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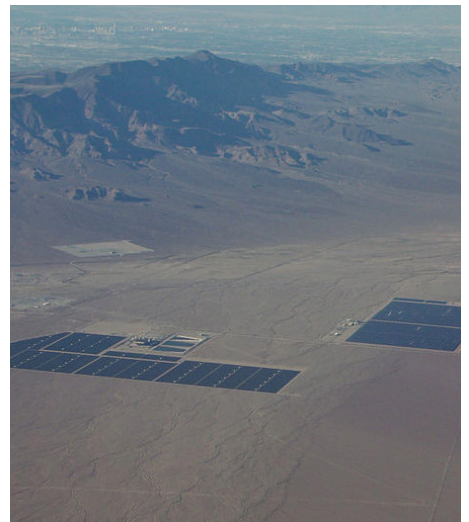
April 2013 issue - No 22

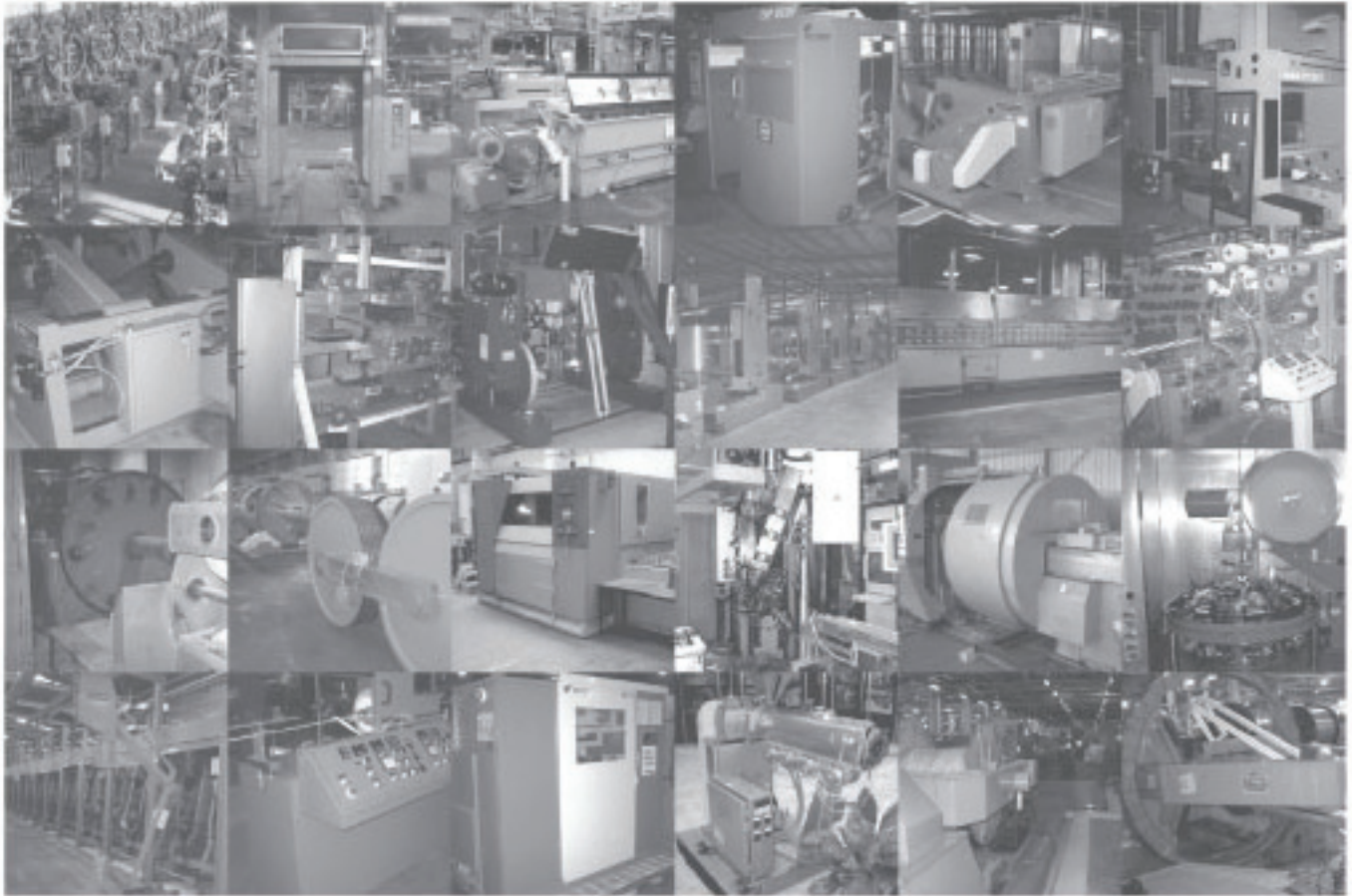
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#22 EDITOR

Relationships take time and effort. That's why it's good to see two stories in this issue, one more personal, one corporate.

The first is Robert 'Gary' Jones celebrating 40 years with Southern Wire. It's a rare thing these days to find an employee who will remain loyal to the company he or she has worked for for so long, but both parties can be justifiably proud in this case that one suits the other perfectly.

The management of the company are to be endorsed for providing Gary with the opportunity to have trained all the employees, passing on his considerable knowledge to other members of staff and schooling them in the ways of Southern Wire, as well as, no doubt, adding just a touch of his own enthusiasm into the proceedings. See page 12

The second story is the 90th anniversary celebration for Gavitt Wire and Cable, a family firm through and through, who are quite rightly giving themselves a pat on the back at the moment for hitting this memorable milestone. It's impressive that the company has adapted down the years and despite the competition from abroad, continues to thrive. This story is on page 16

David Bell
Editor

CONTENT CONTENT CONTENT CONTENT



#22

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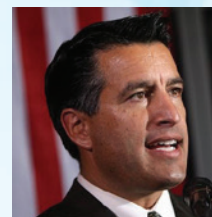
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Show Diary
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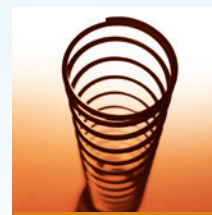
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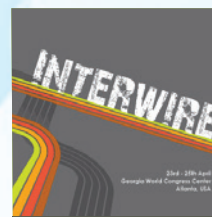
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DIARY SHOW EVENTS

2013

APRIL

23-25 April: **Interwire 2013**
Atlanta, Georgia, USA
Exhibition
www.wirenet.org

JUNE

16-18 June: **Guangzhou Wire and Tube**
Guangzhou, China
Exhibition
www.julang.com.cn

25-28 June: **wire Russia 2013**
Moscow, Russia
Exhibition
www.wire-russia.com

SEPTEMBER

17-19 September: **wire SE Asia 2013**
Bangkok, Thailand
Exhibition
www.wire-southeastasia.com

OCTOBER

1-3 October: **wire South America**
São Paulo, Brazil
Exhibition
www.wiresa.com.br

NOVEMBER

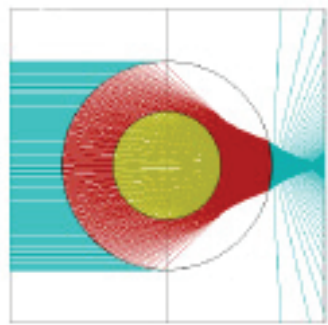
3-5 November: **Cabwire 2013**
Milan, Italy
Conference
www.cabwire.com

10-13 November: **IWCS**
Charlotte, NC, USA
Conference
www.iwcs.org

OPTICAL FIBRES

Measurement Instruments

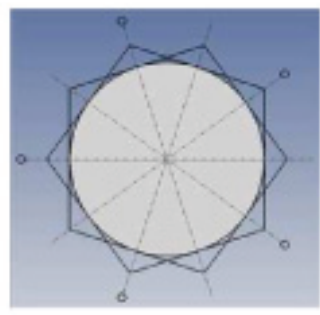
LIS-G: **Laser Interferometric Sensor for Glass fibre**
 Diameter repeatability : **$\pm 0.005\mu\text{m}$** , 50kHz
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Ultra fine air line detection, $0,7\mu\text{m}$ 400Hz
 Fibre position: $\pm 0.01\text{mm}$, 1 kHz
Spinning frequency profile
Non circularity measurement



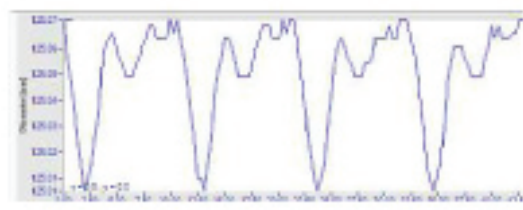
NCTM : **Drawing force**
Birefringence principle
 Non Contact Tension Measurement
0-400 grams $\pm 1\text{gram}$, 1 kHz
 $\pm 1\text{ gr}$ within $10-40^\circ\text{C}$ ambient



CM5: **Coating Monitor 5 axes**
Diameter, lump & neck, defects detection, coating asymmetry
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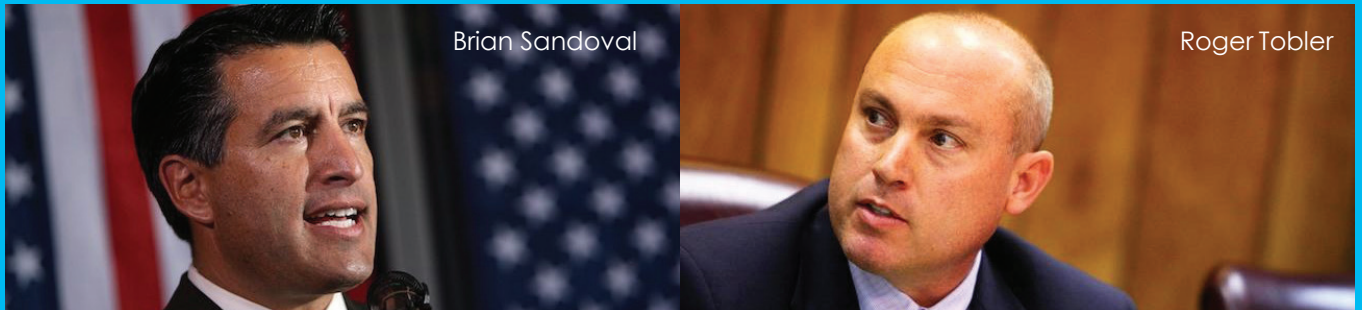
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MAKING THE NEWS



Brian Sandoval

Roger Tobler

Nevada's newest solar project

Nevada governor Brian Sandoval and Boulder City mayor Roger Tobler joined Sempra US Gas & Power officials and community leaders to dedicate the state's newest solar energy project, the 92MW first phase of the company's Copper Mountain Solar 2 facility in Boulder City. Construction of Copper Mountain Solar 2 began in December 2011.

Copper Mountain Solar 2 is one of North America's largest PV solar plants. When its second phase is completed in 2015, the project's total operating capacity will be 150MW - enough energy for 45,000 homes.

Governor Sandoval said: "With an abundance of sunshine in the Silver State,

this project will harness the sunlight and turn it into clean electricity, while creating jobs for Nevadans. I'm pleased to be a part of this dedication ceremony."

During the dedication Jeffrey W Martin, president and CEO of Sempra US Gas & Power, announced the start of construction at Sempra US Gas & Power's largest solar project, Copper Mountain Solar 3. When completed in 2015, the project will be capable of generating 250MW, or enough electricity to power about 80,000 homes. In total, Copper Mountain Solar 1, Copper Mountain Solar 2 and Copper Mountain Solar 3 will represent one of the largest solar power complexes in the US, capable of generating 458MW.

Beyond superconductivity?

A team of researchers from the University of Wisconsin-Madison, Florida State University and the University of Michigan, has engineered a multilayer material that promises a breakthrough in superconductivity research and applications.

The researchers can tailor the material, of alternate metal and oxide layers, to achieve superconducting properties and the ability to transport much more electrical current than non-engineered materials.

Superconductors, which presently operate only under extremely cold conditions, are efficient transporters of energy and produce high magnetic fields. However, the ongoing challenge to leverage superconductivity is in developing materials that work at room temperature. Currently, even unconventional high-temperature superconductors operate below -369°F .

As an unconventional high-temperature superconductor, the researchers' iron-based pnictide material is promising in part because its effective operating temperature is higher than that of conventional superconducting materials such as niobium, lead or mercury.

The research team engineered and measured the properties of superlattices of pnictide superconductors. A superlattice is the complex, regularly repeating geometric arrangement of atoms — its crystal structure — in layers of two or more materials. Pnictide superconductors include compounds made from any of five elements in the nitrogen family of the periodic table.

The researchers' new material is composed of 24 layers that alternate between the pnictide superconductor and a layer of the oxide strontium titanate.

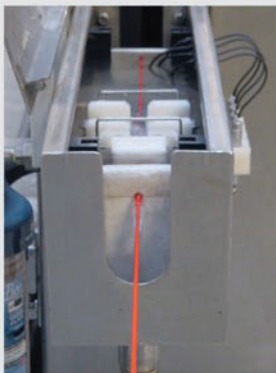
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SOUTHERN WIRE CELEBRATES 40 YEARS RELATIONSHIP

Southern Wire hired Robert “Gary” Jones in 1973, just the fourth employee hired by the company. He began work at the first warehouse, located in Memphis, and has since worked in all areas of the shop, from pulling hardware to fabricating wire rope slings to becoming a master of wire rope. His experience has given him the ability to assess the diameter, construction, and lay of a reel of cable at a glance. In some way or another, Gary has trained each and every co-worker who has walked through Southern Wire’s door over the past 40 years.

When asked what he gained from his experiences at Southern Wire over the past 40 years, Gary answered: “It’s all about taking pride in your job and the friendships you forge. It’s more than just a job; it’s the family atmosphere with friendships that have been cultivated over the years.

“It goes beyond being a paycheck to me; it’s my way of life and my career.” He added, “Retirement is something I cannot even think about right now. I don’t want to leave; I enjoy every day here with my Southern Wire family. I have truly been blessed to be part of such a great team.”

The entire Southern Wire family would like to take this opportunity to thank Gary Jones for all he has done for this company over the past 40 years.

Fiber cable attacks

There were reports of vandalism to Suddenlink's fiber optic cable in Humboldt County, California, through March. The first attack occurred on 8th March, with a fourth attack reported by 13th March. Suddenlink has estimated the repair costs to be approximately \$10,000 per site. The vandals have occurred in the Ferndale, Trinidad and Bayside areas.

This is an on going investigation and the Sheriff's Office is working to identify a suspect or suspects and to prevent further vandalism and interruptions to Suddenlink services. The attacks highlight the vulnerability of both cables and services and, consequently, those who depend on them.

Suddenlink is offering a \$5,000 cash reward for the arrest and conviction of those who are responsible for these crimes.



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Suntech to set on Arizona

Suntech Power Holdings Co Ltd, producers of solar panels, will cease production at its Goodyear, Arizona, solar panel manufacturing facility on 3rd April. Higher production costs, exacerbated by import tariffs on solar cells and aluminum frames imposed by the US government, as well as global solar module oversupply have contributed to the facility's closure.

The decision is in line with Suntech's global restructuring efforts to rationalize production capacity and reduce operating expenses by 20 percent during 2013.

"We want to thank our employees in Goodyear for their hard work and professionalism, as well as the Goodyear and Phoenix communities for their steadfast support of Suntech over the past several years," said EL "Mick" McDaniel, MD of Suntech America. "These are the growing pains

of a maturing industry; although it's a tough time to be a solar manufacturer, there's never been a better time to be a solar customer."

On 7th November 2012, the US international trade commission voted to impose unilateral tariffs of 35.97 percent on Suntech solar cells produced in China, a key component used at Suntech's Goodyear production facility. The tariffs on solar cells came in addition to tariffs imposed by the US government in 2011 on aluminum frames, another key input for solar panel manufacturing. Both tariffs have made it more challenging for Suntech to cost effectively manufacture solar modules in the US.

Suntech's Goodyear, Arizona, manufacturing facility was opened in October 2010, reaching peak production of 50MW per year in 2011.

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Moving with the times is a 90-year tradition

Gavitt Wire & Cable Co of Brookfield, Massachusetts, is celebrating its 90th birthday. Founder Lester Gavitt started the company in 1923 making buggy whips and shoelaces. A ham radio enthusiast, Mr Gavitt "could see a need for wire and cable," and as he had the braiding equipment, got into the business of making them, said company president Mr Ray Chesson, whose family acquired the company in 1977.

The company's products include specialist cables for headset communications: "We went to the moon," said Ray Chesson, company president. Another strong area is medical electronics. The product they make is "small, lightweight and strong," Mr Chesson said, the thinnest being three times the diameter of a human hair.

Very much a family firm, grounded in the community, the company has been part of the local economy for nine decades. "We're very proud that our employees stay with us," Harold Chesson said. "At one time we had a half a dozen employees who'd been here more than 40 years." And not just workers. The factory today includes a vintage cable spinning machine, made by the American Brass Co, that has been in operation since 1937.

The company employs 45 people, doing custom jobs for some 200 clients worldwide. While much of the company's competition comes from China, theirs remains a "made-to-order" business. "We'll do down to a thousand feet of custom runs," Mr Chesson said, though: "We've got one order on the books right now for 60 million feet."

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Cabling connectivity

Avago Technologies and Corning Incorporated are collaborating to develop optical cabling connectivity solutions for networks and data centers.

The new optical connectivity solutions are targeted for 40G/100G and next-generation networks. Currently serving three primary target markets – wireless communications, wired infrastructure and industrial – Avago designs, develops and supplies a wide range of analog, mixed signal and optoelectronics components and subsystems, with a focus in III-V compound semiconductor design and processing.

According to a statement, Avago has developed a series of pluggable transceivers and Atlas optical engines at 40G/100G and beyond, suitable for ethernet, storage, and high-performance computing applications. Corning's products enable high-technology systems for consumer electronics, mobile emissions control, telecommunications and life sciences. It has developed a new high-bandwidth optical solution for applications at 40G/100G and beyond.

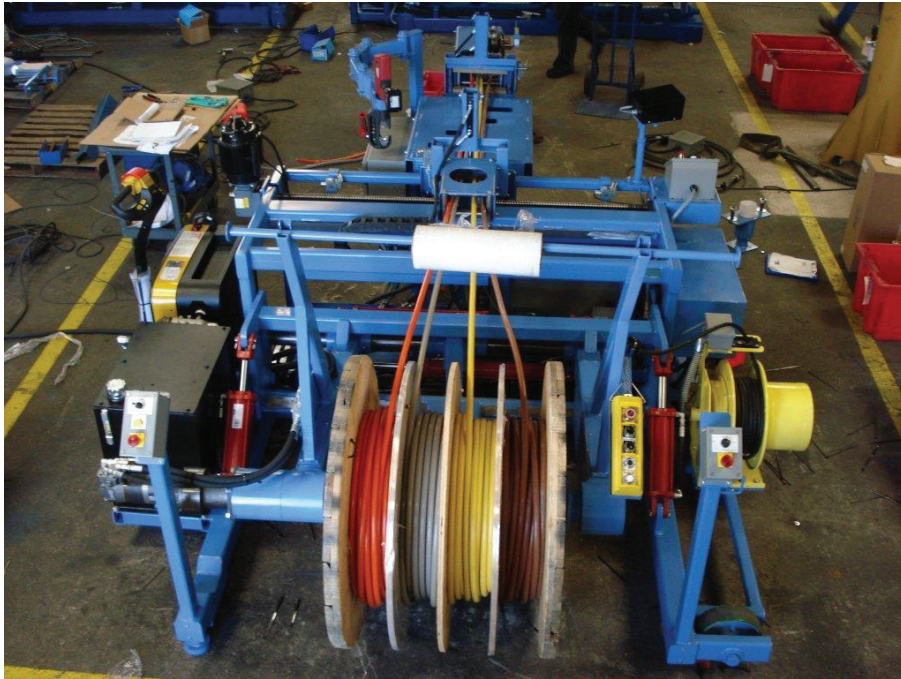
More power to Brazil

LEME Engenharia – Tractebel Engineering (Brazil) has signed a new contract with Eletrobras Distribuição Rondônia for the implantation of 58 substations and 1,700km of distribution lines to cover the state of Rondônia, in the north-western part of Brazil.

This is LEME Engenharia – Tractebel Engineering's second contract in the area. The first, signed in 2012, refers to the design of the substations and distribution lines, which cover the whole electric energy system of distribution in the state of Rondônia. This was the largest contract for electrical systems ever awarded by Eletrobras Distribuição Rondônia. The works began in July 2012 and are expected to be complete by the end of 2014.

Mário Lúcio Hamdan, manager of LEME Engenharia's office in Brasília, and also the project manager, believes the project has great relevance for the development and infrastructure of many locations in the state. "Nowadays, the energy generation is local. The construction and enlargement of the substations and transmission lines will allow that more locations are covered with a better quality service," he said.

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Testing capability

CSA Group has launched a new wire and cable testing and certification laboratory in Guangzhou, believed to be the first in the southern region of China. It also increased its product testing capabilities for US Energy Star testing. Elsewhere, in Kunshan, CSA Group is expanding its alternative energy testing and certification services with a new photovoltaic (PV) laboratory.

"Accelerating investment in our laboratories, service offerings and employees in China is at the core of our global corporate strategy," said Ash Sahi, president and CEO, CSA Group. "The new wiring and cable laboratory is equipped to provide CSA Group's clients with highly sophisticated and innovative localized testing and certification services for global markets."

Occupying an area of over 3,800m², the newly added facility will provide testing and certification services for a range of products including flexible cords, communication wires, and equipment wires. Testing and certification will be completed against Canadian, US and other international standards.

In Kunshan, the new solar PV laboratory will increase capacity for testing and certification of PV modules, grid-connected inverters and components to North American and IEC standards. The PV laboratory will be equipped to test 100kW PV grid-connected inverters and will be able to complete IEEE 1547 and IEEE 1547.1 testing.

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CableCheck™ winner announced



John Featherston, account manager at NET IG in Kent, Washington, is the winner of CCCA's CableCheck™ game and the prize of an iPad Mini. The game was designed to help inform the industry about fire safety compliance for communications cables.

Featherston, who enjoyed testing his knowledge on the subject through the game, has followed the CCCA from its inception: "I like to keep my finger on the pulse of the industry by staying informed through professional organizations such as CCCA, and being aware of various issues in

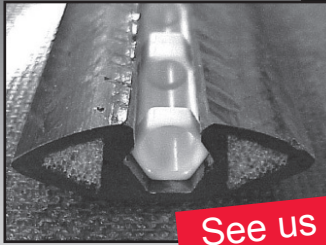
order to pass the info on to the contractors we deal with," he said.

NET IG works with many Fortune 500 customers in the Northwest US to design physical-layer infrastructure solutions, specializing in data centers.

"In addition to educating the industry about fire safety issues in a fun way, entrants' answers in the game were also informative to CCCA, by showing us which issues may need further attention in our future communications," commented Frank Peri, executive director of CCCA.

The winner was chosen randomly from hundreds of entrants who played the game through the CCCA newsletter, website and in person at BICSI in Tampa. It was so successful CCCA is considering a similar venture in the future.

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Infrastructure boom strengthens industry

New analysis of the North American wire and cable materials market from Frost & Sullivan Analysis finds that the market earned revenues of \$1.92 billion in 2012 and estimates this to reach \$2.53 billion in 2018. The analysis covers power cables, building wires and communication cables.

"Overhead lines are generally bare conductors, where air acts as the insulation; underground cables, however, require plastic insulation, jacketing and sheathing materials," said Frost & Sullivan chemicals and materials research analyst, Anita Pamu. "Thus, the growth of the underground T&D market will accelerate the sales of cable materials within this segment."

While there is significant demand for new cables in the power sector,

there is little demand within the replacement market because the average lifespan of a power cable can range from 25 to 40 years, which translates to low replacement rates.

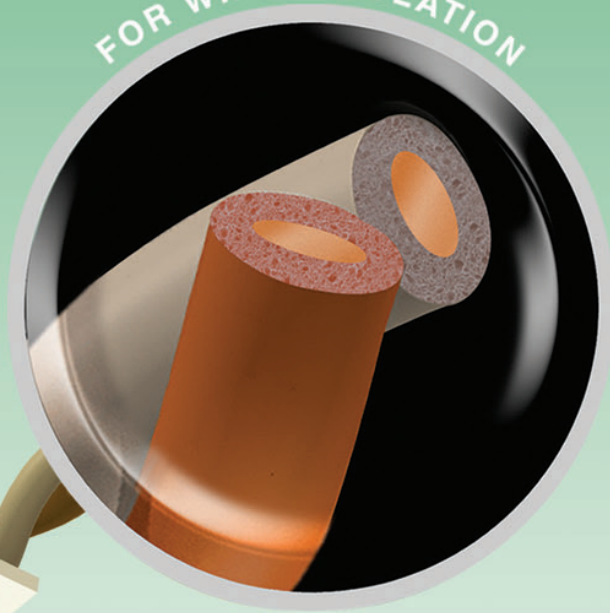
The analysis concludes that, to stand out in a competitive commodity market, materials suppliers should focus on developing lighter compounds and reducing material costs. Resin and compound suppliers should seek to establish their presence in high-growth markets to sustain sales volumes. Suppliers that offer a wide range of cable-grade resins and compounds are much better able to retain existing customers and gain new business.

"Analysis of the North American wire and cable materials market" is part of the Frost & Sullivan Materials Growth Partnership Service program.

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Rousseff calls for decade of investment

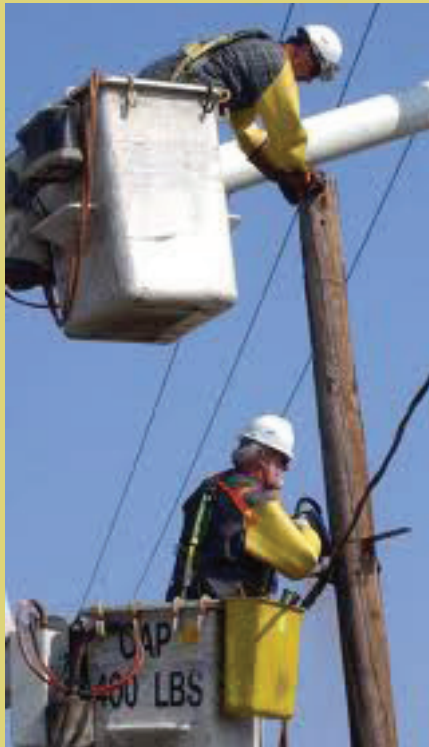
Brazilian communications minister Paulo Bernardo has confirmed that president Dilma Rousseff has asked the communications ministry, Minicom, to outline a national project to extend fiber optic network infrastructure to all the country's regions within the next ten years.

The minister said the government has earmarked an initial budget of \$51.2 billion for the project, which will include partnerships with the private sector, tax breaks, credit from national development bank BNDES, and investment from state-controlled telco Telebras.

According to Bernardo, the program is still being studied by the government, with authorities and regulators looking at similar initiatives elsewhere to define the

most suitable model. The results will be forwarded to president Rousseff.

Another measure under consideration is to include clauses stipulating investment in the terms of the future 700MHz tender, which is for the expansion of 4G in Brazil. According to the minister, the government could give away part or all of the earnings obtained from the tender, in exchange for investments in telecoms infrastructure such as fiber.



New transmission line

Beginning in May, PPL Electric Utilities will install a 2.2-mile underground transmission line in Carlisle, Pennsylvania. The project will extend from a substation on North Spring Garden Street to a West Carlisle substation off Route 641.

PPL spokesman James Nulton said construction would take about a year. The project will cost about \$14 million in 2013 and an additional \$5 million in 2014 for a total project cost of \$19 million.

PPL expects to spend about \$1 billion during 2013 in transmission and distribution infrastructure improvements. Overall, the company anticipates investing \$3.8 billion in these projects up to 2016.

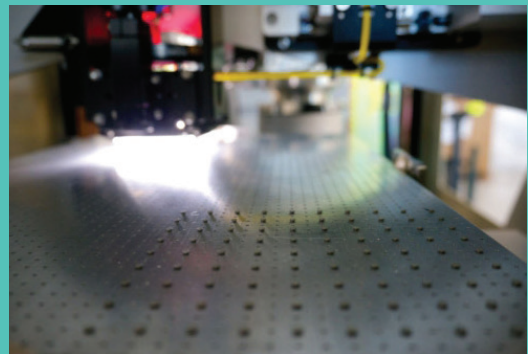
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New micro fastener

DWFritz Automation Inc has announced a new company division, DWF Products™, created to serve advanced manufacturing businesses with standardized assembly and automation equipment.

The first product available in the DWF Products line is the M1500™ micro fastener system, developed for the consumer electronics manufacturing industry to automatically insert PennEngineering's microPEM® self-clinching TackPin™ fasteners as an alternative to screws or spot welds. DWFritz Automation partnered with PennEngineering to create this solution for makers of phones, tablets, keyboards and related goods.



The two companies are jointly demonstrating the capabilities of the M1500 and advantages of microPEM fasteners.

The M1500 micro fastener system features a custom micro fastener handling and loading system, a servo-controlled press with insertion force feedback, and SplitVis™ technology to assist in placement of the TackPin fasteners in the product, allowing for variable distances or thicknesses.

The M1500 has a throughput of over 30 placements per minute, with an accuracy of ± 50 microns.

The system can be used for assembly of small electronic devices ranging from a standard cell phone to a 15" laptop computer.

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Clinic compounds

Three new thermoplastic elastomer (TPE) wire and cable compounds from Teknor Apex Company are said to combine the rubber-like durability and flexibility valued by clinical professionals with the high degree of purity required for medical standards.

Medalist® 8421, 8431, and 8451 elastomers can be used for insulation, jacketing, and molded fittings and connectors. They have Shore A hardness levels of 92, 69, and 82, respectively, a flammability classification of HB (UL-94), and a maximum continuous operating temperature rating of 105 °C (UL-1581). The three compounds retain high levels of tensile strength, tensile

modulus, and elongation after autoclave, gamma irradiation, and EtO sterilization. They are resistant to the cleaning solutions commonly used in medical facilities.

The new TPEs are analogs to specific Elexar® non-medical wire and cable compounds from Teknor Apex and provide comparable properties, but are manufactured in an ISO-13485 facility dedicated to Medalist medical elastomers. Medalist compounds pass ISO-10993-5 cytotoxicity testing, are RoHS and REACH compliant, and are free of animal-derived materials, phthalates, and latex proteins.

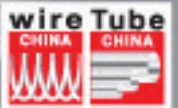


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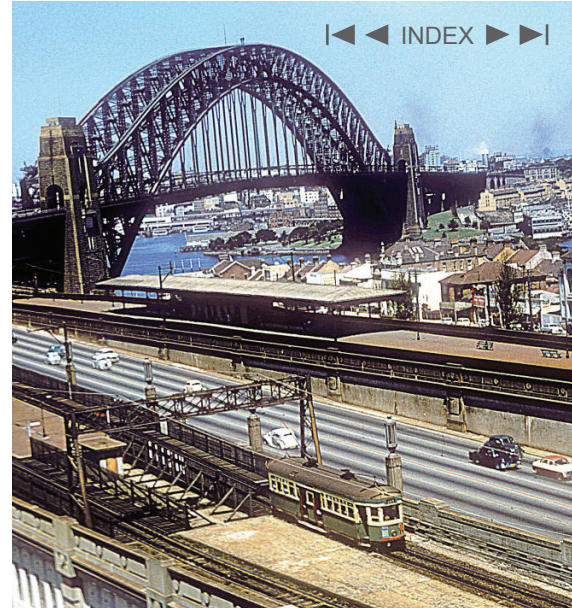
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EUROPE NEWS

Picture : www.bigstockphoto.com 'Spring' Photographer - 'Rafal Steciuk'



Going underground Down Under

UK manufacturer Ellis has received a substantial order for its one hole aluminum cable clamps, Vari-cleats and Vulcan+ cable cleats for use on the Sydney rail network, currently undergoing a significant upgrade.

Ellis's cleats will secure three 300mm² 33kV cables installed in a rail tunnel that runs from the Argyle substation, at the southern end of the Sydney Harbour Bridge, to the new Art Gallery substation on the east side of the city's Botanic Gardens. The upgrade of this 3km stretch of tunnel is due for completion in late 2013.

Ellis secured the specification through its Australian distributor, Sydney-based IPD Industrial Products. The company has been part of Ellis's worldwide network of distributors since 2001 and has helped

to create a real name for the British manufacturer in Australia.

Tony Conroy, export sales director of Ellis said: "Our export strategy has always been to identify the very best local distributors and work closely with them in building our name and reputation in their country."

Ellis's cable cleats are designed and manufactured to secure electrical cables in a manner that can withstand the forces generated by the cables, including those generated during a short circuit fault. Its Vulcan+ cleats and Vari-cleats are tested to the highest safety standards and benefit from 316L stainless steel manufacture and integral low smoke and fume zero-halogen polymeric liner and base pads.

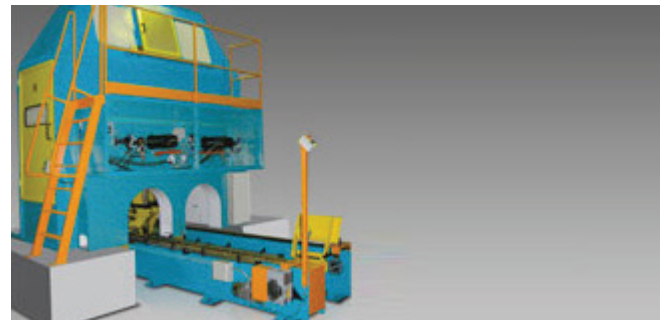


Cable recycling plant

Danish manufacturer of recycling equipment Eldan Recycling A/S has delivered a cable recycling plant to the municipality of Faaborg-Midtfyn in Denmark. The first machine, a Micro Module, was installed at the beginning of 2012 and was run at full production throughout the year. In November 2012 the second machine, a Rasper R400-3, was delivered and successfully integrated with the Micro Module. Eldan Recycling's machines have a modular design to enable a number of different combinations.

"The modular approach is one of our trademarks. It gives our customers possibility to gradually grow their business as we see at the municipality of Faaborg-Midtfyn. The Rasper R400-3 will increase capacity and make it possible to process larger cables," said Mr Flemming Hansen, product manager at Eldan Recycling.

The Faaborg-Midtfyn plant processes dry cables collected from building and restoration projects within the municipality, and the output material is sold to metal traders. The processing capacity will be approximately 400kg per production hour.



Cortinovis incorporates Sictra

Cortinovis has incorporated the Sictra drawing division, integrating a range of products for cable processing from copper or aluminum rod, to cable production, laying-up and armoring.

Sictra specializes in the design and manufacture of a wide range of wire drawing machinery for non-ferrous wires such as copper, aluminum and alloys. Sictra's production program includes rod breakdown and multiwire machines, intermediate-fine wire drawing lines, spoolers, coilers and complete production lines to draw "trolley" grooved contact wire.



Undersea to Scilly

Fiber optic cables, unused on the Atlantic seabed for about three years, are to be diverted to the Isles of Scilly in a £3.7 million scheme to provide islanders with the fastest broadband speeds. A cable ship will spend about a month cutting and moving the two cables, which were previously used for communications between the UK and Ireland and Spain.

Ranulf Scarbrough, Superfast Cornwall program director for BT, said: "BT engineers have devised a highly innovative and environmentally-friendly scheme to bring fiber broadband to the islands. It is certainly the most ambitious initiative of its kind ever undertaken in UK waters and probably in Europe.

"The remote location of the Isles of Scilly, their wonderful maritime heritage and scientific and environmental status will present a variety of unique engineering challenges, but BT has extensive experience of laying subsea cables in sensitive locations around the UK and further afield."



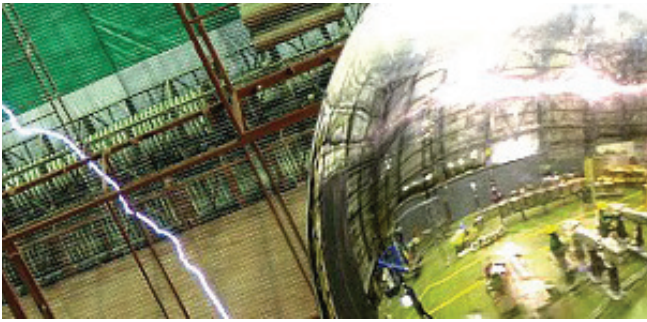
High-voltage to Heimaey 2013

ABB has received an order from the Icelandic transmission system operator Landsnet to supply a high-voltage submarine and underground power cable system to transport electricity from the mainland to the volcanic island of Heimaey.

Heimaey is the only inhabited island of the Vestmannaeyjar archipelago off the southern coast of Iceland. The new 72kV cable system will replace an aging existing cable. It will increase the transmission capacity of the existing link to supply power to the island's 4,100 inhabitants and thriving fishing industry.

ABB will deliver the entire 17.5km high-voltage cable system, including a 13km submarine section, a 4.5km underground section and an integrated fiber optic cable. ABB is also responsible for design, engineering, submarine cable laying, joints and terminations, testing and commissioning.

ABB projects include offshore wind farm connections, power-from-shore links to offshore oil and gas installations, subsea power interconnections, mainland to island power links, underground city in-feeds, and the integration of renewables with the power transmission grid.



Dolwin3 project

Alstom Grid, on behalf of the Dutch-German grid operator TenneT, has awarded Prysmian Group a major contract for the connection project DolWin3. The project involves supply, installation and commissioning of high-voltage direct current (HVDC) 320kV extruded submarine and land power cable connections with a rating of 900MW and an associated fiber optic cable system, comprising a 78km land route and 83km subsea route.

The connection will link the offshore converter platform DolWin Gamma in the DolWin cluster zone, located approximately 85km offshore in the North Sea, to the mainland with the purpose of transmitting power from renewable sources into the German Grid.

Cables will be installed through environmentally significant areas both on land and at sea, including along the Ems estuary, and is the first DC grid connection project to follow this route. The HVDC system installation will be completed by December 2016.

Leoni harnesses Ssangyong

Leoni's Korean branch, headquartered in Busan, has received an order from Ssangyong Motor Company to deliver cable harnesses.

The company will develop, produce and deliver several types of cable harnesses for a new, compact SUV due to enter the market in 2015. Ssangyong plans to produce it in Korea for the local market as well as for export.

Leoni's South Korean entity was formed from the former local wiring harness manufacturer Daekyeung, which was acquired at the beginning of 2012. Due to high integration and start-up costs, restructuring expenses and a weak operating performance, the earning contribution was negative in the last year, and the management expects a neutral result in 2013.

"The new order from Ssangyong will contribute to the positive development of the business in the mid-term," said Dr Andreas Brand, member of Leoni AG's management board in charge of the wiring systems division.



Energy in Laconia

PV manufacturer Conergy has announced the installation of a 500kW solar plant in Molai, in the province of Laconia in southern Greece. Located a few kilometers south of Sparta on the Peloponnese peninsula, the solar plant will be built on a 20,000m² site.

The company has supplied over 2,000 Conergy PowerPlus modules to the plant, which is estimated to generate a 659,000kWh annually - enough electricity to power 187 houses, about a fifth of the population of Molai. The solar plant will be connected to the local grid through the use of 30 Conergy IPG 15T inverters.

Stefanos Melissopoulos, Conergy's MD in Greece, said: "It is the fifth solar installation so far this year – a huge achievement for us here in Greece, particularly in view of the country's current economic difficulties."

A spokeswoman for the investor said: "Greece enjoys a huge amount of sunshine – so it makes sense to invest in solar."

Turkey steel wire exports rise

According to data released by the Turkish Statistics Institute, Turkey exported 68,033 tons of steel wire products in January, a rise of 15.95 percent from the previous month and a 6.2 percent increase year-on-year.

The export prices of steel wire products averaged at \$606 per tonne in January, lower than the \$655 per tonne in the same period a year ago.

During 2012, Turkey's exports of steel wire products amounted to 893,417 tonnes, falling by 20.7 percent year-on-year. The export revenues generated by steel wire products totaled \$573.25 million, a 26.1 percent year-on-year reduction.



IWMA

New executive board member



The International Wire and Machinery Association has welcomed Willibert Dautzenberg of Queins Machinery GmbH to the executive board.

Mr Dautzenberg has been a director of Queins, based in Monschau, Germany, since 2011 and has a special focus on developing customized solutions for the wire, steel rope and umbilical industry, with a responsibility for the project management and integration of

the latest technological developments for the complete range of Queins products.

Mr Dautzenberg, a certified engineer, entered the wire and cable industry in 1993 when he joined Queins to work on the development of hardware and software for machine controls.

In 2008, he moved into the company's technical sales department where the expertise he had amassed during his 15 years working in worldwide commissioning and customer services enabled him to benefit many major projects.

On the subject of his recent election to the executive board Mr Dautzenberg said: "I am very much looking forward to working with the executive board in supporting the IWMA membership network and providing input on wire industry technical developments and production trends that may benefit the association members."

www.iwma.org

Interwire-bound IWMA

Interwire is the largest and longest-running wire and cable marketplace in the Americas and is an international trade event that includes exhibiting companies, speakers, and attendees from more than 50 countries around the world.

Introduced in 1981 and organized by the Wire Association International (WAI), the show crosses dozens of vertical industries including

automotive, construction, aerospace, transportation and communications, among others.

Interwire 2013 will take place from 23rd to 25th April at the Georgia World Congress Center, Atlanta, Georgia, USA, and the IWMA will be there, so please call by and visit us on booth number 902.



The 6th biennial world conference at the Palazzo Turati in Milan, Italy, on the 4th November 2013.

This year's theme will be ***"Innovations driving worldwide wire and cable markets"*** and will feature a panel of both ferrous and non-ferrous expert speakers, presenting papers on the latest technological developments within the industry.

For more information, **visit the website**, email info@iwma.org or telephone: **+44 (0)1926 834680**.

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ASIA & AFRICA NEWS



World's largest solar power plant

United Arab Emirates has officially opened the world's largest concentrated solar power plant, a \$600 million project to provide electricity to 20,000 homes.

Gulf News reported that president of UAE and the ruler of Abu Dhabi Sheikh Khalifa bin Zayed Al Nahyan inaugurated the Shams 1 solar power station in Madinat Zayed, in the presence of Sheikh Mohammed bin Rashid Al Maktoum, vice president and prime minister of UAE and ruler of Dubai.

The construction of Shams 1, a joint venture between Masdar, a company based in Abu Dhabi and international operatives such as Total and Abengoa, began in the third quarter of 2010 and will produce 100MW of electricity.

With this new solar project, Masdar will be producing 10 percent of the world's renewable energy, said Sultan Al Jaber, CEO of Masdar, adding that the UAE is now producing 68 percent of the total renewable energy produced by the members of Gulf Cooperation Council, a political and economic union of the Arab states bordering the Persian Gulf.

The solar park features long lines of parabolic mirrors spread over an area equivalent to 285 football pitches in the desert of the Western Region, 120 kilometers southwest of Abu Dhabi.



Alba joins Aluminum Extruders Council

Aluminium Bahrain (Alba), one of the largest aluminum smelters in the world, has become a member of Aluminum Extruders Council, an international association for extrusion companies and suppliers in the US.

Alba's membership into this community of over 100 major North American extrusion companies will enable it to join in with the exchange of technical and commercial information, as well as contribute knowledge and expertise in the production of high quality value added aluminum, a company statement said.

Alba is a major producer of aluminum ingots and slabs, and supplies liquid metal to companies including Midal Cables, Bahrain Alloys Manufacturing Company (BAMCO), and Bahrain Welding Wire Products Mfg Co (BWP) for production of primary aluminum alloys and master alloys. Primary aluminium-based EC rod, alloy rod, and wire and alloy ingot are produced from liquid metal. Other applications include aluminum wires for electrical and mechanical use, curved line conductors, aluminum clad steel (ACS) wires for transmission lines, and solid conductors.

Grid crisis looms for Israel

Haaretz is reporting that the Israel Electric Corporation has cut investment in transmission by 50 percent in recent years, even though its own power generation capacity has increased by 15 percent in five years, and privately-owned power stations and renewable energy are gaining ground.

The volume of 161kV lines has increased by only five percent, and no 400kV lines have been built. Aging high-voltage power lines need upgrading and the country experiences unreliable supply and frequent breakdowns.

As a result, the Israel Corporation was denied permission to build another power plant at Mishor Rotem, next to its new OPC plant. A 17km, 161kV high-voltage line was specially erected by the electric company, but a second plant would require a 400kV line and cost hundreds of million of shekels.

A 400kV line currently stretches to Ramat Hovev, where it splits into two 161kV lines. It will carry power generated by the planned 250MW solar energy station at Ashalim.



New wire rod processing facility

Kobe Steel's joint venture, Kobelco Spring Wire (Foshan) Co Ltd (KSW), has begun steel wire production in China.

KSW was established in January 2012 in Foshan, Guangdong Province to produce and sell steel wire for high-quality springs. The company has a production capacity of 600 metric tons per month. KSW is 50 percent owned by Kobe Steel through its subsidiary Kobelco Holding (China) Co Ltd, with Shinko Wire Company Ltd and Suncall Corporation each having a 25 percent equity share.

Kobe Steel is said to have approximately 50 percent share of the world market for steel wire rod, the base material for steel wire. Booming demand in China led Kobe Steel to form KSW, its first overseas company to process wire rod into wire for use in engine valve springs and other spring products.

Kobe Steel already has two companies in Thailand, one in the United States, and three in China that process steel wire rod for suspension springs and CHQ (cold heading quality) wire rod for fasteners.



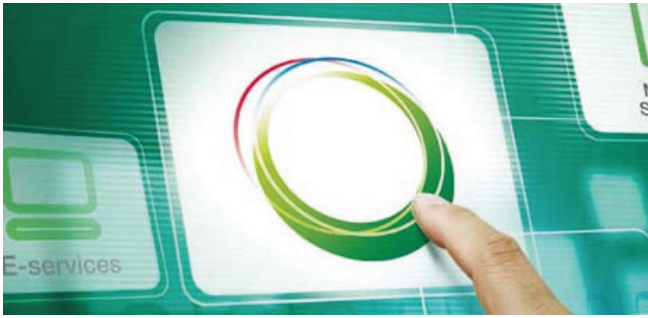
Chinese cable maker buys Asian assets

Shenzhen Woer Heat-Shrinkable Material Co Ltd is to buy the Asian consumer electronics assets of American cable maker Belden Inc. The acquisition of Belden's Hong Kong-based LTK International subsidiary will give Shenzhen Woer substantial additional manufacturing capacity in China. It is also designed, company officials said, to expand its presence in the electronics industry and speed development of environmentally oriented cross-linked materials.

Woer products include cross-linked polyethylene wires, heat shrinkable tubing and materials, poly-tetrafluoroethylene tubing and EPDM elastomer tubing.

Belden bought LTK in 2007 for \$195 million. At the time, Belden said LTK had 2006 annual sales of about \$220 million. Belden says the Woer deal involves only a part of the original LTK purchase in 2007.

LTK has four manufacturing plants in China and makes products such as PVC and TPE jacketed cables for data, transmission and automotive applications.



Dubai cabling deal

The Dubai Electricity and Water Authority (Dewa) has signed a contract to supply, extend and activate a new 132kV underground transmission cable network to redistribute the electricity load.

“The Dewa is moving forward in the implementation of vital projects, especially 132kV electricity transmission networks. This is to improve the efficiency of our networks, meet the growth and demand for services, especially in the field of infrastructure, and enhance access to these services to the highest levels of efficiency and reliability,” said Dewa MD and CEO, Saeed Mohammed Al Tayer.

The project has three phases with the first phase focused on modifying loads in 132kV electricity transmission networks between Al Quoz and the D Station in Jebel Ali. The second phase involves transferring cable loads between the Bu Kadra station and the 400/132kV substation at the Jebel Ali racecourse. The last phase is the extension of new 132kV cables, to transfer electricity to the network of Jebel Ali Port. The new 274km cable network is expected to be completed by December 2014.



Southern Photonics gives way to Coherent Solutions

New Zealand-based photonics equipment manufacturer Southern Photonics has announced that it will be rebranding as Coherent Solutions with effect from 11th March 2013.

The rebrand has been prompted by the company's development to focus its product portfolio on coherent solutions for the photonics test and measurement instrumentation market. Coherent Solutions will continue to produce specialized photonic instrumentation products extending past the optical communications sector into other applications, which require the generation, characterization and analysis of optical signals and pulses.

Coherent Solutions will not only be a provider of OEM solutions, but will still continue to develop and sell products under its own brand. This will enable the company to assess market developments and conduct field trials before releasing products globally.

To support the continued growth and company expansion Coherent Solutions will be moving during quarter two of this year into a much larger headquarters and manufacturing facility.



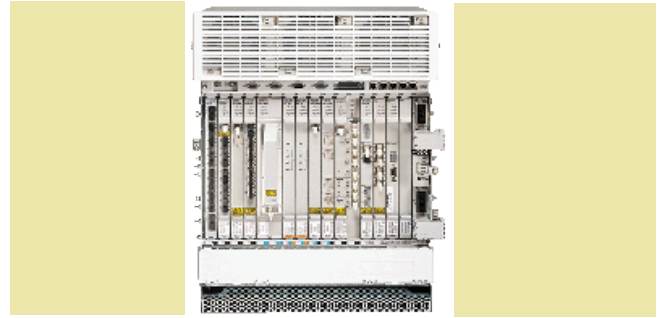
Fiber for the Philippines

Philippine Long Distance Telephone Co (PLDT) is to install over 5,000km of new fiber optic cable facilities during 2013. PLDT said that the investment would extend the total reach of its fiber network to almost 60,000km.

The fiber expansion program will cover the domestic fiber optic network (DFON) used for long haul applications, fiber-to-the-home (FTTH), fiber-in-the-loop (FITL) and other inter-office fiber projects.

The FTTH project will make PLDT's high-speed Internet services available to about two million homes in Metro Manila, the regions of Central Luzon, Southern Tagalog, and the provinces of Panay, Negros Occidental, Cebu and Davao. The additional fiber optical cable (FOC) links include submarine cables that will boost the data connectivity of the islands of Palawan, Bohol and Panay.

Starting in 2013, PLDT will upgrade the capacity of its different cable systems initially up to 40 and then to 100 gigabytes per second.



Subsea upgrade

In a move to drive Internet and broadband development in Africa, communications service provider Seacom has selected Ciena Corporation's 6500 Packet-Optical platform and OneControl unified management system for the upgrade of a submarine network.

The upgrade will benefit key countries in Seacom's 17,000km undersea network, including India, Egypt, Djibouti, Kenya, Tanzania, Mozambique, and South Africa. The deployment will initially use Ciena's 40G coherent transport technology, with ultra-long distance 100G wavelengths planned for future upgrades.

Anticipation is already building ahead of this year's Interwire in Atlanta, Georgia, this month.



INTERWIREFE

23rd - 25th April
Georgia World Congress Center
Atlanta, USA

On the ball for Atlanta

The exhibition – at the **Georgia World Congress Center** – sees the largest wire and cable show in America touchdown from **23rd-25th April**.

And touchdown is a familiar word at this year's exhibition, as **Pittsburgh Steeler Hines Ward** will deliver the keynote speech to delegates at the Tuesday luncheon.

The National Football League great and Superbowl winner is the only player in NFL Pro Bowl history to score a touchdown on an onside kick. Other sporting activity in addition to the exhibitions is a golf tournament and charity 5k road race.

The opening reception takes place in the Omni Hotel Atrium from 6.30pm to 8.30pm on Tuesday.

The exhibition runs from 10am to 5pm on Tuesday and Wednesday, and 10am to 3pm on Thursday.



2013

Interwire 2013 Exhibitor List as at 2nd January 2013

Ace Metal Inc	620	CMEC International Exhibition Ltd	1706b
ACM AB	1512	CMEC International Exhibition Ltd	1706c
Advantage Austria	1050	CN Wire Corp	624
Advaris GmbH	1070	Cogebi Inc	149
AEB International Inc	240	Collins & Jewell Company Inc	1860
AEI Compounds Ltd	252	Cometo SNC	424
AESA SA	120	Cometo SNC	1351
AIM Inc	1014	Commission Brokers Inc	705
All Forming Machinery Inc	770	Condat	1650
Amacoil Inc	713	Conductix Wampfler	1955
Amaral Automation Associates	2034	Conneaut Industries Inc	715
American & Efid Inc	606	Continuus Properzi SpA	940
American Kuhne	1723	Continuus Properzi SpA	1818
Anbao Wire & Mesh Co Ltd	331	Cortinovis Machinery America, Inc.	1739
Appliance Materials Co Ltd	143	CPA Wire Technology GmbH	763
ATE	1814	Custom Downstream Systems Inc	765
AW Machinery LLC	1723	Custom Machining & Fabrication LLC	770
AXIS Computer Systems Inc	1503	Daloo - Gauder Group	1932
Axjo America Inc	1940	Davis-Standard LLC	1350
Aztech Lubricants LLC	569	DEM Costruzioni Speciali Srl	1712
B&H Tool Company	1916	Design & Engineering LLC	812
B&Z Galvanized Wire Industry Inc	1602	Die Quip Corp	1003
Ballobet Die Corporation	114	Domeks Makine Ltd Sti	1340
Bartell Machinery Systems LLC	749	Dunst GmbH	1050
Baum's Castorine Co	2128	Dynamex Corporation	2124
Beijing Orient Pengsheng Tech Co Ltd	116	Ebner Furnaces Inc	1661
Bekaert Corporation	423	Eder Engineering GmbH	1050
Bergandi Machinery Co	701	EJP Maschinen GmbH	1351
Besel Basim San Tic Ltd Sti	457	Electron Beam Technologies Inc	112
Beta LaserMike	631	Enercon Industries	453
Blachford Corp	506	Enkotec Co Inc	570
Bock GmbH & Co KG	1512	Engineered Machinery Group Inc	702
Bogimac Engineering	2144	ERA Wire Inc	302
Boockmann GmbH / The Slover Group	164	Er-Bakir™ Elektrolitik Bakir Mamulleri A.S.	624
Bow Technology - Gauder Group	1932	Estane Engineered Polymers/Lubrizol	618
Boxy SpA	2133	Esteves Group USA	806
Breen Color Concentrates Inc	2114	Etna Products Inc	235
Brookfield Wire Co	2015	Euroalpha	1812
Buhler Wurz Kaltwalztechnik GmbH	740	Eurobend GmbH	1058
Butt Welders USA	2148	Eurolls SpA	1739
Caballe SA	212	Eurowire Magazine	1655
Cable Consultants Corp	1024	George Evans Corp	139
Calmec Precision Ltd	2056	E V G	140
Candor Sweden AB	124	Evolution Products	2011
Canterbury Engineering Co	858	Fabritex Inc	650
Carris Reels Inc	1524	Fasten Group Import & Export Co Ltd	264
Cary Compounds LLC	2111	FIB Belgium SA	2117
Ceia USA	134	Fil-Tec Inc	1502
Cemanco LC	717	Filtertech Inc	863
Central Wire Industries Ltd	1949	Finoptics Inc	970
CeramTec AG	717	Fine International Corp	1040
Chase / NEPTCO	564	Fisk Alloy Wire Inc	2140
Chase Wire and Cable Materials	564	Flymca & Flyro	215
Chemetall US / Chemetall Oakite	352	FMS USA Inc	616
Chengdu Centran Industrial Co Ltd	970	Foerster Instruments Inc.	549
Cimteq Ltd	2032	Fort Wayne Wire Die Inc	1532
Clayton Industries	1064	Fortune Machinery Corp	866
Clifford Welding Systems	1731	OM Frigerio	1512
Clinton Instrument Co	901	Frontier Composites & Castings Inc	2012
CM Furnaces Inc	553	FSP - One Inc	2118
CMEC International Exhibition Ltd	1706a	Fuhr GmbH & Co Kg	1856

G C R Eurodraw SpA	1712	Leoni Wire Inc	640
Gauder Group Inc	1832, 1932	OM Lesmo Group	424
Gavlick Machinery Corp	866	Lesmo Machinery America Inc	412
Gem Gravure Co Inc	706	Lesmo Machinery America Inc	424
Genca	858	Lisciani	1816
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Advaris GmbH

Booth 1070

The Advaris modules for product data management, manufacturing execution and enterprise resource planning (ERP) guarantee smooth integration and the optimisation of processes for companies in the cable industry which are not able to exploit their potential with conventional ERP systems.

Advaris provides optimised industry-specific processes and functions from cable design and the issuing of quotations to manufacturing, quality control, delivery and invoicing.

Advaris GmbH – Germany

Website: www.advaris.com

AEI Compounds

Booth 252

Having developed and manufactured wire and cable compounds for over 30 years, AEI Compounds is able to offer a comprehensive range of compounds to meet many of the main wire and cable applications for the European, Asian, Middle Eastern and Far Eastern markets.

The company also works with customers to develop compounds that require compliance to more local and specialized applications such as in the US market.

Products include insulation and sheathing compounds and an extensive range of halogen free grades. Manufacturing both thermoplastic and crosslinkable types, AEI offers the cable designer a wide choice of products to fulfill requirements of most common cable constructions.

AEI Compounds – UK

Website: www.aeicompounds.com

AIM Inc

Booth 1014

AIM will be presenting the newest innovation in wire bending: the Synchro bender. This patented bender allows complex forms to be made without sophisticated tool configuration. In addition to the Synchro, AIM will present the new Accuweld line with exclusive features.

The company also specialises in completely automated robotic work cell solutions that take wire from coil, and form, weld and systematically arrange the finished parts. In all instances, wire can be fed directly from a coil, straightened, bent and cut using a software package that provides flexibility and simplicity in programming and is offered in all 'universal languages'.

AIM Inc – USA

Website: www.aimmachines.com

Anbao Wire & Mesh Co, Ltd

Booth 331

Anbao is a manufacturer and exporter of steel wire products, galvanized steel wire and strands, Galfan wire and strands, including ACSR wire and strand, overhead ground wire and message strand, message/guy/stay/span wire and strand, aliminum-clad steel wire and strand, armoring cable wire and braiding wire.

The company also supplies stainless steel wire for weaving, braiding, knitting and

lashing wire, and is also engaged in various metal wire mesh products. Anbao operates under the ISO 9001 and 14001 quality control system.



Anbao (Qinhuangdao) Wire & Mesh Co, Ltd
– China
Website: www.anbao.com

Aztech Lubricants
Booth 569

Aztech Lubricants is a global provider of wire drawing and lubricant solutions. With over 125 years of cumulative expertise, the company provides a full line of calcium, sodium and potassium stearate drawing powders, RP oil, drawing oils and precoats.

Key name brands that will be showcased at this year's Interwire include EZDraw, EZClean and EZCoat. The company also offers a complete line of AZWipe spiral brushes, for an easy method to remove excess scale, rust or coatings from wire.

Aztech Lubricants has manufacturing and distribution capabilities in the USA, South America and Asia.

Aztech Lubricants – USA
Website: www.aztechlube.com

B&H Tool Company
Booth 1916

B&H Tool Company provides tooling solutions to improve the quality of extruded products and reduce scrap and set-up.

At Interwire, the company will showcase the BH25A MicroCrosshead with Spiral Deflector, claimed to be the industry's lowest area micro crosshead, delivering microextrusion performance for insulated fine wire, fiber optics, and microbore tubing. Major medical equipment manufacturers have documented significant improvements in micro extrusion process capability and stability using the BH25A MicroCrosshead.

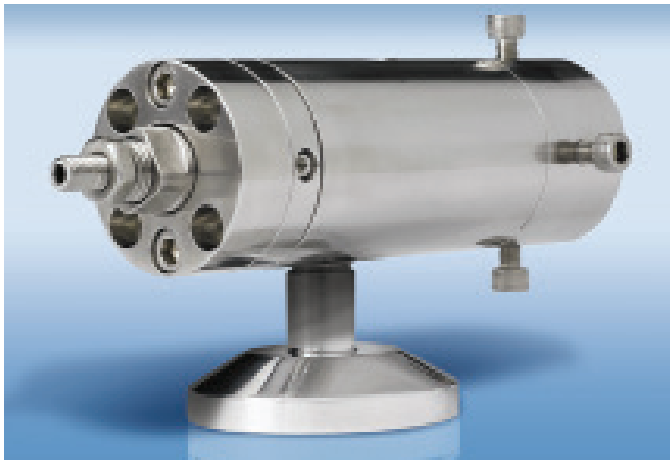
For FEP applications, the BH25A crosshead insulates fine wire with a finished OD of 0.00471" and core OD of 0.00157". Tolerances depend on process and material, but are in the range of +0.0005".

The company will also display its plastic extrusion tooling, including adjustable center crossheads, fixed center crossheads, multi-layer crosshead assemblies, tips and dies, and accessories, including extrusion heaters and striping attachments.

B&H produces plastic extrusion tooling for insulated wire, jacketed cable, tubing, hose, pipe and profiles, specializing in practical solutions that minimize life cycle costs, reduce set-up and scrap, and meet specific needs such as lowering temperature profiles and increasing line speeds. The company provides comprehensive engineering, production and technical support to companies who manufacture wire, cable, tubing, hose, pipe and profiles.

At Interwire, B&H Tool Company will offer four important free tools: a crosshead

replacement calculator, tip and die cost calculator, tooling calculator, and DDR/DRB calculator.



The company's Extrusion Process Analysis Package can quickly and efficiently identify the root causes of difficulties related to surging, dimensional variation, crystallisation, knit lines, and other problems not covered by equipment manuals or material spec sheets.

B&H Tool Company – USA
Website: www.bhtool.com

Baloffet
Booth 114

Headquartered in France, Baloffet has been manufacturing dies since 1870 and has three subsidiary companies in the USA, UK and Germany, as well as a worldwide network of agents. The company has maintained all its die production in Europe.

The company produces natural diamond dies from 6 μ to 3mm, synthetic mono-crystalline dies from 6 μ to 1mm, poly-crystalline (PCD) dies from 50 μ to 30mm, compacting, stranding and special shaped dies, enamelling guides, extrusion tooling (guides and dies), special tooling with

diamond insert and repolishing machines and equipment.

Baloffet also offers repolishing, training of operators and technicians in its own training center and showroom or at the customer's plant, and control and technical report of customers' dies.

Baloffet – France
Website: www.baloffetdie.com

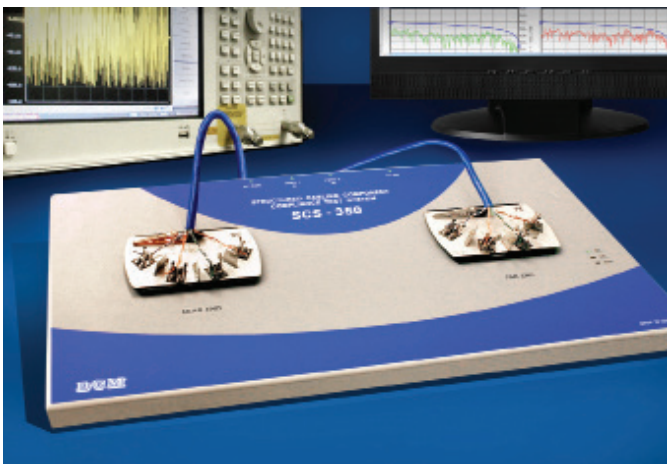
Beta LaserMike
Booth 631

Beta LaserMike, a provider of precision measurement and control solutions, will exhibit its complete system solution for the in-process measurement and automated quality control testing of communication cable at this year's Interwire.

“In these competitive times, when cable manufacturers are worried about how they can be more profitable, we believe it is more important than ever to educate them about the power of an integrated measurement and controls system,” said Bob Stockholm, Beta LaserMike's director of sales for the Americas. “We want to demonstrate that by implementing highly accurate measurement and control solutions along the critical points in the cable extrusion process, manufacturers can significantly increase productivity, reduce waste, and improve product quality to successfully grow their business.”

Beta LaserMike plans to display a complete cable extrusion line measurement and control system with gauges in place from the extruder through the puller station. The integrated system solution includes: pre-heater system for uniform, in-process

wire heating to eliminate insulation voids in primary cables; AccuScan system for precise on-line measurement of cable diameter and ovality; CapScan system for accurate on-line measurement of cable capacitance; CenterScan system for accurate, reliable monitoring of insulated cable diameter and eccentricity of conductors; lump and neckdown detector system, including the new LN3015 3-axis gauge; and high-frequency spark tester for on-line detection of faults in cable insulation, such as voids and pin holes.



Also included is the LaserSpeed system for non-contact length and speed measurement of moving product with $\pm 0.05\%$ accuracy and $\pm 0.02\%$ repeatability; BenchMike bench-top system for fast, accurate dimensional measurement of cut product samples; DataPro process controller and data management system; LayScan system for accurate, consistent cable lay length measurement of twisted pairs; and SRL Pro on-line structural return loss (SRL) prediction and analysis system.

Beta LaserMike will also be displaying its line of bench-top DCM testing systems for LAN/data cable, such as the DCM Model ES-2G for quality testing 4-pair category cables up to 2 GHz, and DCM Model SCS-350B for quality testing 4-pair category

cables up to 600 MHz. The DCM line of cable testing systems includes bench-top and fully integrated turnkey solutions for accurately and reliably testing LAN/data, telecom, coaxial, and aerospace/defence cables.

Beta LaserMike – USA

Website: www.betalasermike.com

Blachford Corp

Booth 506

In 2008, a Georgia, USA, sugar mill suffered a devastating explosion due to the presence and subsequent ignition of a combustible dust cloud. The accident resulted in the deaths of 13 people and changed the way industrial manufacturers manage and mitigate dust-related risk.

This accident illustrated the risk associated with combustible dusts and soon thereafter OSHA began an intensive review of workplace safety in dust producing processes. At the same time, wire manufacturers intensified their search for ways to reduce both the creation and accumulation of dust in their facilities. As part of their search, a number of wire drawers asked Blachford Corporation for technological developments that would reduce dust creation during steel wire drawing.

For over 50 years Blachford has been active as an innovator and a technical solutions provider for the global wire drawing industry. The company tailors lubricant programs to the technical specifications of customers' processes. Blachford provides new technology products to wire producers in support of their ever-changing needs.

Blachford's efforts led to the development of its newest technology products: Low Dust Drawing Lubricants. These dry lubricants reduce the creation of observable dust, and in some processes can result in increased drawing speeds, reduced lubricant consumption and extended die life. There is the additional potential of providing improved corrosion resistance.

At Interwire Blachford will present a technical paper on "The Potential for Lubricant Dust Explosions in the Wiredrawing Industry", and will share information with customers at the company's booth.

Blachford Corp – USA
Website: www.blachford.com

Bow Technology
Booth 1932

Bow Technology is the answer to cable makers concerned by quality and long-life reliable bows for all brands of double twist machines.

With a comprehensive range of over 500 designs in constant evolution, the division offers a global service from conception to production. The company is the owner of the patented GreenBow, a unique design enabling important energy savings.

Bow Technology – France
Website: www.bowtechnology.com

CM Caballé, SA
Booth 212

With over 60 years of experience in the design and manufacture of rotating

machinery for the production of power and telecommunication cables and steel ropes, CM Caballé provides the cable industry with a wide array of stranding, twinning, bunching and cabling machinery. The firm is constantly developing new, high quality equipment to meet the ever-changing needs of the wire and cable industry.



The company's portfolio includes equipment for power cables (double twist stranders, rigid stranders, drum twisters, single twist stranders, bow skip stranders, tubular stranders, planetary stranders and SZ stranders); telecom and LAN cables (double twist pairing-quadding machines, single twist cabling lines, group twinners, drum twisters, shielding-jelly filling-sheathing lines and SZ stranders); steel ropes (double twist stranders, tubular stranders, planetary stranders and bow skip stranders); and ancillary equipment (payoffs, take-ups, capstans, caterpillars, taping machines and binders).

At Interwire, the company will show a new range of rigid stranders and drum twisters that have been redesigned and upgraded in collaboration with energy cable producers to manufacture products such as compacted conductors of copper and aluminum for LV, MV, HV and EHV insulated conductors; sector conductors (Milliken) of copper and aluminum for high and extra high voltage insulated conductors; aluminum overhead conductors (AAAC, ACSR) with round or trapezoidal wires; screening with

copper wires (single or multi-wire) for MV and HV conductors; and armoring with galvanized steel wires.

CM Caballé, SA – Spain
Website: www.cmcaballe.com

Candor
Booth 124

Candor Sweden AB and its US representative Kinrei of America will be introducing the new design of Candojet, for high speed hot water and steam cleaning of wires. The unit is compact and offers efficient cleaning after drawing or rolling mill process.

Other new design developments will include a modular design of high speed



copper coating plant for welding wires; single wire plating plants for nickel, silver, tin and zinc plating on non-ferrous wire and also available for stainless and carbon steel; ultrasonic and electrolytic cleaning plants for single- and multi-wire applications; and multi-wire nickel or copper coating plants for stainless steel spring wires or CHQ wires. The new enhanced design of the multi-wire coating plant allows high current densities and individual control of each wire with differing speed and plating thickness.

Candor Sweden AB – Sweden

Website: www.candorsweden.com
Carris Reels
Booth 1524

At Carris Reels, safety and strength are of utmost concern when it comes to products, especially its line of plywood reels and spools. In addition to providing strength and durability with optional hardwood flanges, Carris offers reelply, a hardboard-clad plywood.

For over half a century, Carris Reels has provided its customers with high-quality cable reels and spools including plywood reels, plastic reels and nailed wood reels for the wire and cable industry.

Carris Reels – USA
Website: www.carris.com

Chengdu Centran
Booth 970

Centran Industrial is a global supplier of raw materials for the cable and wire industry. It is one of the largest manufacturers of water-blocking tape, water-blocking PET and E-glass yarn, polyester yarn and flame retardant and marking tape in China, and was established in 1997.

The manufacturing facilities located in Chengdu and Wuxi have a total capacity of 5,000 MT for water-blocking tape and yarn. With emphasis on quality and customer satisfaction, the company is ISO 9002 certified and has become a reliable source of quality products in the international market, exporting to more than 45 countries worldwide.

Centran's tapes and yarn are used for power cable, optical cable, copper telephone

cable, data cable and submarine cable, as binding, bedding, barrier and separating functions.

Chengdu Centran Industrial Co, Ltd – China
Website: www.china-centran.com

Cimteq Ltd
Booth 2032

CableBuilder, Cimteq's cable design and quotation software application, helps companies to design wire and cable faster, quote faster and avoid costly mistakes that lead to scrap and re-work.

The application can produce 2D, 3D and profile drawings, and is easy to use and to implement, with features such as fast cable design for all types of cables; easy to use mass-update tools; version control



with version comparison; work-flow and approval control; completely customisable configurations; integration to ERP systems; integrated Crystal Reports engine from SAP; and data import/export with spreadsheets. Other features include fast quotation generation, packaging calculations, length-based costing, production of professional datasheets and manufacturing instructions, cable configuration/variant generator, what-if analysis of value engineering, bill-of-material and routing

generation, and alternative bill-of-material and routing.

Successfully implementing software is a partnership between the cable maker and the software provider. Cimteq states that it understands the requirements of the industry, and is able to provide companies with the flexibility they require.

Cimteq Ltd – UK
Website: www.cimteq.com

Clinton Instrument Company
Booth 901

Clinton Instrument Company, a 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 per cent inspection on the manufacturing line, ensuring product reliability and averting further processing of substandard material. Clinton engineers are available to discuss your pinhole detection application.

Clinton Instrument Company – USA
Website: www.cicsparkers.com

Condat Corp
Booth 1650

Condat's lubricant and surface technology range covers all metal forming applications and the company's commercial network services the metal forming industry worldwide. With over 150 years of expertise in

the lubricant business, Condat continuously improves and upgrades its formulations for better value and in order to match the most advanced environmental regulations.

Condat Corporation is the US-based division of Condat SA. With extensive production capabilities, the subsidiary offers the flexibility and reactivity to fully serve the North American market.

A team of experienced sales engineers can help customers with the wide selection of innovative products and services on offer. Condat recommends the best lubricant solutions combining technical and environmental aspects, as well as economic considerations.

At Interwire Condat will present its latest developments in lubricants and products for wire drawing industries, including Vicafil wire drawing lubricants, Steelskin lubricants for demanding applications, Galvasmooth charcoals for hot dip galvanizing, and Condaclean cleaners for all metal types.

The show will be an opportunity for Condat to promote several recently developed new products, including Vicafil TN 1674 T and Vicafil TN 1608 T, two new sodium-based soaps for high speed drawing of carbon steel grades. TN 1674 T is free of lime and calcium compounds.

The company will also be promoting Vicafil TS 4770 W, a non-reactive pre-coating specifically developed to address the demanding application of in-line coating of stainless steels, immediately in front of the drawing bench.

Condat Corporation – USA
Website: www.condatcorp.com

Daloo
Booth 1932

Daloo is a supplier of equipment for cable producers wanting simple and reliable machines. While the design is based on European experience, the manufacturing is performed in China following strict quality criteria.

The company's complete stranding lines and accessories for the production of power and communication cables are delivered worldwide, including rigid cage stranders, taping lines, rewinding lines, take-ups and payoffs, and pulling caterpillars.

Daloo – China
Website: www.daloo-machines.com

Die Quip
Booth 1003

Many factories take a disposable approach to their dies, looking for a way to reduce cost. This low purchase cost model can have hidden charges that affect the production cost and quality of a mill's efficiency.

High overnight freight and two-way freight fees are regularly absorbed from rush orders when dies are needed quickly or customer requests demand changes to stock. Large inventories, hidden labour and disposal of good dies from short runs are common areas where production costs are increased but not controlled.

An internal die shop can easily eliminate these expensive problems. With the right training and machinery each die is quickly sized for production and can be adjusted immediately to accommodate production runs. Correct die geometry solves many

production problems and good dies pull more wire.



Production costs decrease with an efficient internal die shop, and Die Quip has the expertise, training, support and machinery to get you there. The company's extensive training products include on-site machine training, die making instruction and die design programs for operators and plant management.

Each machine is supplied with Die Quip's exclusive Die Making Handbook that has reference charts, procedures, formulas and die production instructions.

Die Quip – USA
Website: www.diequip.com

Eder Engineering GmbH
Booth 1050

Depending on the quantity of drawn wire and also on the care under which the die tools are being used, all dies are subject to wear. Their best economy and efficiency is achieved if the dies are taken out of the machine for a fast re-polishing when an onset of wear is visible in the drawing cone, where the incoming wire establishes first

contact with the die. By doing so, the die tools can be used successfully and largely with their initial bore diameter for a long time, prior to having to enlarge them to their next larger usable size.

In today's highly competitive wire drawing industry, and with the growing use of multi-wire drawing machines with up to 48 wires drawn on a single machine, a well-equipped and efficiently functioning modern die-workshop is an absolute must, if drawing efficiency and economy is to be maintained at the highest possible level. Unique concepts, such as Eder's USP-Twin and HGM-21 equipment, have been developed to meet all these demands.



Eder-Austria offers a variety of easy to understand and operate state-of-the-art die-reconditioning machines, and its high degree of inherent automation can reduce the number of personnel and the levels of skills formerly required, while at the same time offering longer die life, higher tonnages of drawn wire, and lower operational cost. Correct refurbishment of dies regularly undertaken in time and with appropriate machines can prolong the service life of costly die tools and as such can contribute to the economic welfare higher net product value in a wire and cable plant.

Eder Engineering GmbH – Austria
Website: www.eder-eng.com

Enkotec A/S
Booth 570

At Enkotec's booth, staff will be ready to present news from the area of high-performance machinery for nail production. The company's product range includes various complementary machines supplied as standalone units or in ENKOnline in-line systems.



This year Enkotec will launch an upgrade of the complete ENKOnail+ high-capacity nail machine series. The upgrade includes many advantages, including: disco variator replaced by robust and maintenance-free servomotor drive; more user-friendly software; improved system for insertion timing with easy and quick adjustment; larger eight-groove feed rollers with improved lifetime; pedal for manual drive of machine; exhaust air connections allowing efficient evacuation of dust; improved cooling of machine due to powerful extraction of air; electrical cabinet rubber damping supports to reduce vibration; and a box for nibs inside the machine.

Enkotec nail machines are based on a rotary forming principle, allowing wire feeding, wire cutting and head forming to take place in one continuous process of rotating movements, and offering the possibility of unmanned production.

The company claims that the output-per-minute rate of the ENKOnail+ series is the highest in the market, without affecting the production stability. The dimension range is as wide as $\varnothing 1.8-4.2\text{mm}$ (0.071" to 0.165") x nail lengths 32-130mm (1¼" to 51/8"). The machines incorporate a compact, space-saving design and a user-friendly PLC control system with touch screen operator interface, which is easy to navigate and allows quick setup of nail parameters.

Tooling changeovers and maintenance routines are easy to carry out owing to the user-friendly open-door machine design. At the same time, Enkotec's machine concept allows the implementation of an environment-friendly production with a low noise level, small energy consumption and an oil-free manufacturing process, eliminating the need for subsequent nail tumbling.

Enkotec A/S – Denmark
Website: www.enkotec.com

Esteves Group
Booth 806

The Esteves Group is a global company with almost 100 years of expertise in the production of dies, extrusion tools, machines for die reconditioning and refurbishing services.

The group is committed to continue expanding and strengthening its worldwide network of production and service facilities in order to support customers in optimising their processes.

Esteves Group – USA
Website: www.estevesgroup.com

Eurolls
Booth 1739

Over the past year, Eurolls SpA has been conducting several studies on the use of rolling cassettes versus dies, for special applications. With the cooperation of several key customers, the company has been able to perform these tests with optimal results.

Consequently, in 2012 Eurolls supplied a large quantity of rolling cassettes to major producers of welding wire and special alloys. Eurolls can guarantee very precise tolerances, not only for materials made of low, medium and high carbon, but also on wire made by special materials. The latest Eurolls rolling cassettes are able to achieve final diameters smaller than 1mm.

The Italian company has demonstrated throughout the years its commitment to evolving the rolling cassette technology, since it was first introduced by Eurolls in 1996. Eurolls completely understands the wire production process, and claims to be the only rolling cassette manufacturer that produces all of its own internal parts, including the cassette body and the rolls.

In 2013, Eurolls plans to introduce its latest innovative rolling cassettes to the world market.

The company has recently closed important orders throughout the USA, Mexico and Canadian markets, for different Eurolls products, including machinery and equipment for the wire sector, and roll tooling for the tubing sector. Thanks to a new working agreement, Eurolls will soon provide regrinding services for tube mill rolls in the USA, and will continue to provide wire and tube mill regrinding services at the Eurolls De Mexico facility, located outside Monterrey, Mexico.

Eurolls SpA – Italy
Website: www.eurolls.com

Flymca and Flyro
Booth 215

For many years Flymca has been producing standard and traditional rotating machines such as rigid, tubular, skip, and planetary stranders as well as drum twisting lines, bow cablers, and double twist bunchers.

The company, which produces payoffs and take-ups for bobbins up to 8,000mm/650 tons, is now also involved in the production of special equipment used for submarine, offshore and umbilical cables production, as well as machinery for steel rope manufacturing.

Flyro is also buying and selling used equipment for the wire and cable, tube and bar industry.

Flymca and Flyro – Spain
Website: www.flymca.com

Gauder America
Booth 1832

The newly created Gauder America will be present on the Lloyd & Bouvier, Inc booth, since the companies entered into a joint venture agreement for better serving the USA and Canada used machines markets.

The Belgium-based supplier has in stock more than 1,000 machines ready to manufacture wires, conductors, cables, ropes and steel products. A large stock of equipment and any new entries can be viewed in real time at the company's website.

Gauder America – Belgium
Website: www.gauderamerica.com

Gauder Group, Inc
Booth 1932

With over 20 years of continuous presence and after several recent major machine installations in the USA, the Interwire 2013 show is an opportunity for the Gauder Group, Inc to highlight the joint rebranding of its Pourtier and SETIC product range as a combined entity, Pourtier & SETIC of America.

Based in France, both are leaders in rotating machines for the non-ferrous wire and cable industry. Gauder Group, Inc develops its support and parts services (including high technology bows) to the North American market from Greensboro, North Carolina.

Gauder Group, Inc – USA
Website: www.gaudergroup.com

Gem Gravure Co Inc
Booth 706

Marking the surface of fluoropolymers is a challenge. Typically a contact wheel has been used to place information such as manufacturer or specification on the surface. While effective, this technique limits variable information. During 2012, Gem chemists developed two ink jet inks for these materials.

BKG7761 Black and GNG7765 Green are designed for use on fluoropolymers in continuous manufacturing processes. Codes are applied prior to sintering ovens,

and heat exposure is required to complete adhesion to the jacket surface. Common industrial fluoropolymers used in industry include PTFE, FEP and ETFE.



The newly formulated inkjet inks show adhesion that is comparable to the traditional gravure inks. After processing, codes survive MIL-W-227598 adhesion testing. A sewing needle with a diameter of 0.025" is pulled back and forth over the code for 60 cycles.

The length of the stroke is 3/8". A small weight of 500g is attached to the top of the apparatus to hold the needle in place. 125 cycles should be performed; passing codes remain legible after this test. Results may vary with manufacturing and surface conditions, and customer testing is required to confirm performance.

Gem Gravure Co Inc – USA
Website: www.gemgravure.com

GMP Slovakia

Booth 558

GMP Slovakia produces take-apart reels, including the Easycoil Plus reel. This patented reel can also be used as a coil lifter: with lifting rings in "lifting" position, the barrel expands during the lifting operation and lifts the coil. With lifting rings in "free" position, the barrel collapses during the lifting operation and sets the coil free.



Easycoil Plus is completely machined on the parts in contact with the wire, and can be customized according to customers' requirements. It can be supplied with slots in the flange to fit cardboard barrels, or with changeable flanges to make coils of different widths. Easycoil Plus can be balanced, and to prevent wear problems due to the high rotation speed, hardened changeable bushings are recommended.

GMP Slovakia – Slovakia

Website: www.gmp-slovakia.com

H Folke Sandelin AB

Booth 740

H Folke Sandelin AB (HFSAB) from Motala, Sweden, will be a co-exhibitor with Niehoff Endex North America Inc.

(HFSAB) has played a leading role globally for over 50 years, supplying continuous lead extrusion equipment and know-how for trouble free lead sheathing of cables thus providing a perfect moisture barrier.

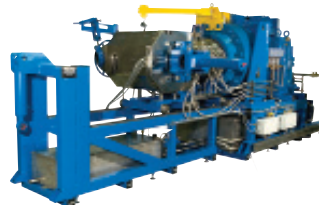
The latest design extruder is horizontal, floor-standing, easy to install and maintain, fully automatic, extremely reliable with its state-of-the-art control system, enabling continuous operation for weeks with little or no variation in temperatures and wall thickness/concentricity.

The lead wall thickness can be kept to a minimum with corresponding savings in lead. A range of die blocks are available to cover an extensive diameter range of 6-225mm (over lead), and a range of Melting Pots are available for 10, 18, 35 and 60 tonne capacities.

Additional equipment includes the cable repair and recovery system, CRRS, which has the possibility of:

Removing individual layers, such as the outer jacket, lead sheath or triple layer XLPE insulation, without causing any damage to the subsequent layer below. Thus enabling

the outer jacket, lead sheath or triple layer XLPE to be reapplied and the cable repaired. Even if the cable is just going to be scrapped, the metal price differences for insulated or un-insulated cables are very large and the equipment would have a very short pay-back period, if the metals are scrapped in their "bright" form.



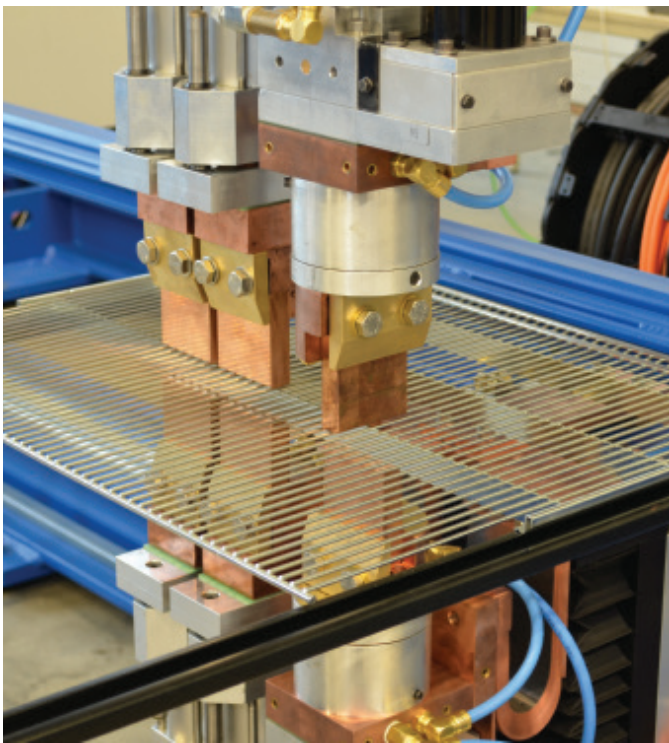
H Folke Sandelin AB – Sweden

Website: www.hfsab.com

Ideal Welding Systems

Booth 1731

Ideal Welding Systems is a supplier of Ideal and Clifford automated equipment to the sheet metal and wire industry. The company's product offering includes reinforcing and industrial mesh welders, CNC jig welders, butt welders, straightening and cutting machines, wire drawing machines and grating welders.



The company will be exhibiting the advanced Ideal CSR102 CNC jig welder. This automated positioning and welding system is suitable for resistance welding both sheet metal and wire components on the same machine. In line with Ideal's range of 'green' welding equipment, the CSR102 jig welder is equipped with efficient MFDC (medium frequency direct current) welding technology, along with the latest servo motors and drives from Siemens.

The CSR102 also offers the latest in available options and tools to become the most

versatile machine the company has built, incorporating horizontal and vertical welding, along with automatic adjustment of welding heights, and a pincer welding tool for welding in the vertical plane, facilitating the welding of 3D sheet metal and wire components.

A rotating weld head is also included, allowing for welding at any angle in the horizontal plane, suitable for the efficient welding of wire products such as fan guards. The machine on display will also have the largest welding envelope ever displayed by Ideal: 118"(w) x 80"(d) x 15"(h).

Ideal Welding Systems – USA
Website: www.idealweld.com

Inhol BV
Booth 402

Inhol's principal focus at Interwire will be the introduction of an additional range of specialty cross-linkable wire and cable compounds, suitable for various cross-link systems and irradiation. The new PTL-brand compounds will be based on one of the four major cross-link systems: silane-grafting/moisture cross-linkable, peroxide-based mold-curable, peroxide based CV-curable and E-beam radiation cross-linkable compounds.

Inhol/PTL's extended compound portfolio also includes thermoplastic compounds, abrasion testers and a new designed hot-set (hot-creep) test oven.

Inhol BV/PTL – Netherlands
Website: www.inhol.com

InnoVites BV
Booth 2131

InnoVites highly values interaction with the wire and cable industry, and after attending Interwire 2009 and 2011, the company will be present for a third time in 2013. The company will showcase its ERP solution for the cable industry: InnoVites for Cable, based on user-friendly Microsoft Dynamics AX technology.

Based on the long experience of its team, InnoVites, headquartered in The Netherlands, developed software that addresses the specific business issues in the industry, such as length and tolerance management, product data management and copper management.

Benefits of InnoVites for Cable include increased customer satisfaction, via reliable delivery dates with the fully cable length-based logistics management, and length information including length tolerance managed in sales, planning, purchase and production operations. The system can reduce business risk by managing the impact and risk of metal price volatility (Cu, Al, etc) in quotations, sales and purchase orders, and keeping price lists up to date with the material prices at the commodity exchanges (eg LME and Comex).

Faster response to customer enquiries is provided by the ability to search quickly through the hundreds or even thousands of available items, using the cable design attributes that the customer requires (eg cross section area, number of cores, design standard or armoring type). Length-based production planning and scheduling result in optimal production lengths and optimal loaded resources.

A personal demonstration during the fair can be arranged via the company's website.

InnoVites BV – The Netherlands
Website: www.innovites.com

Inosym Ltd
Booth 1320

Inosym has been supplying reels to the cable and wire industry for 12 years, and to over 48 countries. Specializing in steel and plastic reels that are manufactured to European and USA standards, Inosym can offer reels to meet all the varying needs of modern manufacturing plants.

The company's reels were developed to provide cable and wire manufacturers with a product that was realistically priced and of high quality. Several of the company's product ranges are detailed below.

- ABS plastic reels from 250 to 1,000mm for insulating, group twinners, stranding, bunching and jacketing
- MF (metal flange) pressed metal process reels in sizes from 100 to 1,250mm, made from high quality steel plate and tube. Applications include universal take-up and payoff reels, bunching, stranding, insulating and jacketing
- SM (semi machined) double-wall high-speed reels are available in sizes from 315 to 1,250mm and are made of high-quality steel plate and tube. Applications include drawing, bunching, stranding and insulating
- FM (fully machined) steel high-speed reels in sizes ranging from 100 to 1,000mm, manufactured from high-quality steel plate and tube. Applications include high-speed single-wire drawing, high-speed multi-wire

drawing, bunching and enamelled wire coating

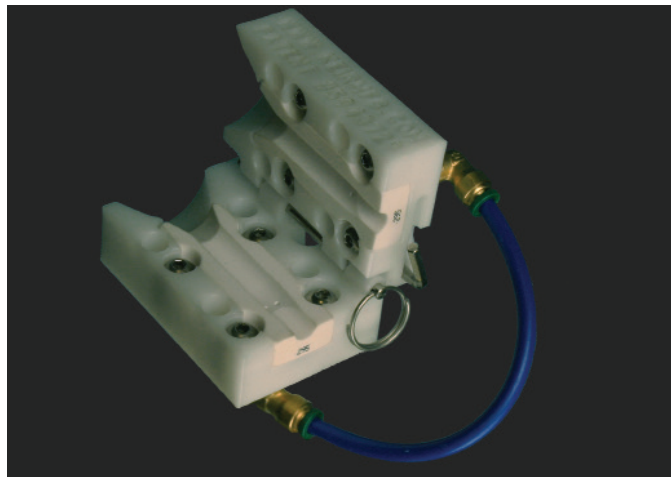
- SD (steel drum reels) are large steel process and shipping drums available in sizes ranging from 800 to 4,500mm. SD steel drum reel options include flat sided flanges, corrugated flange and break-down reels. Applications include drum twisting, stranding, insulating and jacketing

With more than 350,000ft² of production space, Inosym can provide customers with rapid delivery of both large and small reel orders.

Inosym Ltd – New Zealand
Website: www.inosym.com

Keir Manufacturing, Inc
Booth 703

Keir Manufacturing, Inc is a US-based manufacturer of high-purity 99.8% alumina ceramic guides, the Frontiersman™ line of



air wipes, and composite flyer bows, serving the global wire and cable industry. The company is dedicated to making products that enable manufacturing processes to run more efficiently and productively through the application of leading edge materials.

Its solutions are focused on continuous process improvement, energy savings and longer operating life.

Keir's patented SureShot and SplitShot air wipes provide an effective drying method that does not depend on high-volume air consumption. The efficient design yields effective drying using a very low volume of compressed air and is claimed to last longer than other brands due to the rugged ceramic insert lining the wire path, equating to over 25 percent reduction in compressed air usage and an operating life of years versus months.

The company'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, yielding increased operating life and less machine downtime. The more aerodynamic BackBone design functions at lower power consumption and higher TPM with improved wire quality and a further reduction in bow breakage. Up to 40 per cent less energy (amps) is used, along with a decrease in wire scrapped.

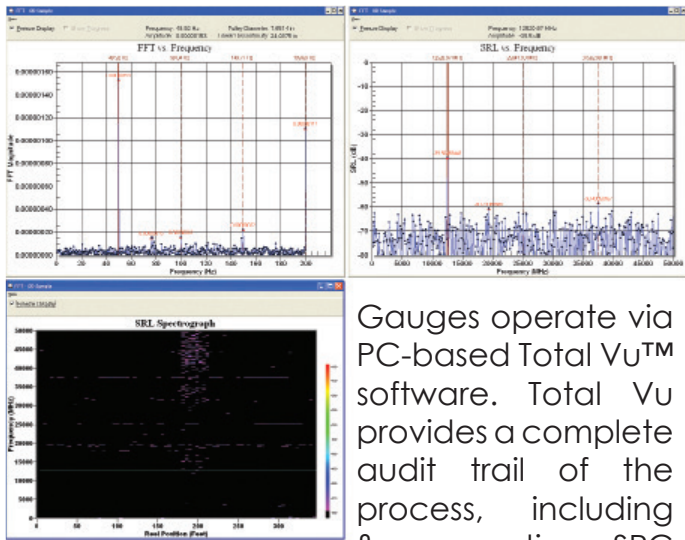
Keir Manufacturing, Inc – USA
Website: www.keirmfg.com

LaserLinc Inc
Booth 1850

LaserLinc's accurate and adaptable non-contact laser and ultrasonic systems measure OD, ID, wall, eccentricity and concentricity for the wire, cable and fiber industries.

High-speed three-axis laser gauging for ovality and flaw detection, plus features

such as FFT and SRL prediction, help reduce scrap, increase production efficiency, and improve quality. The UltraGauge+™ ultrasonic wall thickness measurement system uses hardened stainless steel fixtures designed to withstand harsh wire and cable manufacturing environments, and UltraLock™ Auto Setup provides automatic configuration.



Gauges operate via PC-based Total Vu™ software. Total Vu provides a complete audit trail of the process, including flaw reporting, SPC charts and Excel-based user-designed reports, along with real-time analysis with run and trend charts, graphical cross-section display and measurements in configurable, easy-to-read panels. Other features include in-process tolerance checking, feedback control and recipes.

Laser gauges measure diameters from 0.035 to 120mm (0.0014" to 4.7"), and feature compact models and the highest measurement rates available. With the UltraGauge+, wall thickness can be measured at up to eight positions, with up to 2,000 measurements per second.

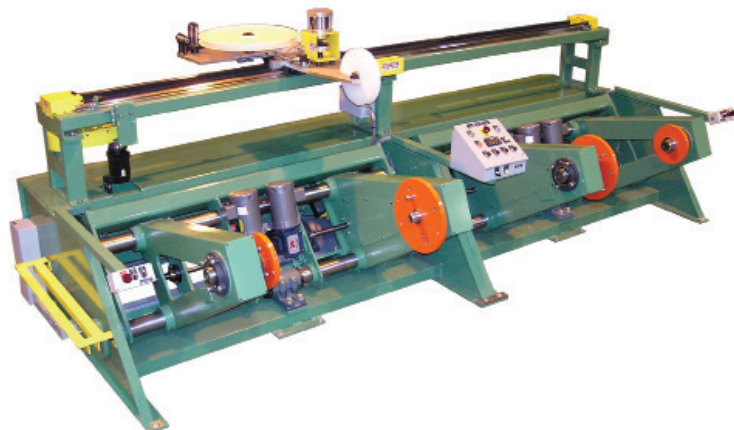
LaserLinc micrometers and the UltraGauge+ digital signal processor have a four-year parts and labour warranty. If a micrometer needs warranty repair, LaserLinc will overnight deliver a temporary replacement.

LaserLinc, Inc – USA
Website: www.laserlinc.com

Lloyd & Bouvier, Inc
Booth 1832

Lloyd & Bouvier now offers a 50" shaftless dual reel take-up, consisting of two 50" welded plate frames bolted together with common traverse mounted on dual linear bearings, with a continuous belt drive activated with a servo motor. A clamp and pulley system can be incorporated into the traverse system to direct and hold the wire during crossover.

The take-up accepts reel diameters from 24" to 50" and reel widths from 20" to 40". Reel lifting is accomplished through pneumatically loaded cylinders to lift reels up to 5,000lb. Gate arm positioning for various reel widths is achieved through dual AC gear motors with automatic centering via Acme threaded rod activation.



Power is provided by a 10 HP AC motor with in-line reducer to provide maximum torque. A NEMA panel houses the 10 HP AC Vector main drive and all related electrical components, and operator controls are mounted on gate arms for

easy access. Pintles and drive rotors are provided and customized to individual customer requirements. A 72" version is also available.

The shaftless dual reel design offers a safe and efficient alternative to the older shaft style dual reel take-ups, eliminating operator handling of heavy shafts, and removing the problem of damaged locking collars when loading and unloading reels.

Lloyd & Bouvier supplies new, rebuilt and used equipment to satisfy virtually all wire and cable equipment needs.

Lloyd & Bouvier, Inc – USA
Website: www.lloydbouvier.com

Magnetic Technologies
Booth 217

Magnetic Technologies Ltd has added electric hysteresis brakes to its product offering. Available in sizes up to 220lb per inch, these brakes complement the extensive offering of permanent magnet hysteresis, and eddy current brakes and clutches offered by the company.

Electric hysteresis brakes can be integrated into closed loop tension control systems. A working model of such a tension control system will be displayed at Interwire, where a variety of permanent magnet brakes for the wire industry will also be on show.

Magnetic Technologies – USA
Website: www.magnetictech.com

Maillefer
Booth 932

Maillefer is exhibiting at Interwire to share new developments and improvements with its partners and friends.



Maillefer has a broad portfolio of extrusion systems for energy cable, fiber optic and telecom cable and tube manufacturing systems. In Atlanta the focus will be on energy and fiber optic applications for higher productivity, more compact layouts, longer production runs, improved manufacturing quality and clean insulation material handling.

Maillefer has supplied fiber optic manufacturing equipment since the late 1970s, providing solutions for every stage of the fiber optic cable process. Tight buffering, secondary coating, SZ stranding and jacketing lines are available for producing FTtx cable with low fiber counts and short lengths, and technology such as the compression caterpillar with tension feedback keeps accurate control of excess fiber length.

Maillefer Extrusion – Switzerland
Website: www.mailleferextrusion.com

Mathiasen Machinery, Inc
Booth 333

Mathiasen Machinery Inc (MMI) buys and sells used wire and cable machinery internationally. 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, and serves the domestic and international ferrous and non-ferrous wire machinery markets.

The company's booth will display photos of a wide variety of second hand machinery. Customers are asked to bring their surplus machinery list and photos for evaluation.

Mathiasen Machinery, Inc – USA
Website: www.mathiasen-machinery.com

Medek & Schörner GmbH
Booth 1050

Medek & Schörner will be presenting the following state-of-the-art cable marking machines at Interwire 2013:

Cable marking machines: high quality gravure printers (LAN cables, control cables) for speeds up to 1,200m/min; water misting unit for the application of fine water dust for pre-cooling of hot wire immediately after the extruder; embossing meter markers/hot foil sequential meter markers for high accuracy of length measurement (power cables, telecommunication cables, optical fiber cables); high performance

ring markers for marking telephone wires, switchboard wires, automotive cables and LAN cables; video system for monitoring the print quality of fast-running cable printing machines, eg allowing real-time inspection for bad quality and/or missing prints; and laser marking system for cables.

Optical fiber coating systems: top speed optical fiber processing systems; optical fiber color coding up to 3,000m/min; ring marking of optical fibers; tight buffering up to 1,300m/min; fiber ribbon production with excellent ribbon planarity, for speeds up to 1,000m/min; CFU production of compact fiber units; copper wire insulation with UV varnishes (enamelled wire); and manufacture of dimension-sensitive precision micro flexible flat cables (FFC) using UV resins.

Medek & Schörner covers virtually the entire spectrum of machines for marking cables and coding optical fibers, in particular for power, telecom and data cables.

Medek & Schörner GmbH – Austria
Website: www.medek.at

Nextrom Oy
Booth 1050

Nextrom is a supplier of optical fiber glass preform manufacturing equipment. The company produces fiber draw towers and associated machinery for the global fiber market using MCVD, OVD and VAD technologies. As well as providing optical fiber equipment, Nextrom is a supplier of fiber optic cable production lines.

Rosendahl is a global supplier of high-tech wire and cable manufacturing solutions, offering products and turnkey solutions in

the fields of extrusion, corrugation, fiber optic cable and SZ stranding. Out of these competences, Rosendahl developed the product segments power cable, automotive wire, LAN cable, coaxial cable and fiber optic cables. Rosendahl's most recent completion of its product portfolio is the Crosshead Series.



At Interwire 2013 Nextrom and Rosendahl will present the latest advancements and technology highlights, including recent developments for the production of fiber optic cables, energy, automotive and communication.

On the American market Nextrom and Rosendahl work closely together with their agents, Finoptics Inc for Nextrom products, and Camarena, Inc US and JJ Lowe Associates, Inc for Rosendahl products.

The companies' partners have been involved in the cable and wire business for many years and therefore have long-term experience in this area.

Nextrom Oy – Finland
Website: www.nextrom.com

Niehoff
Booth 740

Niehoff Gruppe and its subsidiary Niehoff Endex (NENA) will present equipment including an MMH 121/RM 201.S multiwire

drawing line, a BMV 124 rotary braiding machine, and a D 1001 double twist bunching machine.

The MMH 121 multiwire drawing machine is designed to simultaneously draw 16 wires with a final diameter of up to 0.2mm (32 AWG), which can be processed to intermediate multiwire bundles. It is possible to directly fill one spool with seven wires to be stranded into a 19-wire construction. Spool handling is simplified, and the lower



number of payoff stations can reduce capital investment. Customer-specific MMH machines adapted to each application and each type of non-ferrous metal can be built.

The 24-carrier lever arm rotary braiding machine BMV 124, a heavier version of the BMV 24 model, has a central passage of 55mm and can carry spools with a weight of up to 5.5kg. BMV braiders can work for a long time unattended and without operator intervention. The machines are designed to process round or flat wire of bare or coated copper, aluminum and stainless steel with

a single-wire diameter ranging from 0.05 to 0.3mm (40-28 AWG) as well as artificial yarn and fibers. With an integrated central taping device, the braiding and subsequent taping processes are completed in one step.

The D 1001 type single-bow double twist bunching machine is designed for the manufacture of strands of up to 50mm² (1/0) cross section for copper and up to 60mm² (3/0) cross section for aluminum conductors with a lay length of up to 300mm (11.8") and a maximum rotational speed of 3,200 twists/min. Due to their one-bow design, the D series machines' energy consumption and noise emission are reduced when compared to conventional bunching machines.

Niehoff's 'After Sales Original +' service provides expert know-how, a remote maintenance service, modernization and upgrading measures, machine operator and maintenance training courses, and fast and reliable supply of wear and spare parts. Specially developed machine components can also be obtained.

Maschinenfabrik Niehoff GmbH & Co KG – Germany
Website: www.niehoff.de

Niehoff Endex North America Inc – USA
Website: www.niehoff-usa.com

Pan Chemicals SpA
Booth 1911

Pan Chemicals is a manufacturer and supplier of high-tech drawing lubricants and coating to the wire industry. The company's production program includes:

- Dry drawing lubricants (Panlube S series): a full range of calcium, sodium and combined products for low and high carbon steel, non-ferrous and stainless steel
- Wet drawing lubricants (Panlube L series): a complete range of oils, greases and pastes for wet drawing of low and high carbon, welding wire, stainless steel and non-ferrous wire
- Lubricant carriers (Pancover series): phosphates and non-reactive coatings
- Flux for galvanizing (Panflux series): developed to improve the efficiency of the galvanizing process by a more uniform control of the reaction between the two metals, reducing operation costs and improving the quality of the zinc coating
- Auxiliary products (Panchem series): degreasing agents, pickling inhibitors, protective products, activated charcoal and wiping pads

Pan Chemicals has a strong emphasis on technical collaboration with its customers, and is focused on the research and development of new products and solutions for specific applications. Particular attention is dedicated to the development of ecological products according to the new international regulations (borax-free lubricants and coatings).

In addition to chemical and auxiliary products, the engineering department can offer different solutions for mechanical descaling, coating and drying units, rotating die holders and die reconditioning equipment.

Pan Chemicals offers its highest quality drawing lubricants and coatings, state-of-the-art drawing processes and solutions, long experience and specialized technical service.

Pan Chemicals SpA – Italy
Website: www.panchemical.com

Pave Automation Ltd
Booth 1612

Pave Automation reports that it has enjoyed success with its new range of CNC bending equipment since the launch around 18 months ago. The driving force behind the family-owned business, brothers Antonio Perna and Silvio Perna, are dedicated to the innovation and development of these new machines.

The focus has been to supply bending machines to the marketplace that are fast, small and economical. The experience



that the company has gathered over the past 30 years of manufacturing over 1,000 machines, coupled with the latest software and hardware technologies, has created a successful combination.

Pave will be exhibiting its machines at this year's international wire shows, and invites new and old customers to visit its booths with products that they wish to be formed; the company will then program these products to provide accurate on-site cycle times for their manufacture.

The products to be covered will range from 20mm to 3m long, in diameter 3 to 10mm wire.

Pave Automation Ltd – UK
Website: www.pave-wire.com

Pentre Group
Booth 2149

The Pentre Group, celebrating 25 years in the wire and cable industry, will be exhibiting at Interwire with JJ Lowe Associates, the group's exclusive sales agent for North America Canada, and Mexico.

The Pentre Group designs, manufactures and supplies a comprehensive range of high-speed steel and plastic ABS process reels, steel shipping reels, steel process drums, steel and timber shipping drums, offshore shipping drums, plywood reels, cardboard reels, and wholly-molded plastic spools.



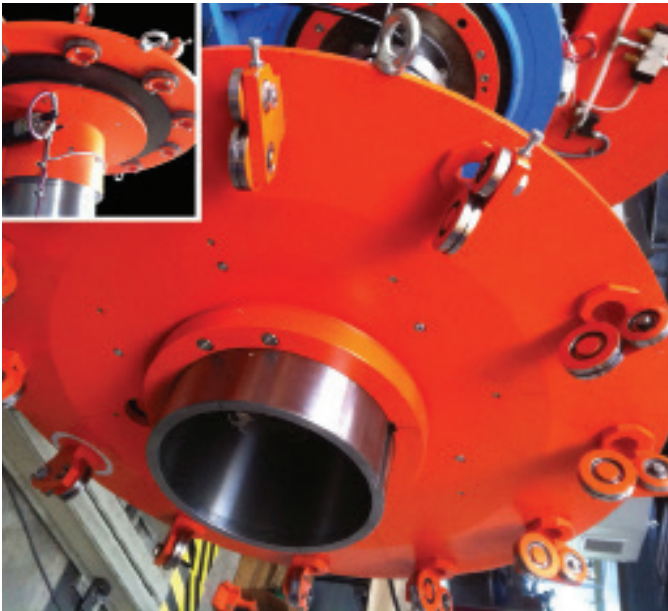
Pentre Group – UK
Website: www.pentregroup.com

Phifer
Booth 753

Phifer Incorporated, a manufacturer of aluminum round wire, with more than 60

years of experience, will display its range of American-made drawn wire products. Phifer has diverse capabilities, producing custom wire from numerous alloys in diameters from 0.11 to 11.1mm for a wide variety of applications.

The company's 0.127mm, 0.16mm, 0.254mm and 0.32mm aluminum wire (0.005", 0.0063", 0.01" and 0.0126") is used all over the world as coaxial cable braid shielding, shipboard cable armoring and hose braiding. Other applications include weaving wire, industrial knitting, tea bag staples, semiconductor bonding, medical devices, stranded power cables and lightning protection cables.



Newer products include copper clad aluminum, low carbon steel and bronze wire 0.127 to 0.5mm (0.005" to 0.02"). Available packages for fine diameter wires include numerous returnable and disposable spools 0.34-14kg (0.75-30lb).

For wire forms, food packaging clips, automotive moulding reinforcement, vacuum metallizing and more, Phifer offers aluminum wire in larger diameters 0.81 to 11.1mm (0.032" to 0.4375"). Innovative machinery has expanded and

improved Phifer's selection, especially for manufacturers of rivets, staples and other fasteners. Chemical processing and cleaning is offered for improved appearance and enhanced performance.

Phifer also offers new precision-winding capabilities for aluminum thermal spray and metallizing applications. Packages include coils and stem carriers from 14 to 680kg, fiberboard drums, and more than 40 spools and reels.

The ISO registered company employs a large international sales staff fluent in many languages, and exports to more than 100 countries.

Phifer Inc – USA
Website: www.phifer.com

Pourtier of America
Booth 1932

Pourtier of America is the new name chosen by the Gauder Group, Inc to promote the sales of its Pourtier product range.

The line of equipment includes Pourtier's rigid stranders and drum twisters for producing high quality Milliken conductor for high voltage and extra-high voltage power cable (AC) and conductors for DC cables (round compacted and trapezoidal wires), as well as large equipment required for the production of submarine and umbilical cables.

Pourtier of America – USA
Website: www.gaudergroup.com

PWM Ltd
Booth 1066

British manufacturer PWM will be exhibiting its comprehensive range of cold pressure welders, including its best-selling EP500 rod welder, at Interwire 2013. The PWM range will be presented at booth 11666 by Joe Snee Associates, exclusive distributor of PWM cold welding equipment, spares and dies in the USA and Canada.



PWM's powerful electro-pneumatic EP500 cold welder provides a cost-effective method of welding large non-ferrous rod sections. Energy efficient, clean and easy to operate, the EP500 is designed for wire and strip 5 to 12.5mm (0.197" to 0.492") copper, and 5 to 15mm (0.197" to 0.590") aluminum.

The smaller, manually operated M101 cold welder, for copper wire and strip 1 to 3.6mm (0.04" to 0.141") and aluminum 1 to 5mm (0.04" to 0.197"), can be used on a workbench or supplied with a trolley, enabling it to be wheeled quickly to the work area. Durable and reliable, the heavy duty M101 is simple to maintain due to the low number of component parts.

For joining fine wire in confined spaces, PWM's M10, M25 and M30 hand-held

machines are suitable for wire and strip 0.1 to 1.8mm (0.0039" to 0.071"). The BM10 and BM30 models, for use on a workbench or trolley, are suitable for similar wire sizes.

PWM machines and dies, standard or custom made to suit round or profile wire and rod, are designed and precision engineered in the company's own UK workshops, ensuring total quality control and accountability. All PWM cold welders provide a fast, cost-effective method of welding non-ferrous materials, using the multiple upset process to create a strong permanent weld stronger than the parent material.

Video demonstrations of PWM's cold welders can be viewed on the company's website.

PWM Ltd – UK
Website: www.pwmltd.co.uk

Qunye
Booth TBC



Qunye, a leading reel manufacturer in China, has all types of metal and plastic reels for wire and cable.

The company's reels are suitable for use in many areas: high voltage, middle voltage and low voltage XLPE power cables, optical fiber cables, telecommunication cables, steel wires, steel rope, bead wires and cutting wires, as well as in the textile industry.

Qunye – China

Website: www.qunye.com.cn

Rautomead Ltd

Booth 234

Rautomead, a specialist in continuous casting technology, processes and machinery, will be exhibiting the latest advances in copper magnesium alloy wire rod production technology, for automotive wiring harness and high speed rail contact wire applications.



DHP copper tube shell 'Castube' production technology will also be on show, which features in the new Compactube process being promoted by SMS Meer GmbH for the small scale manufacture of air conditioning and plumbing tubes. Rautomead's CuOF

wire rod production technology for fine wire, enamelled wire and shaped wire manufacture (by rotary extrusion) will also be available.

Having recently launched its new Advancing Metals Technology division, Rautomead now offers direct access to an extensive network of partnerships at specialist universities, research establishments, key institutions and industry corporations, to develop imaginative, innovative and economic processing technologies for new and different alloys and applications.

Rautomead Ltd – UK

Website: www.rautomead.com

Rockford Manufacturing Group

Booth 2156

Rockford Manufacturing Group (RMG) Fastener Engineers and Lewis Machine's integrated in-line wire processing solutions are the epitome of lean manufacturing. RMG's straighten and cut machines have introduced many revolutionary concepts including VF AC drives, 3 die arbors and the patented "clutchless" cutting technology.

On the booth will be the Lewis 1SHVF straighten and cut machine with the 4VPS16 overhead wire payoff. The 1SHVF has been redesigned to include many updated features including: variable frequency drive technology, a light weight release and length control system with micro fine adjustment specifically for small diameter material and completely independent control of feed speed – arbor speed – cutter speed, to maximize productivity.

The in-line wire processing equipment is being used by many manufacturing

processes, including fastener production, nail making, wire bending, concrete products, steel bar processing, welded wire products, screw machine parts and wire straightening and cutting.

RMG provides integrated systems for the processing of hot-rolled rod into descaled and drawn wire that is regularly used in a variety of production machines and processes to reduce material cost.

Rockford Manufacturing Group – USA
Website: www.rmgfelm.com

Rosendahl Maschinen GmbH
Booth 1050

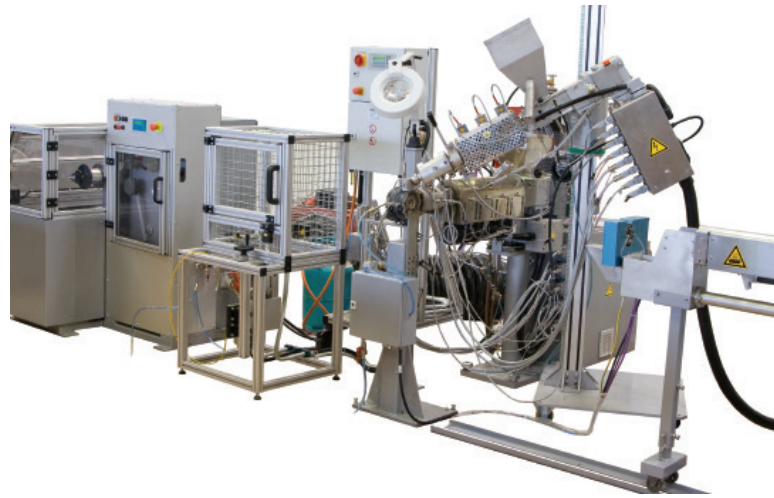
Rosendahl is a global supplier of high-tech wire and cable manufacturing solutions, offering products and turnkey solutions in the fields of extrusion, corrugation, fiber optic cable and SZ stranding. Out of these competences Rosendahl developed the product segments power cable, automotive wire, LAN cable, coaxial cable and fiber optic cables. Rosendahl's most recent completion of its product portfolio is the Crosshead Series.

Nextrom is a supplier of optical fiber glass preform manufacturing equipment. Nextrom produces fiber draw towers and associated machinery for the global fiber market using MCVD, OVD and VAD technologies. As well as providing optical fiber equipment, Nextrom is a supplier of fiber optic cable production lines.

At Interwire 2013 Rosendahl and Nextrom will present the latest advancements and technology highlights, including recent developments for the production of energy,

automotive, communication and fiber optic cables.

On the American market Rosendahl and Nextrom work closely together with their agents, Camarena, Inc US and JJ Lowe Associates, Inc for Rosendahl products, and Finoptics Inc for Nextrom products.



The companies' partners have been involved in the cable and wire business for many years and therefore have long-term experience in this area.

Rosendahl Maschinen GmbH – Austria
Website: www.rosendahlaustria.com

S&E Specialty Polymers LLC
Booth 652

S&E Specialty Polymers LLC will display compounding solutions for the wire and cable industry, including a new line of concentrates.

S&E's compound brands include: TufFlex™ flexible TPE compounds for wide temperature ranges; TufTech™ vinyl-based compounds; TufGuard™

flame-retardant polyolefin compounds, including TPE/CPE compounds; TufShield™ plenum compounds; and TufPrene™ SBS and SEBS compounds.

In addition, the company has recently expanded its custom compounding facilities. S&E can now produce active masterbatches with up to 85 percent active ingredients.



S&E is producing approximately 15 different olefin-based flame retardant, ultraviolet, blown agent and other concentrates. By expanding its product line from custom compounds to include concentrates, S&E believes it can assist injection molding and extrusion customers to reduce their purchasing costs, reduce numbers of SKUs, and improve production flexibility.

S&E Specialty Polymers – USA
Website: www.sespoly.com

SETIC of America
Booth 1932

As part of its rebranding activity, the Gauder Group, Inc now markets its SETIC product line as SETIC of America.

This range of equipment offers large and small double twist bunchers for PC and automotive industry, as well as a complete line of machines for the production of LAN and special cable with enhanced performances in one step or two steps according to product mix.

SETIC of America – USA
Website: www.gaudergroup.com

T&T Marketing, Inc
Booth 305

At Interwire this year, T&T Marketing, Inc will be celebrating its 25th anniversary. T&T is a single source supplier to the wire and cable industry, distributing everything from bare copper to shielding, filling, insulating and jacketing products. The company was founded in 1988 and has grown over the years into an international distributor. T&T will also be introducing new product offerings that were recently added to its portfolio, and will be highlighting Vistamaxx, Irogran A 95 P 5003 DP and PP 4874.

Vistamaxx™ is used as a “blend partner” for polypropylene based compounds. It helps achieve enhanced flexibility, clarity, impact strength and adhesion while reducing or eliminating stress whitening. It is manufactured by ExxonMobil Chemical.

Irogran® A 95 P 5003 DP, manufactured by Huntsman TPU, is a non-halogen, flame

retardant TPU that consistently passes the VW-1 flame test. The compound has an LOI of 34 percent for VW-1 applications, a Shore A Hardness of 94, and meets UL1581 requirements.

PP 4874 is a polypropylene compound used for the solid insulation of data cables with superior hardness as desired in CAT 6A and 7A applications. Manufactured by Borealis, it exhibits high speed extrusion and provides process stability with regard to diameter and geometry as well as good conductor adhesion.

T&T Marketing's booth will be staffed with knowledgeable salespeople who will answer any questions visitors may have regarding the aforementioned products. Data sheets are available upon request, and samples are available for order. The T&T booth will also have literature to distribute, showcasing the company's diverse portfolio of wire and cable offerings, which include but are not limited to PVC, polyethylene, nylon and Santoprene™.

T&T Marketing, Inc – USA
Website: www.ttmarketinginc.com

Tensor Machinery Ltd
Booth 218

Tensor Machinery is a designer and builder of cabling equipment for the wire and cable industry. The company provides a wide variety of solutions to manufacture fiber optic or copper cable, including individual pieces of equipment to complete cable manufacturing lines ready to produce cable.

Products include UV coloring lines, loose tube manufacturing, SZ stranding lines, armoring line, yarn serving, payoffs, take-ups and jacketing lines for indoor and outdoor cable products. Tensor equipment is engineered to withstand the daily demand placed on it by production, and the company uses the latest in mechanical, electrical and electronic technology.

Tensor Machinery Ltd – Canada
Website: www.tensorfiber.com

Troester GmbH & Co KG
Booth 340

Troester, a supplier of machines and lines for the cable manufacturing industry, will present a variety of information and new developments in the field of CCV lines and VCV lines for XLPE and rubber cables, one step silane lines for LV and MV cable applications, as well as high speed insulation lines and sheathing lines.



Technical solutions for CV tube components, heavy duty cable jacketing and submarine cable equipment will be introduced.

Troester also represents its subsidiary, X-Compound, which supplies compounding plants for cable compounds such as PVC, HFFR, XLPE, semi-conductive material and special applications.

Troester GmbH & Co KG – Germany
Website: www.troester.de

Tulsa Power
Booth 1840

Tulsa Power has released a new line of high performance coilers. The automatic cut and transfer (ACT) series of coilers incorporates a dual spindle turret winder, designed for winding stranded, flexible wire and cable from 18 AWG to 4/0 inline in an extrusion process, or coupled with other ancillary devices on a rewind application. The addition of a payoff, dancer/accumulator, gauging and spark test allow for a complete rewind line, or can be used without the payoff for extrusion applications.

The systems can coil or spool as a standard (coiling heads are an option). The fully automatic system has a cut and transfer feature that, upon receiving a signal from the total length counter, quickly clamps,

cuts and transfers the product from full reel to empty reel without process interruptions. An ultrasonic dancer locates the position of the product and assures a smooth functioning of tension controlled winding for even the most sensitive products.

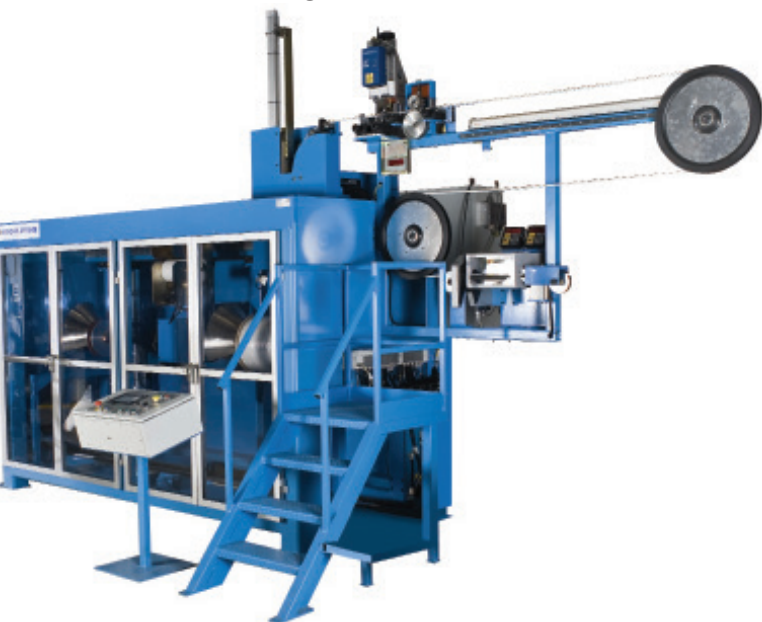
The ACT series coilers can reduce labor by utilizing one operator for several extrusion lines. Special control features and a touch screen interface allow convenient operator controls with near perfect switchover reliability at high speeds. The automatic design avoids product from accumulating on the floor, as required on manual switch-over machines, saving the operator time, minimizing scrap rates, improving wind appearance and product quality while improving safety.

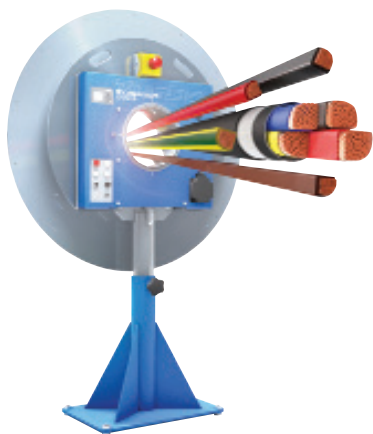
Tulsa Power – USA
Website: www.tulsapower.com

Windak Inc
Booth 1940

Windak specialises in automatic packaging solutions for the wire and cable industry, and has offices in Sweden, USA, Australia and Estonia.

The company will introduce its new automatic reeler AR18-DB line at Interwire. The Auto Reeler AR18-DB is a fully automatic reeler developed for automatic packaging of cable and wire products on spools or reels between 216 and 460mm (8.5" to 18") in overall diameter. It can be run both in-line (direct connection with extruder) and off-line, and loads and unloads the empty reels automatically. The line includes stretch wrapping of the spool to contain the cut end, and the output of the machine is two reels per minute.





At Interwire Windak will combine the AR18-DB reeler with the integrated palletizer GP5, payoff and accumulator, to make a complete automatic spooling line with a short investment payback. The

company will also show the winding process and palletizing of the finished spools.

Windak will also present the latest information about its full range of products, including payoffs, take-ups, rewind lines, coiling and spooling solutions, accumulators and palletisers.

Windak – USA
Website: www.windakusa.com

Zumbach Electronic AG
Booth 1540

Zumbach will showcase its broad range of dimensional measurement and inspection systems for rod and bar mills, and wire drawing, wire insulating and cable jacketing processes.

Existing technology to be featured includes, Odac® laser scanning diameter gages; DVO 2 oscillating device for Odac® gauges; Odex® non-contact diameter and eccentricity system; Capac® for in-line dielectric testing and FFT/SRL analysis; Wallmaster in-line ultrasonic wall thickness and concentricity systems; Rayex® for diameter, wall thickness and concentricity for CV power cable applications; WST

and AUTAC preheating and conductor temperature sensors; and Sparkmaster spark tester solutions.

New developments to be introduced include the new modular USYS IPC line of processors and controllers; Steelmaster Rotation (SMR) for in-line hot and cold rod and bar mills; Simac® 63 for in-line surface faults and defects; KW 13TRIO for lump and neckdown detection for fine dimension applications; and Profilemaster® PMM 30 for in-line profile measurement of non-round products for fine dimensions.

Zumbach Electronic AG – Switzerland
Website: www.zumbach.com

Plasmait on display
Booth 1512

Plasmait is a supplier of heat and surface



treatment solutions based on plasma technology for continuous and batch applications to the ferrous and non-ferrous

metals industry. Its machines are designed for sectors with demanding material needs such as medical, jewelry, electronics, solar, welding, automotive, aerospace, oil and gas.

Plasmait's range of machines, which will be on display at Interwire, includes:

- PlasmaANNEALER is designed for stainless steel and nickel alloy wire, rod, tube, and rope. Main advantages: superior surface quality, surface passivation and small and even grain size of end product. Operational benefits: high annealing speed, low energy, gas and maintenance costs.

- PlasmaPREPLATE is designed for heat treatment, surface cleaning, deoxidation and surface activation of wires, tubes or strip prior to plating.

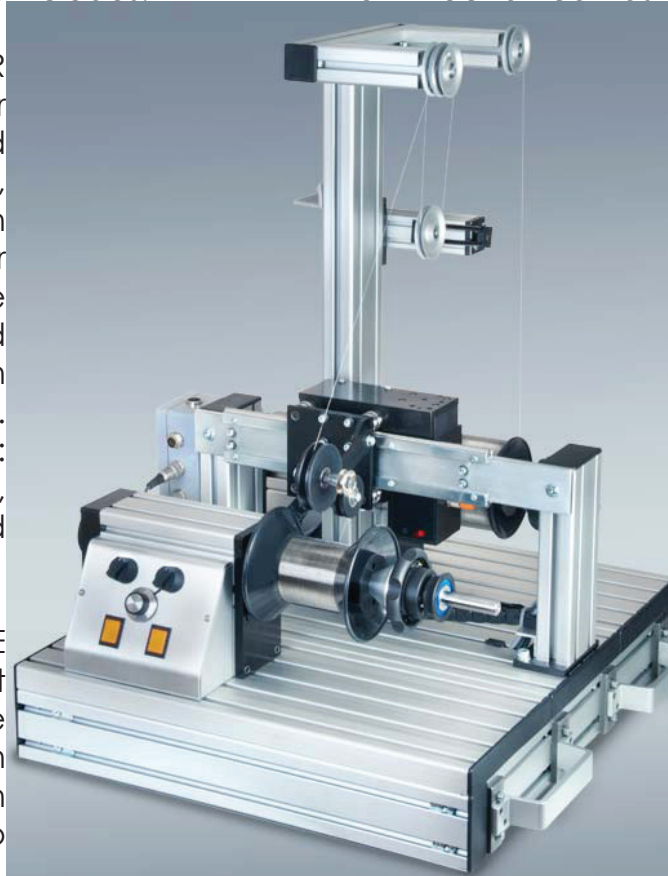
- PlasmaCLEANER is designed for surface cleaning/degreasing or deoxidation and preheating of ferrous and non-ferrous wires, tubes or strip. It can be used for cladding, taping or extrusion applications.

- PV Ribbon Line for annealing and chemical free tinning of PV ribbon.

Plasmait – Austria
Website: www.plasmait.com

Launch of new fine wire spooler
Booth 717

At Interwire, Cemanco will announce a new KMK fine wire spooler and re-winder for material down to 0.001" diameter. The design is modular and allows the integration of mechanical as well as a dual laser



controlled traverses for high quality windings. All control functions are accessed and displayed through a single control wheel and start and stop buttons. Displayed functions include spool rpms, spool revolutions, length of material, rpm up and down ramp and basic settings like maximum rpm, sense of rotation and dancer settings.

Simplicity of operation and precise tension control for very fine wire were realized with this new machine design.

Cemanco – USA
Website: www.cemanco.com

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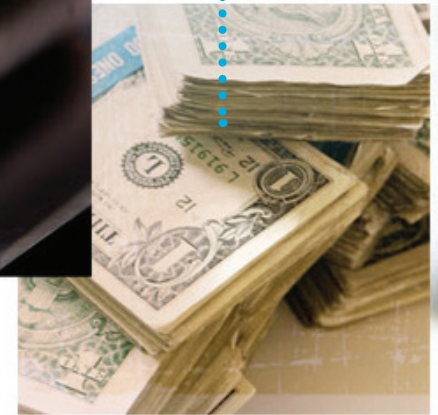
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Fiber optic safety DVD

The Light Brigade, AFL's education and training division, has incorporated the content of the ANSI Z 136.2 standard, along with the international IEC 60825-2 optical fiber communications safety standard, to its Fiber Optic Safety DVD. The new ANSI standard provides guidance for the safe use, maintenance, service and installation of fiber optic and free space optical communications systems, which use laser diodes that operate between standard wavelengths of 850–1,650 nm.

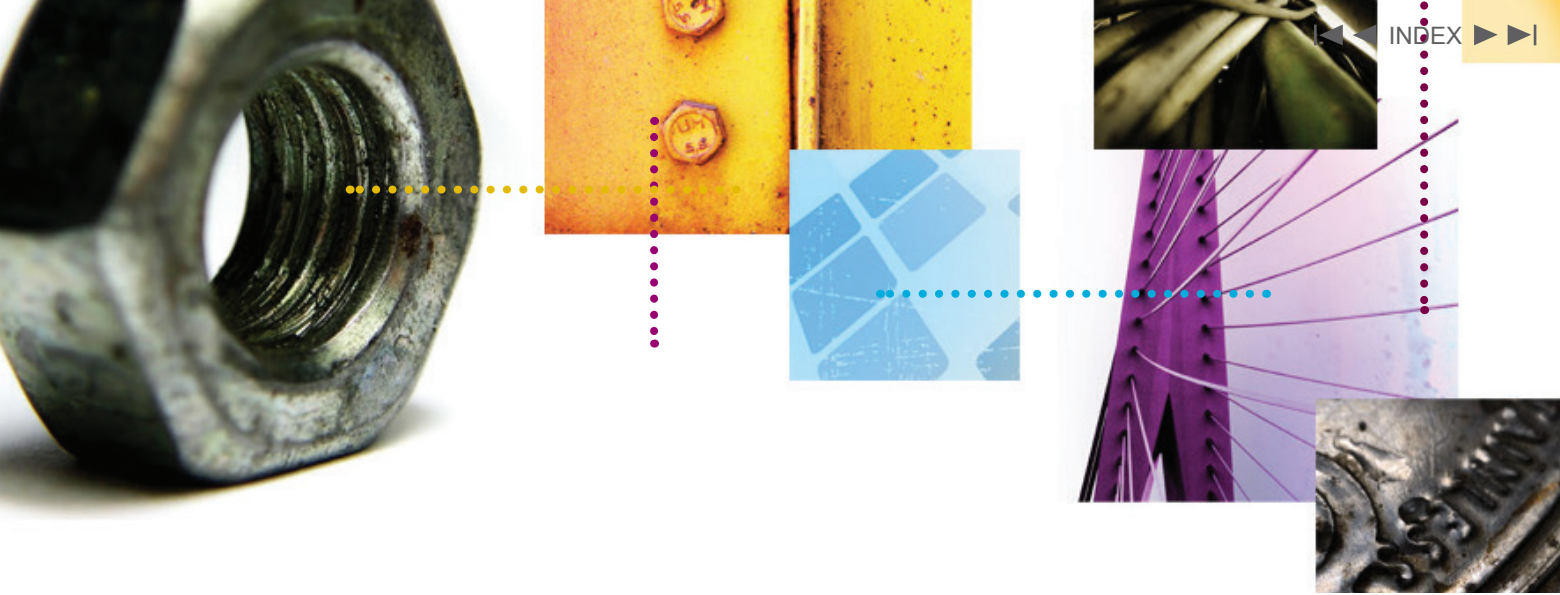
The standard is published by the Laser Institute of America (LIA).

Bonus materials provided on the DVD include a student quiz with matching instructor version, written in Microsoft® Word format, that allows customization for specific safety needs. BICSI® recognizes Fiber Optic Safety DVD training for the following BICSI continuing education credits (CECs): one RCDD; one RITP; one Installer 2, one Technician and one Certified Trainer.

Electro-optical collaboration

Lightwave Logic and EM Photonics are to work together to develop an advanced telecom modulator. The two companies will collaborate on the project, with guidance from Dr Fred Leonberger, senior technology advisor to Lightwave Logic. EM Photonics is a Delaware-based photonic system design, engineering and device company founded by Dr Dennis Prather of the University of Delaware.

Lightwave Logic is developing a non-linear optical polymer materials platform for applications in high speed fiber optic data communications and optical computing.



New software for optimal splices

Furukawa Electric Fitel® SmartFuse™ fusion splicing software from OFS has been enhanced to include automated optimal facial-fit alignment and a new effective live fiber splicing method.

The Fitel SmartFuse facial-fit alignment software provides the optimal fit between two end faces of fibers prior to splicing, enabling increased production throughput while helping to minimize labor costs. With larger diameter fibers, end-face cleaving is often imperfect. The SmartFuse software measures the end face angle, rotates the fibers, determines the optimal fit between the two faces, and then splices them; all in a fully automated mode. This new feature enables the splicing of cleave angles that would have previously been rejected or have required extensive operator time to align manually.

Wire online

Nassau National Cable has launched a new website with companion mobile apps for iOS and Android devices that enable full access to the company's product catalog.

The company's aim is to provide all customers, from experienced contractors and electricians to do-it-yourselfers, with the information and products they need. A problem often encountered by consumers buying specialist products is uncertainty as to what product is required for a specific job.

To solve this problem, Nassau Electrical offers the option to chat live with a representative online to answer any questions the customer may have. In addition, customers will be able to buy the lengths they require for their job at set prices.

Kubota gets the measure of cable



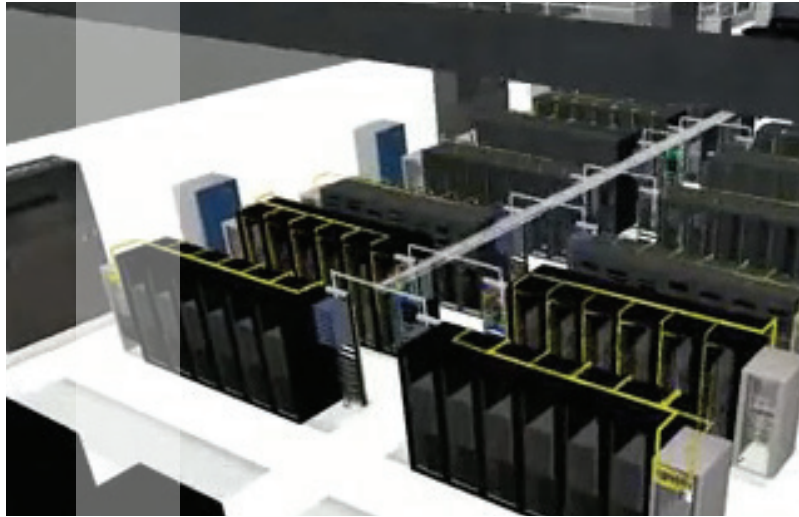
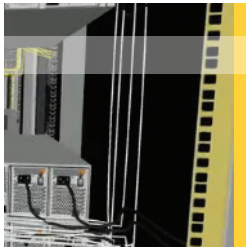
Cerrowire's SLiPWire® THHN cable has been used in the construction of a new Kubota Industrial Equipment (KIE) plant in Jefferson, Georgia.

The cable selection was a joint decision by Kubota Industrial Equipment, contractor Cedartown Electric, the electrical distributor Gexpro, and distributor Electrical Products Inc (EPI).

The cable's true sequential footage indicates accurate footage length, and so controls costs by avoiding the need to carry excess cable inventory. True sequential footage uses a footage mark to document remaining wire, beginning with zero at the bottom of the reel and

ending with the finished length at the top. The accurate footage mark allows for quick identification of the re-order point, guaranteeing the full purchased wire length and reducing random, end-of-reel lengths.

SLiPWire is a thermoplastic high heat-resistant nylon-coated (THHN) cable, jacketed with a self-lubricating polymer to provide a low co-efficient of friction. SLiPWire is said to reduce the time, labor and cost of installation by eliminating the materials and labor needed for lubricating the wire. Using pre-lubricated wire also significantly reduces the possibility of injury from slipping on spilled lubricant.



ITRACS MAKES TRACKS TO COMMSCOPE

CommScope has acquired substantially all of the assets of iTRACS Corporation, known for open, enterprise-class data center infrastructure management (DCIM). iTRACS solutions are deployed in some of the world's most complex data centers and infrastructure environments.

“Together with iTRACS, we can provide business enterprises around the world with the broadest and best possible solutions for designing, managing, monitoring and planning data center infrastructure,” said Kevin St Cyr, senior vice president of enterprise solutions, CommScope.

“iTRACS Converged Physical Infrastructure Management™ (CPIM®) will build upon CommScope’s imVision® solution to position us with a platform that we believe will bring to our customers best-in-class network and power infrastructure documentation and asset management.

“This open architecture platform, coupled with a 3D visual modeling that is second to none in the DCIM market segment, provides a complete visual representation of the entire physical ecosystem, including energy consumption, thermal conditions, network connectivity, power connectivity, and can incorporate additional statistics like server performance and storage capacity.”



PRODUCTS - MACHINES

& TECHNOLOGY

OPM technology for high yield copper wire bonding

FlipChip International (FCI) has launched Elite™ OPM technology, providing a wider process window for copper wire bonding to support the move away from using expensive gold wire. OPM technology will be available from FlipChip Millennium Shanghai facility (FCMS), a subsidiary of FCI, and will provide landing pad protection of the underlying semiconductor device for a broad variety of semiconductor devices and technology nodes.

Ted Tessier, CTO of FCI, said: "This...patented solution originated in FCI's corporate R and D center in Phoenix, Arizona and was further deployed into volume manufacturing at our Shanghai FCMS wafer bumping facility.

"As a result of the close collaboration with our subsidiary Millennium Microtech Shanghai (MMS) and its wire bonded package customers, Elite OPM is being introduced to address ongoing cost reduction needs and critical reliability concerns, such as pad cratering and pad peeling. The rugged structural characteristics of Elite OPM enhanced pads ensure crater-free copper wire bonding with high yields in mass production.

"We are also currently evaluating IC devices designed with circuit-under-pads, which is a common miniaturization design structure. Based on our initial results, the

OPM protected pads have provided robust protection of the circuits underneath, and the electronic performance of the device. We believe that IC designers will be able to utilize the benefits of Elite OPM to enable the design of smaller devices without package-related concerns."

Few-mode fibers series

OFS, designer, manufacturer and supplier of fiber optic network products, has launched a series of few-mode fibers designed for space division multiplexing.

"Few-mode fibers can be used for space division multiplexing where information is transmitted simultaneously on several modes, thereby further increasing the transmission capacity of an optical fiber," says Robert Lingle Jr, director of fiber design and systems research at OFS. "Spatial multiplexing on few-mode fibers is one of the very hot research topics at this year's Optical Fiber Communication Conference," he added.

Three versions of the few-mode fibers are available: a two-mode fiber with graded-index core, which has a low differential group delay; a step-index two-mode fiber; and a step-index four-mode fiber.

"The OFS few-mode fibers have been developed as a part of OFS participation

in the European Union-supported collaborative research and development project ModeGap," said Bera Palsdottir, manager of Incubation Center OFS Denmark.

"The fibers have been tested by our business partners at ModeGap, already resulting in several publications, with the demonstration of transmission of 57.6 terabit per second using 6 spatial modes being the most impressive result thus far."

Long-distance trial

The optical transport equipment vendor ECI Telecom has announced that its Apollo OMLT packet-optical transport platform has successfully transmitted 100Gbps coherent traffic between Tel Aviv and Bari, Italy, a round trip of 4,600km. The coherent transmission, part of a trial in conjunction with the Tera Santa Consortium, used Bezeq International's Jonah submarine fiber cable network.

The Tera Santa Consortium aims to develop the world's first terabit orthogonal frequency-division multiplexing (OFDM) based fiber optic network. The trial was part of the consortium's research into long-distance adaptive coherent channel behavior. It also demonstrated the robustness of the soft-decision forward error correction (SD-FEC) technology the Apollo OMLT employs, ECI asserts.

Eran Dariel, general manager, portfolio business, at ECI Telecom, commented: "The 100G channels from the Apollo OMLT allow submarine cable operators to increase significantly the network capacity over expensive links with minimal network adjustment. ECI already deployed and trialed 100G solutions in various customer networks and now we also displayed our capability over submarine cables."

ECI is a founding member of the Tera Santa Consortium. Other members include Finisar Corp's Israeli subsidiary, Orckit-Corrigent, MultiPhy, Optiway, Civcom, Bezeq International, the Technion Israel Institute of Technology, Ben-Gurion University, the Hebrew University in Jerusalem, Bar-Ilan University, and Tel-Aviv University.

New fiber packages

Toshiba Corporation has launched fiber optic transmission modules capable of sending and receiving signals from DC to 500kb per second with low consumption current up to a maximum distance of 10m using APF (all plastic fiber). They are an addition to its Toslink™ fiber optic transmission device line-up.

A newly developed high-luminosity LED allows the new products to be driven at a lower current than existing products. Also, while existing products consume the same current, regardless of whether the module

is engaged in optical communication or not, the new products have a circuit configuration that cuts current consumption during periods of no communication.

Samples of horizontal-type and vertical-type transmitting and receiving modules will be available by the end of April. Both types will be in mass production during May.

World's thinnest communication cable?

LS Cable & System has developed what it believes to be the world's thinnest 10Gbps LAN cable. With an outer diameter of 7mm, compared to 7.2mm currently available, the cable is said to be lightweight, easy to install and save installation space.



In general, LAN cables are divided according to category. CAT5 (100Mbps transmission) or CAT5E (400Mbps transmission) are widely used in normal households. The new product is a CAT6A, capable of transmitting data at up to 10Gbps.

With the ability to stably and swiftly transmit massive amounts of data, the demand

for this product is anticipated from data centers, research labs, airports and medical facilities. Accordingly, LS Cable & System plans to accelerate its entry into overseas markets in China and Europe as well as targeting major data centers and facilities in Korea.

“In general, a network cabling system needs to be operated for 20 to 25 years. Customers can cut down on their investment cost in terms of management and operation by using the 10Gbps level LAN cable,” explained LS Cable & System senior vice president Hyeongwon Kim (domestic communication/industrial cable business).

More metric springs

Lee Spring will present an updated stock spring catalog, including a new, enhanced range of metric springs, at the UK's FAST Exhibition during April.

The updated catalog details the company's range of over 19,000 springs and spring fasteners, which now includes 2,000 new metric additions. Springs manufactured using metric wire help Lee Spring to offer more accurate spring measurement to customers working in metric units.

“We continue to display our extensive product range in both imperial and metric, but we have the addition of some new metric-wire spring products, including

Redux™ wave spring, torsion spring and, more recently, extension spring designs,” said Chris Petts, MD of Lee Spring. “Metric is increasingly becoming an industry standard as a result of globalization.”

Lee Spring manufactures and supplies springs and fasteners to a wide range of industry sectors, in particular for numerous medical applications, where reliability and precision are essential. The springs are used in pharmaceutical delivery systems such as syringes, intravenous valve controls and automated drug control, as well as medical and surgical devices such as staple guns, catheter valves and anesthetic infusion, and all conform to the stringent quality requirement of medical device and pharmaceutical customers.

At the other end of the fastener spectrum, Lee Spring recently supplied extension springs for the restoration of a Sopwith Dolphin First World War aircraft.

Cut and measured

UK's Spectrum Technologies PLC has introduced Nova MaX, a precision measure and cut system for large gauge wire and cable for aerospace, defense and other industries as part of the production process for complex electrical wire harnesses. MaX will accurately measure and cut to length wire and cable with outside diameters up to 15mm.



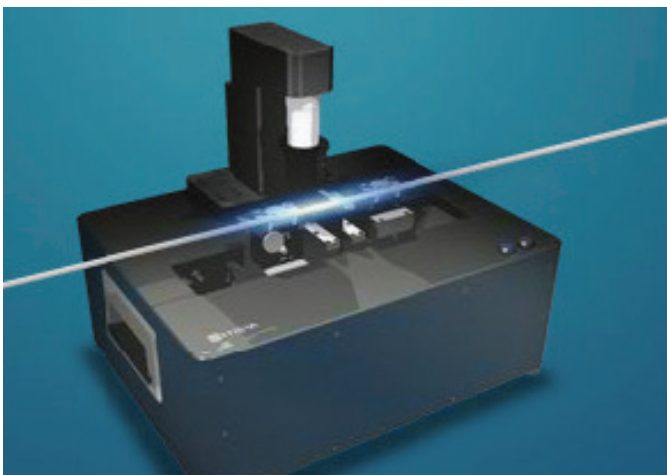
A heat shrink sleeve printer and a label printer can be integrated with MaX to create a complete solution for preparing and identifying cut-to-length wire and cables that cannot be processed on a laser or other wire marking system. Labels and sleeves can be generated in parallel as the wire is cut to length. Wires may be de-reeled from a single de-reeler or wire tree, fed through MaX, and collected in a motorized coiling pan after processing. The pneumatic shear ensures clean cutting of large gauge cables and a controlled acceleration and wire pull mechanism maintains high length accuracy.

The control system is based on Spectrum's proprietary CAPRIS Nova software and is very simple to use. The ability to download job files for processing on MaX is a key feature, enabling operators to transfer job files rapidly and easily and to select and process jobs without the need to enter details of each wire.

Optical fiber splicer

Vytran demonstrated its compact, high-performance CAS-4100 optical fiber splicer, and other precision fiber processing equipment, at the Optical Fiber Communication Conference and Exposition/National Fiber Optic Engineers conference held at Anaheim, California, during March.

"A couple of key trends in telecom are increasing erbium-doped fiber amplifier (EDFA) performance and reducing manufacturing costs," said Jean-Michel Pelaprat, Vytran president and CEO.



"Vytran's proprietary filament fusion splicing technology, along with our mold-plate fiber recoating, enable volume production of very high-strength, low-loss fiber assemblies, including state-of-the-art EDFAs. Our newest splicer, the CAS-4100, offers a combination of this precision splicing and manufacturing cost reduction from a compact machine that is easy to operate and integrates well into a high-volume production line."

The CAS-4100 splices standard and specialty fibers from 80 microns in diameter. CAS systems have a large display screen and computer embedded into the single splicer unit. In addition, CAS splicers are equipped with One Step Splice™ process software with a simple graphical user interface that enables splicing at one touch of a button.

They also feature E-Splice™ technology to allow remote operation and monitoring plus data export for statistical process control.

Make sure your new machines or products receive ALL the publicity they can get!

Send us the details and a photograph for our new Products, Machines & Technology section in wiredInUSA.

To make sure your editorial is published in the May edition – send us the details by **24th April**.

All editorial should be sent to editor David Bell at david@wiredinusa.com

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