Supply and Security System are usually located in this cabinet.



**Power Supply**

The Power Supply is composed of a three-phase step-up transformer with its magnetic cores electrically insulated at each secondary. Each secondary coil is connected to a rectifying circuit commonly known as a full wave doubler. This circuit converts the alternating current (AC) from each secondary coil into direct current (DC). The secondary coils, cores and rectifying circuits are grouped as triplets on each deck, one complete circuit for each phase. The voltage output of each circuit is connected in series to achieve the output of each deck. Each deck is then connected in series to create the total DC voltage output of the power supply. Wasik Associates manufactures three basic sizes of power supply: 25 kilowatt, 50 kilowatt, and 100 kilowatt. Within these sizes, power supplies range from





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three hundred thousand volts (300kV) to three million volts (3MV). The power supply provides a negative voltage to the electron beam accelerator; however they can be configured to a positive voltage if it is required.

### WCISA - Wire and Cable Industry Suppliers Association

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Phone	+1 330 8642122
Fax	+1 330 8645298
Internet address	www.wcisaonline.org
E-Mail	info@wcisaonline.org
Stand	Hall 09, D16-7



#### About us

WCISA® · Wire and Cable Industry Suppliers Association® - is a nonprofit corporate membership association with approximately 100 North American suppliers of machinery, materials and accessories used for making all types of wire and cable. 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.

#### Product Overview

WCISA - Wire and Cable Industry Suppliers...

wire.07.10

Associations



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### Weber & Scher Mfg. Co. Inc.

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Internet address	www.webscher.com
E-Mail	webscher@webscher.com
Stand	Hall 10, B71



#### Company History

In 1915, Weber & Scher Mfg. Co., Inc. was founded as a tool and die manufacturing company in Newark, New Jersey by Otto Weber and George Scher. Two (2) years later, George Scher purchased the interest of Otto Weber and became sole owner and President of the Company. In 1924, Weber & Scher Mfg. Co., Inc. expanded activities into design and building of special machinery. It was in the 1930's when the Company entered into the wire and cable field with George Scher's patented development of a range of machines for winding automobile ignition coils. Shortly thereafter, the Company entered into an agreement with General Cable Company for the exclusive supply of coil winding machines. During the 1940's, Weber & Scher Mfg. Co., Inc. was retained by the Western Electric Co. to develop and furnish the prototype equipment for producing the Alpeth (single corrugated shielding tape) and Stalpeth (dual corrugated shielding/armouring tape) composite cable sheath constructions. After adoption of the Alpeth and Stalpeth sheath construction by the Bell system, Weber & Scher Mfg. Co., Inc. furnished production equipment to the various Western Electric Co. manufacturing facilities. In the 1950's, Western Electric Co. made a license available to independent cable manufacturers for producing the Alpeth and Stalpeth sheath construction. Weber & Scher Mfg. Co., Inc., now almost totally devoted to the wire and cable industry, began to supply metal tape shielding and armouring equipment to independent cable manufacturers both in the United States and abroad. In 1957, J. William Scher, now Chairman and CEO,



joined the Company and developed a range of equipment for the wire and cable industry throughout the 1960's. In the 1970's, Weber & Scher Mfg. Co., Inc. expanded their sales activities throughout South America and into the Far East. In the early 1980's, Gregory K. Scher, now President and COO, and J. Douglas Scher, currently Vice President and CFO joined the Company. Early in the 1990's, Weber & Scher Mfg. Co., Inc. introduced a specialized system for producing continuous longitudinal seam welded smooth and corrugated metal tape sheath constructions using T.I.G. and H.F. induction welding technologies. In 1997, after 82 years in Newark, New Jersey, the Company relocated their operations into a new state of the art facility in Lebanon Borough, New Jersey. One year later, Weber & Scher Mfg. Co., Inc. entered into a global license agreement with Dussek Campbell, U.K. who was the pioneer in developing and furnishing cable filling and flooding systems. This provided Weber & Scher Mfg. Co., Inc. with the exclusive rights to manufacture the complete range of Dussek-Campbell production equipment. Recently, in 2003, Weber & Scher purchased the assets of AFA Industries from Watson International to become the leading worldwide supplier of cable filling and metal tape sheathing systems.

Exhibitor profile		Weber & Scher Mfg. Co. Inc.
Number of employees	–	
Business volume	–	
Export quota	–	
Founding year	1915	
Business segment	Raw materials, tubes and accessories	

Company Contacts		Weber & Scher Mfg. Co. Inc.
Department/Name	Address	
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**Company News** Weber & Scher Mfg. Co. Inc.

**11/13/2015 Celebrating 100 Year Anniversary**

At Wire 2016 Weber & Scher Mfg. Co., Inc., will be celebrating their 100 year anniversary. The company was established in 1915 by Mr. George Scher and has spanned over three generations to become one of the leading equipment suppliers to the wire and cable industry worldwide. The Weber & Scher production program includes metal shielding/armouring tape handling and splicing equipment as well as longitudinal forming equipment for smooth and corrugated metal tape, the technology of which was developed by Mr. George Scher in the early 1940's. In addition, evolving over the years, Weber & Scher has become a leading supplier of core wrap tape handling and applying equipment; concentric and eccentric binding and taping machines, Kevlar serving equipment; cable core pressure filling and flooding equipment for optical fiber cables and copper telephone cables; metal tape overlap seam bonding systems; multi-position tension controlled supply equipment, high speed rewind/repair equipment, belt wrap type capstans, linear belt type caterpillar capstans, vertical and horizontal cable accumulators, and cable pay-offs/take-ups. Within the last 20 years, Weber & Scher has become the leading supplier of welded metal tape sheathing systems. Our unique INDUCTOWELD and GATWELD technology and systems are being utilized for the continuous seam welded metal tape sheathing of power cables as well as coaxial cables, RF cables, and optical fiber cables. Corrugating systems are available for imparting either a helical or annular corrugation in the welded metal sheath.

**Product Overview** Weber & Scher Mfg. Co. Inc.

wire.01.06.01	Coiling, winding
wire.01.06.02	De-coiling, unwinding
wire.01.09.01	Cable filling
wire.01.09.02	Cable sheathing and insulating



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wire.01.09.03	Stranding
.....	
wire.01.09.06	Cable marking/printing machines
.....	
wire.01.09.10	Tape Application machinery, with/without auto-splicing
.....	
wire.01.11.03	Special-purpose welding machines
.....	
wire.01.12.06	Fibre optic manufacturing machinery

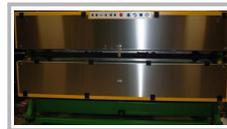
**Product Details**

Weber & Scher Mfg. Co. Inc.

wire.01.06.01      Coiling, winding

**Cable Pulling Caterpillar capstan**

A linear belt type caterpillar capstan specially designed for use in tandem with a RF cable outer conductor welding line where the cable construction is sensitive to outside compressive forces. The precise control of belt clamping pressure ensures an adequate pulling force without deforming the product.



wire.01.09.01      Cable filling

**Cable core two stage liquid/ semi-liquid filling**

A PLC controlled system that is designed for pressure filling copper telephone cable cores in two (2) stages as a single pass operation on line in tandem with cable sheathing. The machine consists of a storage reservoir and two (2) pressure filling sections, one for applying compound in the liquid state and the second in the semi-liquid state using an integral heat exchanger



wire.01.09.10      Tape Application machinery, with/without auto-splicing



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**Tapes up to 5" wide Corrugating Machine**



For corrugated tape sheath constructions to produce sinusoidal corrugations into the metal tape. The machine includes specially designed corrugating rolls that eliminate the potential for stretching and correspondingly, reducing the thickness of the metal tape which could impact the mechanical performance of the cable. Optional features include automatic tape guide system, safety enclosure, automatic lubrication system and corrugation gauging system.

**Wire & Cable Technology International**

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**Wire Forming Technology International**

Wire Forming Technology International is a quarterly publication covering the manufacture of springs, wire formed parts, wire mesh and rebar products and the materials, tooling, machinery and control systems for making those parts.

**Product Overview**

Wire & Cable Technology International

wire.07.09      Trade literature/Publishers

**Product Details**

Wire & Cable Technology International

wire.07.09

Trade literature/Publishers

**DIGITAL SUBSCRIPTION**

Produced by Wire & Cable Technology International magazine, the OVERVIEW newsletter provides professionals with global wire and cable business and market news.

This easy-to-read newsletter delivers the latest industry news and information straight to your desk or inbox. Published every three weeks, the OVERVIEW includes mergers, acquisitions, market reports, sales & earnings data, exclusive Wire & Cable Stock Indexes, contracts, new products, Events & Opportunities, and more.

Read some of our back issues and see what news you've missed.



**Wire Harness & Cable Connector**

If you are looking to reach wire and cable processors, distributors and users, the Wire Harness & Cable Connector is for you. The "magazine in a magazine" section is directed specifically to your best customers and prospects. This targeted section within the world's most respected wire and cable industry publication delivers a focused selling tool to the wire and cable processor, distributor and end-user. Wire Harness & Cable Connector circulation includes over 10,000 worldwide Wire Harness & Cable Technology International subscribers plus bonus distribution to Wire Processing Technology Expo and ATEexpo (Wire Processor) show registration lists.



**WireDrawing 101®**



Presented and developed by Roger N. Wright, Inc., Rexford, NY, USA and Wire & Cable Technology International magazine, the WireDrawing 101® short course is presented annually in various locations around the USA. The next offering is scheduled for:

May 5-6, 2014

Indianapolis, IN, USA

Early bird registration deadline April 25, 2014

This comprehensive course teaches the fundamentals of wire drawing to producers and users of both ferrous and nonferrous wire. The course is a practical and basic introduction to modern wire drawing engineering with an emphasis on questions, answers and everyday examples. The original course is now updated and features a unique workbook, with practical process design and trouble shooting exercises suitable for work-a-day formats and continuing study as well as timely "Special Presentations" by industry experts on the subjects of dies, lubricants and machinery.

The course runs from 8 AM until 5 PM on Monday and Tuesday, May 5-6, 2014, in Indianapolis, IN, USA. Each registration includes the course, reference materials, lunches, and coffee breaks as well as Dr. Wright's new book, Wire Technology

- Process Engineering and Metallurgy, published by Butterworth-Heinemann.

**Wire & Plastic Machinery Corp.**



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**About Us**

Wire & Plastic Machinery Corp. deals in machinery for the non-ferrous wire & cable industry, providing new, rebuilt and used machinery and complete plants for : Rod Breakdown Extruding Wire Drawing Bunching Stranding (tubular & rigid) Insulating Cabling (Planetary Twisters) Braiding Taping Coiling Jacketing Rewinding Fiber Optic



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### Buffering & Cable Making

Possessing highly skilled experienced staff of engineers, electricians, and mechanics. Our engineers have a broad base of experience in the wire and cable industry. We utilize CAD systems in the design & implementation of rebuilt machinery lines.

Equipment can be offered all new, completely rebuilt, in "as is" condition, or cleaned, painted, and operational.

We can select from a multi-million dollar inventory to provide you a system tailored to your specific requirements.

All rebuilt equipment has new state-of-the-art electrics to suit customer's electrical requirements and carries a full warranty.

Worldwide commissioning available.

### Product Overview

Wire & Plastic Machinery Corp.

wire.01.13 Used, rebuilt and reconditioned machinery (all machines from 01.01 to 01.12)

### Product Details

Wire & Plastic Machinery Corp.

wire.01.13 Used, rebuilt and reconditioned machinery (all machines from 01.01 to 01.12)

### Binder

Atlanta Works Aramid Server, 8 Position BIN069 Atlanta Works aramid yarn server, 8 Position with 5 HP DC motor with encoder, approx. 5:1 gear ratio, cops dimensions 6" x 9" (flexible), dual sets alligator type mechanical tension control (dial in precision control). Portable, on wheels. With Compumotor Parker RP240 operator station.



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### Braider

Rebuilt 16C Braider REB 16C BRD

REBUILT 16 CARRIER WARDWELL BRAIDER, Rebuilt 16 Carrier Wardwell Braider, set up on wire, 30"x16" frame, with Allen/Bradley AC inverter drive for speed control. New Parts including: new track plate, new upper carriers, new drive.



### Equipment for wire and cable manufacturing



Electrical Wire and Cable Bare Wire Power Wire Building Wire Armored Cable

Fiber Optic Cable Data and Communication Cable Control & Instrumentation Wire & Cable Automotive cable Braided Cable

### Wire Association International, Inc.

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## About Us

### Mission statement

To serve the technical, manufacturing and general business segments of the global wire and cable industry.

### Vision statement

To be the most valued, critical resource for the global wire and cable industry.

### Organization

The Wire Association International (WAI), Inc., founded in 1930, is a world-wide technical society for wire and cable industry professionals that is governed by volunteers from around the world. Based in Guilford, Connecticut, USA, WAI promotes, collects, and disseminates technical, manufacturing, and general business information to the ferrous, nonferrous, electrical, fiber optic, and fastener segments of the wire and cable industry.

To accomplish these objectives WAI sponsors exhibitions such as Interwire and Wire Expo, international technical conferences, educational workshops, courses and career development programs through the year. Our publications and technical products include Wire Journal International, the industry's leading monthly trade journal; The WAI Connection—a twice monthly e-newsletter for WAI members; the annual WJI Reference Guide; as well as a host of technical handbooks, reports and DVDs. WAI members are represented in more than 70 countries around the world.

### Educational alliances

WAI enjoys educational alliances with the Australasian Wire Industry Association (AWIA) and the Asociación Nacional de Transformadores de Acero, A.C. (ANTAAC).

## Product Overview

Wire Association International, Inc.

wire.07.10

Associations



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## Product Details

Wire Association International, Inc.

wire.07.10

Associations

### INTERWIRE

Dates: Convention: May 8-11, 2017 | Exhibits: May 9-11, 2017

Location: Georgia World Congress Center | Atlanta, Georgia, USA



### Background

Introduced in 1981, Interwire is the largest and longest-running wire and cable marketplace in the Americas. Hosted biennially, Interwire is an international trade event that includes exhibiting companies, speakers, and visitors from more than 50 countries. When industry professionals look for new wire and cable technology, supplies, and equipment they choose Interwire, the benchmark for wire business in the Americas.

Information is exchanged at Interwire. Machinery is debuted, reviewed, and sold at Interwire. And the promise of international networking on the Americas' stage continues to excite visitors to this vital forum. The show crosses dozens of vertical industries including automotive, construction, aerospace, transportation, and communications, among others. Interwire is held in conjunction with WAI's Annual Convention.

### WAI International Technical Conference

Date: 18-20 October, 2016

Location: Crowne Plaza Monterrey, Monterrey, Mexico



### Background

Each year WAI hosts an educational conference in a different country to unite industry experts from around the world who share the latest research findings in a particular segment of the wire and cable industry with their peers and colleagues. Usually scheduled over a two- to three-day period, the International Technical Conferences (ITC) include white paper presentations—which are typically offered with simultaneous translation—a tabletop exhibition, plant tours, guest tours, and social functions.

### Past locations

The 2011 International Technical Conference was held in Düsseldorf, Germany. Past ITC locations include: Turkey, India, the Czech Republic, Mexico, Italy,



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Canada, England, Poland, and Belgium.

### WAI Operations Summit & Wire Expo



Exhibit dates: Wednesday - Thursday, June 8-9, 2016  
Conference dates: Tuesday - Thursday, June 7-9, 2016  
Location: Mohegan Sun Casino Resort | Uncasville, CT, USA

#### Background

The WAI Operations Summit & Wire Expo is organized by WAI and is held biennially in a different industry hub within the U.S. for the wire and cable manufacturing industry. The event incorporates technical paper presentations, a comprehensive exhibit, on-floor production solutions demonstrations, networking activities, and more. Wire Expo originated in Boston in 1990 and has since been hosted in the following locations: Louisville, Kentucky; Detroit, Michigan; Charlotte, North Carolina; Cleveland, Ohio; Nashville, Tennessee; Chicago, Illinois; Pittsburgh, Pennsylvania; Milwaukee, Wisconsin; and Dallas, Texas.

## Wire Forming Technology International

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### About Us

Wire Forming Technology International

Wire Forming Technology International is a quarterly publication covering the manufacture of springs, wire formed parts, wire mesh and rebar products and the materials, tooling, machinery and control systems for making those parts.

### Product Overview

Wire Forming Technology International

wire.07.09

Trade literature/Publishers

### Product Details

Wire Forming Technology International

wire.07.09

Trade literature/Publishers

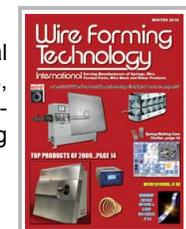
### Company Profiles

Wire Forming Technology International publishes Company Profiles annually in the Fall issue.



### Wire Forming Technology International

About Our Magazine Wire Forming Technology International is a quarterly publication covering the manufacture of springs, wire formed parts, wire mesh and rebar products and the materials, tooling, machinery and control systems for making those parts.





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## WIRE LAB Company

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### Company History



Mission Statement: "Our mission is to provide steel wire manufacturers proven mechanical descaling technology so they may meet their competitive metrics in a continually evolving marketplace. Wire Lab Company

(WILCO) strives every day to surpass our competitors in quality, customer service and value, and maintain our image as the leader in mechanical descaling systems worldwide."

#### Company History:

Formed in 1968 by Stan Stalson, Wire Lab Company's original purpose was the technical development of the mechanical descaling process and therefore mechanical descaling machinery. Stan's efforts made steady progress and by the late 1970's WILCO Mechanical Descaling Machinery was recognized as a commercially viable (although limited) alternative to acid pickling for rod preparation. Mechanical descaling began to gain acceptance as a way to significantly reduce rod processing costs and just as important a means of reducing and eliminating the environmental problems associated with chemical cleaning.

In 1981 Robert J. Fulop purchased WILCO from Mr. Stalson. Since then the company has relocated twice, in 1985 and 1990, each time into larger facilities. The present 20,000 sq ft location on Cleveland's west side is about 10 minutes



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from Hopkins International Airport, right off of Interstates 71 and 480.

In 2013 Robert L. Fulop (current owner) purchased Wire Lab Company and sister company Rockport Machine Company to continue with the company's goal of providing the highest quality mechanical descaling systems backed up by unsurpassed customer service. Rob has been an active member of the Wire Association International since 1993 and is currently serving as a committee member of the WAI Exposition Planning Committee, board member of WSICA, president of the Ohio Valley Chapter of the WAI and a member of the IWMA.

The current WILCO business is, in fact, the commercial reality envisioned 45 years ago.

#### Current Product Line:

Six (6) standard models of WILCO Mechanical Descaling Systems are available. This line may be separated in two classes - Non-aggressive and Aggressive descalers with the aggressive line incorporating our unique Automatic Rod Brushing unit.

### Product Overview

WIRE LAB Company

wire.01.04.12	Lubricant application
wire.01.05.01	Pickling, blasting, scale removal by bending, cleaning, scale removal
wire.01.12.05	Cleaning facilities (incl. shot-blasting equipment)
wire.01.12.09	Lubricant application equipment

### Product Details

WIRE LAB Company

wire.01.04.12	Lubricant application
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### Lubricant application

Simple, yet very effective, Lubricant Applicators are designed to snap on the rod or wire in the lubricant section of the die box, then covered with the dry lubricant. Two models to choose from – the larger LA-CW primarily used in the first draft or the Model LA-S for intermediate smaller die boxes. Effective on any material drawn with dry powder lubricants from .032" to .625" diameter.



wire.01.05.01

Pickling, blasting, scale removal by bending, cleaning, scale removal

### WILCO Scale Collectors

WILCO Scale Collectors are accessory equipment for use with WILCO Mechanical Descaling Systems to continuously collect and contain scale generated during the mechanical descaling process.

#### SYSTEM CONFIGURATION

The Collectors are free-standing separate units. They are of cabinet-type construction with nine (9) self-cleaning cartridge filters. Cleaning is on an automatic pre-set time basis accomplished with a reverse air pulse. Collection is continuous even during cleaning cycles.

The standard Model 200 has a 3 Hp squirrel-cage motor. The enhanced Model 200-S has an added 3 Hp vacuum blower that allows the unit to act as a vacuum cleaner.

The Collectors are supplied with all required hardware to connect the Collector to WILCO descaling equipment.

#### SYSTEM OPERATION

In operation, a Collector continuously takes away scale as it is generated by 1) a Scale Breaker, 2) an Air Jet Cleaner, 3) a Rod Brusher or a combination of these units.

Scale collected is deposited in a sealed 55 gallon drum - 208 liter. When using the vacuum clean-up system on the Model 200-S, the collection system is shut off and the vacuum system is activated. The main entry into the Collector is automatically closed by an air-operated gate and a vacuum hose port becomes the operative collector entry. A 50 foot - 15.2 m hose is then used for cleaning up the work area including the wire drawing machine and soap boxes.

#### SYSTEM CAPABILITY



Both models can service two adjacent WILCO descaling lines a maximum of 25 feet - 7.6 m apart. Collected scale capacity is about 700 pounds - 318 kg in a 55 gallon drum - 208 liter. Emptying before maximum capacity is recommended.

#### SYSTEM SPACE REQUIREMENT

Both Collectors have a compact footprint of 33 inches by 33 inches - 84 cm by 84 cm. Height is 135 inches - 3.4 m.

#### EQUIPMENT UTILITY REQUIREMENT

Model 200 and 200-S Electrical: 220 V, 60 Hz, 3 Ph Air: 2-3 cfm - 1.2 l/s at 90 psi - 6.2 bar All off-shore electrics available

wire.01.12.05

Cleaning facilities (incl. shot-blasting equipment)

### Pressure Die Holders

Five (5) standard models to choose from for R-2, R-5, R-6,

MR-6 and R-10 wire drawing dies. Special R-12 also Available



Pressure die holders are designed to force lubricant under high

pressure onto the surface of the wire during the drawing practice.

Most effective when used in conjunction with WILCO Lubricant

Applicators on any type of material drawn with powdered lubricants. Simple installation using standard WILCO holding sleeves or water cooled receptacles.

We also specialize in manufacturing custom Pressure Die

Receptacles for all manufacturers' wire drawing machines.



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## WireCo World Group

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Stand	Hall 17, C66



### WireCo WorldGroup at a Glance

WireCo WorldGroup is the world leader in manufacturing, engineering and distributing wire, wire rope, wire rope assemblies, electromechanical cable, high tensile synthetic rope products and high tensile, high carbon steel wire. Drumet wire is used across a broad spectrum of applications, including upholstery, fencing, cable armoring, staple and stitching wire, and steel wire bands. Our engineers, technicians and operators take great pride in producing the most consistent wire on the market.

[www.WireCoWorldGroup.com](http://www.WireCoWorldGroup.com)

[www.Drumet.pl](http://www.Drumet.pl)



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## Exhibitor profile

WireCo World Group

Number of employees	500-999
Business volume	100-199 Mio US \$
Export quota	max. 25%
Founding year	1931
Business segment	Process technology tools and auxiliaries

## Company Contacts

WireCo World Group

Department/Name	Address
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## Product Overview

WireCo World Group

wire.04.05.03	Wire ropes, wire strands, cables
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### Woodburn Diamond Die, Inc.

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Stand	Hall 09, C14

#### Woodburn Group

The Woodburn Group provides Diamond Dies to the wire drawing community around the world through their network of manufacturing facilities. Headquartered in the USA, Woodburn Diamond Die services the North American market along with their counterparts Woodburn Wire Die which is located in Juarez, Mexico.

Much of the remaining world market is serviced by the Walson Woodburn Wire Die group out of Surat, India. Utilizing two manufacturing sites, they are able to supply both domestic and export markets with help from sales representatives in multiple countries.



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#### Exhibitor profile

Woodburn Diamond Die, Inc.

Number of employees -

Business volume -

Export quota -

Founding year 1957

Business segment

#### Company Contacts

Woodburn Diamond Die, Inc.

Department/Name	Address
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Purvesh Jariwala	Walson Woodburn Wire Die Pvt. Ltd. IND-395 008 Surat Phone: 0091-261-2481828 / 2481793 Fax: 0091-261-2481716 info@walsonwoodburn.com
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## Product Overview

Woodburn Diamond Die, Inc.

wire.01.12.01	Drawing dies - repairing and machining
wire.01.12.08	Laser processing and microdrilling of draw dies
wire.02.02.01	Extrusion dies
wire.02.03.01	Diamond drawing dies
wire.02.03.02	Hard metal drawing dies
wire.02.03.04	Polycrystalline drawing dies
wire.02.03.05	Enamelled drawing dies
wire.02.03.06	Adjustable drawing dies
wire.02.03.07	Cleaning, repairing and polishing drawing dies
wire.02.03.09	Tube and rod drawing dies

## Product Details

Woodburn Diamond Die, Inc.

wire.02.03.01 Diamond drawing dies

### Single Crystal Diamond Dies

Superior performance is the hallmark of the diamond, whether it's a natural diamond that is mined or one that is synthetically grown. This material guarantees wire die hardness, accuracy, superior finish and an extended die life. Woodburn's research and innovation are combined with veteran craftsmanship to ensure precision quality and cost effectiveness using the hardest materials known to man. Dies manufactured with single crystal diamonds produce drawn wire with superior surface conditions and the ability to maintain very tight diameter tolerances. Drawing applications and required hole size diameters are used to help determine which diamond crystal is the appropriate material with which to work.



Single Crystal Diamonds (.0004 - .144 inch) (0.0102 - 3.658 mm)

wire.02.03.02 Hard metal drawing dies

### Tungsten Carbide Dies

Carbide dies have been used in the wire industry for many years. They are used in various drawing applications where diamond dies are not economical or where hole tolerance is not as critical. They are used extensively in the steel industry as well as the nonferrous industry in applications such as bunching or stranding large diameter cables. These dies are available in a large range of nib and hole sizes.



Tungsten Carbide (TC) (.0080 - 1.250 inch) (0.1524 - 31.750 mm)

wire.02.03.04 Polycrystalline drawing dies

### Polycrystalline Diamond Dies

The "industry workhorse" is the signature of the polycrystalline diamond die, where standing up to demanding wear is a necessity. This material has highly predictable die wear, thermal stability with high resistance to fracturing. All these characteristics offer cost efficiency with less downtime. Woodburn Diamond Die's uncompromising quality assurance methods provide trouble-free performance from installation to recutting. Polycrystalline diamond is manufactured by forming a mass of diamond crystals and then applying a combination of heat and pressure. Through this process, the mass becomes a single unit with the diamond particles inter-grown to each other. The final product is extremely wear resistant, maintains tight hole tolerances, and provides good surface finish. Consider Woodburn's polycrystalline diamond, where high polish is included as part of the standard process, when drawing ferrous or nonferrous wire, including aluminum, copper and stainless steel. It's also the perfect material for stranding, bunching, tube drawing and shaped dies.



Polycrystalline diamond is available in various grades, nib sizes and size capabilities. Woodburn Diamond Die's technical advisors will help select the appropriate nib size and grain structure for your application.

Polycrystalline Diamonds (.0030 - .750 inch) (0.0762 - 19.050 mm)



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## Wrentham Tool Group



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Stand	Hall 15, J37



### About Wrentham Tool Group

A global supplier of cold and hot heading tools utilized in the production of many types of fasteners ranging from simple nails to high performance aerospace products.

Wrentham Tool Group has been a leading supplier of cold heading tools since its founding as Wrentham Steel Products in Wrentham, MA, USA in 1948 and is the longest operating and most experienced recess header tool manufacturer in the world. WTG has undergone many changes since then including ISO 9001:2008 certification and continues to re-invent itself to better serve the ever changing global market. Year after year, WTG continues to outperform the competition and expand its product line and operations. As a result of this dedication to continuous improvement, WTG has become the market leader in a wide range of hot and cold heading tools.

In 2004, WSP was purchased by Phillips Screw Company and became Wrentham Tool Products. Phillips Screw Company is the original patent holder of the PHILLIPS® recess as well as several recesses such as the MORTORQ® Super and HEXSTIX®. Phillips Screw Company engineers work with Wrentham Tool engineers on a day to day basis to ensure the highest quality products are



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shipped around the world to Wrentham's diverse customer base.

In July 2010, WTG purchased RICOTM and ASTRO® from PCC Specialty Products Inc. RICOTM and ASTRO® are known around the world for their high quality industrial, automotive, and aerospace punches and associated tooling. As a result of this acquisition, Wrentham Tool Products was renamed Wrentham Tool Group. The close proximity of RICOTM/ASTRO® allowed WTG to retain most of its highly skilled work force.

In April 2012, Wrentham acquired the Acument Pin Shop from Acument Global Technologies, Inc. The Acument Pin Shop was the preliminary manufacturing location for TORX®, TORX PLUS®, and TORX PLUS® AUTOSERT blanks for use as the basic instrument for manufacturing finished tools. With this acquisition comes a maturing of Wrentham's identity from a header tool supplier into a supplier for heading tool manufacturers. As part of this acquisition, Wrentham acquired the machines, dies, and supportive tooling for production of a full range of internal and external TORX®, TORX PLUS®, and TORX PLUS® AUTOSERT recesses.

WTG's mission is to provide world-class quality, value pricing and unparalleled customer service. To achieve these goals WTG has dedicated significant financial and human resources to ensure success. WTG has expanded its product line and offerings to include the latest fastener recess innovations such as MORTORQ® Super, HEXSTIX®, and TTAP®, as well as a proprietary MOACTM coating, and a new line of Black Diamond™ Gages. WTG also manufactures a full array of carbide and steel heading tools including hex inserts, hex pins, and trim dies. WTG has increased stock levels and appointed sales agents in strategic locations around the world to better serve the customer and ensure continued expansion.

### Product Overview

Wrentham Tool Group

wire.01.02.07 Chipless forming

wire.02.10 for chipless shaping

wire.06.03.06 Fasteners

**Product Details**

Wrentham Tool Group

wire.02.10 for chipless shaping

**Cold Header Tooling**

Wrentham Tool Group is known the world over for our high quality recess punches and pins but we also offer a full line of casings, quills, reamers, cutoff knives, knock out pins, draw dies, etc.



wire.06.03.06 Fasteners

**Cold Header Recess Punches**

Wrentham Tool Group offers the highest quality cold/hot header recess punches in the world. In 1948 WTG manufactured its first square recess punch and since then has grown into a much sought after market leader in the supply and distribution of recess punches for manufacturing screws all known types and styles. Whether you are looking for commercial TORX, aeronautic TORQ-SET, or a recess of your own design, WTG has the product for you!



**Our Services**

Wrentham Tool Group offers select specialty services including but not limited to Gage Calibration, Coating, EDM, Heat Treating/Annealing, Surface/OD Grinding, Polishing, and Laser Etching.

WTG has 600+ years of combined experience and is the longest operating punch manufacturer in the world. Wrentham's customer service representatives are knowledgeable, pleasant, and always prepared to assist a customer with their needs with due diligence and as quickly and effectively as possible.

Our Services Include:

Coatings

Gaging & Calibration

**Yield Management Corporation**

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Phone	+1 413 2837773
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**Yield Management Corporation**



Yield Management Corporation was established in 2002 with the introduction of the company's "Award Winning" Low Bobbin Detector for braiding machines. YMC has continued to expand its accessory product lines with innovative detection systems for stranding and cabling machinery. These accessory products reduce defects

and operating costs while improving productivity and yield in Wire & Cable operations.

YMC offers a complete line of braiding and shielding machinery as well as replacement parts for Wardwell rotary braiding machines.

A 2003 agreement with the Niehoff gruppe of Schwabach Germany as the sole supplier of Low Bobbin Detection systems for the BMV series braiding machines has contributed to YMC's international presence throughout Europe, the Americas, Asia and Australia.

For more information, please visit our product links or contact Yield Management Corporation using the contact us tab or email to sales@yieldmanagementcorp.com This e-mail address is being protected from spambots. You need JavaScript enabled to view it



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**Product Overview**

Yield Management Corporation

wire.05.09 Process monitoring systems

**Product Details**

Yield Management Corporation

wire.05.09 Process monitoring systems

**Buncher Length Counter**



Eliminate Twist Loss and Scrap

Yield Management Corporation has developed a length measurement system for single twist bunching applications that accurately measures the finished cable length after the twist. Optical sensor outside the machine's path accurately counts and scales capstan sheave rotation.

**Features**

- Touch Screen Interface
- Production Preset
- Diameter compensation
- Twist Length Confirmation
- % Complete Indicator
- Metric or Imperial Units

**Factory Data Collection**



Yield Management Software Corporation has developed a data collection and production reporting system designed to improve efficiency and lower costs in Wire & Cable operations. The system provides powerful tools to visualize, measure and report production and efficiency by shift, cell, machine type, etc.

**HMI Spool Monitoring**



Fail safe system for detecting wire breaks before the forming die. Operator friendly HMI system

The system can be custom engineered for most rigid frame and planetary cabling machinery with any num-



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ber of spool positions

Reflective segments mounted to the spindle brake disk act as a target for optical position sensors mounted outside the machine's rotation

**Features**

- Enable by position
- Operator safety override
- Alarm on wire break
- Alarm on low diameter
- Spool diameter feedback
- Configuration screen
- Left or right hand rotation
- Custom configured to customers
- Requirements

**Yoder A Member of the Formtek Group**

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Formtek is a group of long-established metal forming equipment manufacturing companies, each with a well-known name and a history of providing innovative and reliable equipment to the metal forming and metal processing industries. Because of the combination of these companies, we are a single-source provider of the best and broadest productivity solutions available.

Yoder a member of the Formtek Group, is a designer and builder of equipment, tooling and systems for metal forming, tube and pipe and heavy industrial material handling applications.

Yoder can provide custom or off-the-shelf manufacturing solutions that increase production capacity and efficiency of your factory through integrated, streamlined processes, more automation, and faster machines.

Yoder has long been recognized as one of the earlier pioneers in the welded seam tube mill business. Yoder offers multiple standard tube mills for common product sizes. In addition to the standard machines, Yoder also offers specialized equipment that covers a huge diameter range of metal tubes and pipes; from the 3/16" (4.76mm) O.D. cold stretch reducing mills to the 28" OD cage mills.

As required by the application for welding the tube or pipe, Yoder can provide mills with high-frequency induction or contact welders, DC & AC Square Wave Welding (ERW), TIG and laser.

For Tube and Pipe manufacturing, Yoder provides a range of solutions to fit the application: complete mills, individual machines, mill accessories, tooling, as well as consulting, engineering studies and retrofits to existing installations.

For additional information go to <http://formtekgroup.com> or contact us at [sales@formtekgroup.com](mailto:sales@formtekgroup.com).

We can be reached at +1 (800) 631-0520 or +1 (216) 292-4460.



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**Exhibitor profile**

Yoder A Member of the Formtek Group

Number of employees	50-99
Business volume	50-99 Mio US \$
Export quota	-
Founding year	1910
Business segment	Tube manufacturing machinery

**Company Contacts**

Yoder A Member of the Formtek Group

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**Company News**

Yoder A Member of the Formtek Group

**01/13/2014 WH-350 WELD SQUEEZE BOX DESTINED FOR OHIO**

Yoder Manufacturing of Cleveland, Ohio, a member of the Formtek Group, has recently been contracted to refurbish and upgrade an existing WH-350 tube mill to produce structural shapes (HSS). Formtek has designed a new style weld squeeze box that consists of a five (5) roll and four (4) roll configuration as deemed necessary by the particular product being produced. Either configuration utilizes a top head roll assembly consisting of two (2) top edge rolls that control the edge presentation prior to welding. The head roll assembly has vertical adjust as a group and individual adjustments to compensate for improper strip edge alignment. The main squeeze pressure is provided by the bottom squeeze unit which will utilize two (2) side rolls only



for rounds that range from 1.500" to 3.250" (38.1 to 82.6 mm) OD or two (2) side rolls and one (1) bottom roll for rounds that range from 3.250" to 5.000" (82.6 to 127.0 mm) OD. With the ability to switch from 4-roll to 5-roll configuration allows the operator the utmost in flexibility to provide the proper material presentation for the welder. The bottom squeeze roll assemblies are unique in that there is fast sides close adjustment as well as a fine tuned (and geared) close adjustment, thus eliminating the need for operators to utilize cheater bar tools, which can cause injury if they slip. All roll spindles are "dead-shaft" design so the bearings are housed within the rolls to yield the best possible bearing life for the weld box, which is considered the worse case scenario for environment on the tube mill.

The weld box assembly has one last feature that is the ability to move up and downstream with respect to the tube mill flow. This allows the operator to fine tune the weld VEE angle with respect to the last fin-pass. Therefore, depending on your particular tooling design, the weld VEE angle can be changed to gain the best operating parameters for your particular product. The weld squeeze box assembly can handle up to wall thicknesses of 0.250" (6.4 mm).

Formtek is a group of long-established companies, each with a well-known name and a history of providing innovative, reliable equipment to the metal forming and metal processing industries. As a single source provider, Formtek continues to supply it's customers with the highest quality equipment, parts and service available in the industries it serves.

Visit the Yoder website ([www.yodermfg.com](http://www.yodermfg.com)) or email [yoder@formtekgroup.com](mailto:yoder@formtekgroup.com)

## 12/22/2015 Reshaping Stainless Steel Tubing for Fluid Applications

Many customers who produce round austenitic stainless steel tubing often wonder how much reshaping can be performed while not harming the material integrity due to cold working and how they orient that section for their mill system.



Taking round product and reshaping, or reforming, into complex shapes is common among carbon steel tube producers but not common to austenitic stainless steel producers. The term complex shape does not necessarily require various sharp angles, which has no purpose in fluid or Heat Transfer applications. Instead, it complexity can encompass very thin, tall elliptical shapes that are not easily produced on standard, reshaping capable, tube mills.

Depending on the application, five, six, seven or more stands are required to reshape the round product into elliptical shapes. It essentially depends on how much material must be physically moved. A well-engineered tooling arrangement will design around a specific amount of material movement that can be accomplished per pass, per horizontal center (center between driven stands), etc. Unlike more common tubing applications, the manufacture of complex stainless steel tubing requires an integrated tooling and mill design to truly optimize the forming process. Most tube mill system producers do not have this expertise in house and must work with their tooling suppliers externally to determine the correct material flow patterns that yield satisfactory results.

Yoder Manufacturing, a long time supplier of tube & pipe mill systems, is unique in the industry. As part of the Formtek Group, Yoder is able to supply tube mills, roll tooling and cutoff equipment, in conjunction with Hill Engineering, another Formtek company. As a whole, they are able to look at the complete manufacturing system and apply appropriate disciplines to yield a system that reshapes round, fusion welded tubing into an ellipse. Based on recent installations, Yoder installed an elliptical tube system that produces a finished product that is 73% thinner than the incoming round tube diameter (as shown below).

Due to the reshaping tooling designs, the final product had minimal surface marking, typically caused by speed mismatch, which was accomplished by considering the profile orientation through the mill: the tall axis of the ellipse is horizontal, taking advantage of the natural forming state of the driven stands, while reducing the effects of rotational speed differences, due to changes in tool-to-section radii.

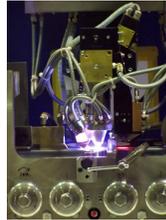
Orienting a section like this would normally cause headaches for cutoff manufacturers because the system requires a horizontal flow to shear the ellipse to length. Again, Yoder and the intercompany expertise of Hill Engineering were able to look at the big picture and determine that designing a cutoff with a complete horizontal cutting motion yielded far more advantage to the reshaping process.

In summary, reshaping of austenitic tubing is possible but you must consider the overall manufacturing solution with the forming, tooling and cutoff as an integrated system. Allowing ample amount of stands to perform the reshaping, and orienting the product so that it is aligned to the strengths of your mill system is crucial in producing a complex shape successfully.

For more information, contact [yoder@formtekgroup.com](mailto:yoder@formtekgroup.com) or call (216) 292-4460 or (800) 631-0520

**12/22/2015 FIBER LASER WELDED TUBE MILL**

Yoder Manufacturing of Cleveland, Ohio, has recently received supplied a QVW-150 Fiber Laser Welded Tube Mill for producing decorative stainless components up to 1-1/2" (38 mm) diameter. The complete system consists of an entry end, forming machine, fiber laser welder with twin-spot welding head, sizing machine with integrated double cut shear system, brush de-burring system and a triple head center-less finishing system - all fully integrated for ease of operation. The mill also includes a unique ID marketing system, so the tubing coming off the mill will be complete, ready to be accurately located and welded into the customers fabricating assembly.



By de-coupling the finishing system, after the cutoff, and utilizing centerless brush technology, instead of an inline solution, the customer will be able to easily vary their type of polished or brushed finish, for the various products and brands that they supply to different end markets. This can be done with the tube mill still in operation, and accumulating in process tubes, effectively maintaining continuous throughput of the overall system. This method of finishing, combined with the laser welding system, will enable the customer to have one system instead of two TIG welding tube mills, further shortening their return on investment. The efficiency of this solution has enough available production capacity that the customer will be delay the need for additional tube making equipment by several years.

Yoder has provided similar systems, in recent years, for the chemical, oil & gas, and automotive markets, which require the integration of non-destructive testing and/or annealing equipment, depending on the specific application.

Yoder continues to advance its decades of experience as a leader in continuously welded tube production systems. For this latest tube mill, Yoder developed its new fiber-based fusion welding system with twin-spot welding optics. With these latest developments, laser welding is becoming more economical, more robust for the tube mill environment and less costly to operate when compared to their CO2 counterparts as well as TIG/Plasma welding. With Yoder's new fiber laser welding system, there is no theoretical limit to tube diameter and with this system the wall thickness capability has been practically expanded up to 0.375" (9.5 mm).

Yoder is a designer and builder of equipment, tooling and systems for metal forming, tube and pipe and heavy industrial material handling applications. Yoder can provide engineered to order and off-the-shelf manufacturing solutions that increase production capacity and efficiency of your factory through integrated, streamlined processes, automation, and faster machines. Yoder is

part of the long-established companies that make up the Formtek Group, each with a well-known name and a history of providing innovative, reliable equipment to the metal forming and metal processing industries. As a single source provider, Formtek, [www.formtekgroup.com](http://www.formtekgroup.com), continues to supply our customers with the highest quality equipment, parts and service available in the industries it serves.

Visit the Yoder website ([www.yodermfg.com](http://www.yodermfg.com)) for further information on their tube and pipe technologies, email [yoder@formtekgroup.com](mailto:yoder@formtekgroup.com) or call +1 (216) 292-4460.

**01/13/2014 Yoder Introduces XW-Series Forming Machines**

Yoder recently introduced its XW-series of driven forming stands for roll forming and tube mills. The three models of XW-Series driven stands incorporate a rigid, gusseted housing design, which has years of proven performance in the QVW-Series machines, with the additional feature of bottom shaft adjustment. The design is reverse compatible with the QVW-Series roll stands, so they can be installed on existing installations with no modifications. The bottom shaft adjustable design adds the ability to form deeper sections and performer greater amounts of reshaping on a roll former or tube mill, than was previously available in similar models. The QVW-Series machine will continue to be the standard, universal driven design, with the option of the XW-Series available when the applications require.

Yoder's XW- and QVW-Series roll forming machines are rugged, scalable solutions to meet a range of custom and high production, industrial applications. For more information, contact [yoder@formtekgroup.com](mailto:yoder@formtekgroup.com), call (216) 292-4460 or visit [www.yodermfg.com](http://www.yodermfg.com).

**Product Overview**

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tube.02.03.01

Tube forming equipment

**wire**  
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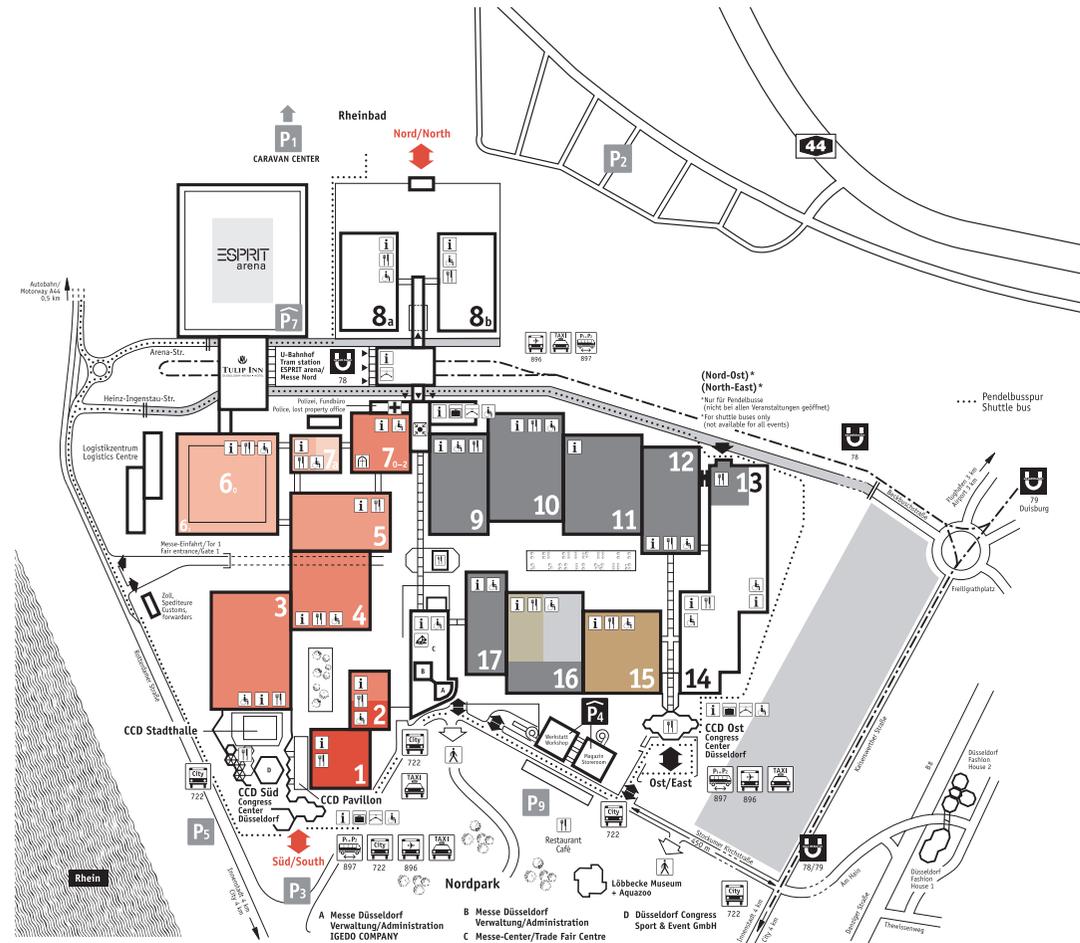
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