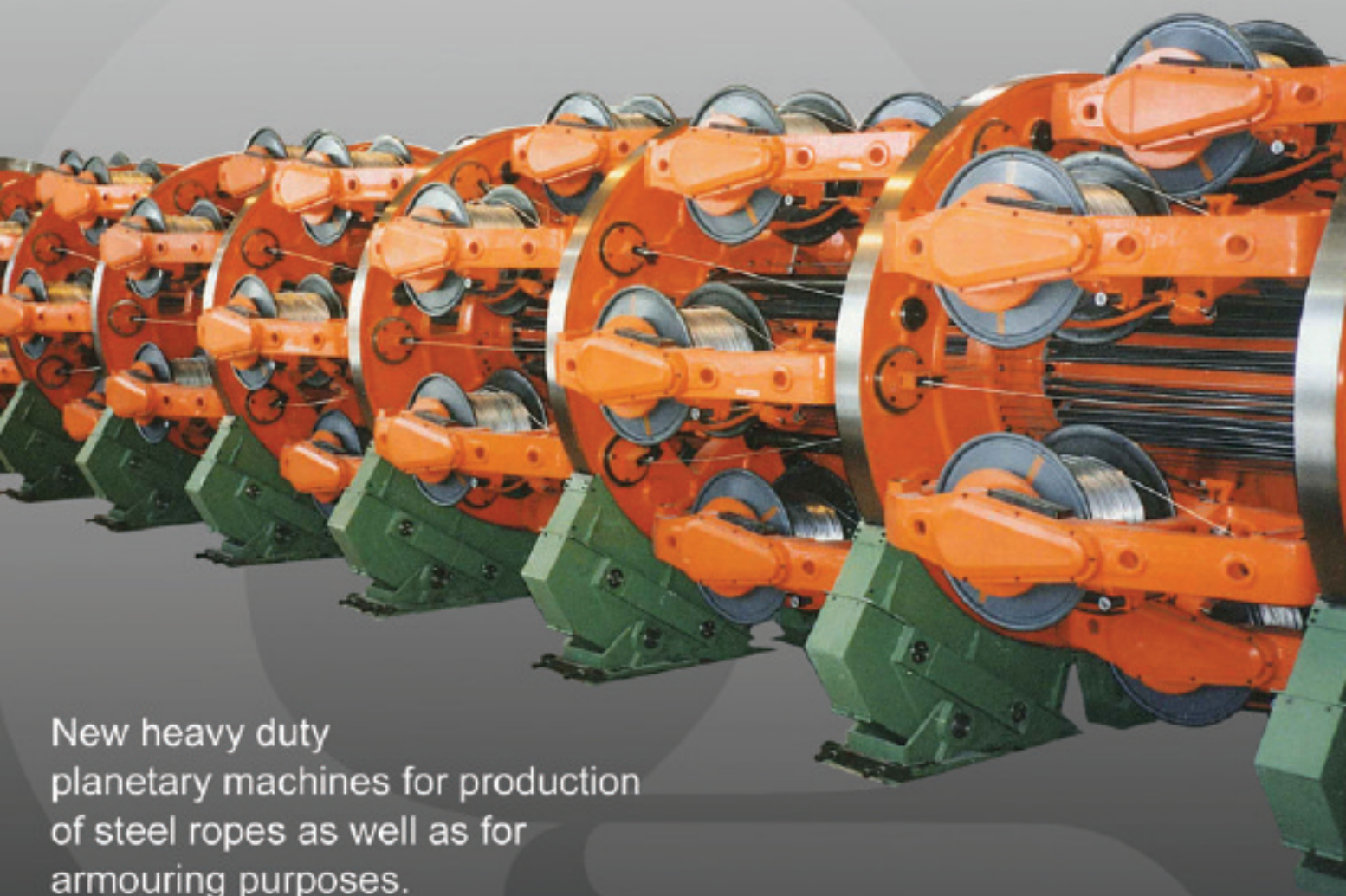




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The NIEHOFF wire drawing machine for the intermediate wire range MSM 224 with individual drives combined with a new induction annealer RI 250 has been developed for wires made of copper alloys, German silver, nickel and nickel alloys and other non-ferrous metals with inlet diameters of 3.5 mm [7 ½ AWG]. The minimized slip operation and the contactless annealing result in wire with a high surface quality and excellent processing properties.

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Contents

in this issue

- 8 Industry News
- 22 行业新闻

- 30 Telecom News
- 32 通信新闻

- 35 From the Americas
- 40 来自美国的消息


- 42 Technology News
- 48 技术与产品

- 50 Wire bending,
straightening
& forming
- 56 线材弯曲、
矫直与造型

- 67 Editorial Index
- 67 通讯目录

- 67 Advertisers Index
- 67 广告索引



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8



42

Technical Articles

59 Loose tube FTTx buffer tube mid-span access – a test method comparison
By Denise L Matthews, Draka Communications, Claremont, NC

64 松管FTTx缓冲套管中跨切入 – 测试法比较
撰写人：美国北卡罗来纳州克雷蒙特Draka Communications公司
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A warm welcome

I would like to start my second term as editor of Wire & Cable ASIA by introducing myself to readers and customers alike.

This is a new column for the magazine and is the first of a number of changes that will be brought in over the next 12 months.

This first subtle change is to give the magazine a more personal look and feel, and we actively invite and welcome ideas from all. Please let us know if there is something you feel we should be covering.

After what has been a traumatic three-year period for the industry, I find myself firmly seated in the editor's chair at the leading wire, cable and fibre optics magazine for Asia, and in a position to try to help all businesses succeed in what will hopefully be a far better economic climate.

Since my departure a little over two years ago I have kept in touch with a number of people and followed the progress of the magazine, and needless to say, I am delighted to be back and working with colleagues who I know have and continue to serve you all well.

For those of you who don't know me from my previous tenure as editor, I have been employed in the media for 27 years, worked as a senior sub editor and deputy editor at some of the UK's largest selling weekly and daily newspapers, and more latterly been part of an editing team serving some 50-60 newspapers UK-wide.

On a more personal level, little has changed since I left Wire & Cable ASIA in 2008. I remain married to my long-suffering wife Helen, and am still passionate about Liverpool FC – although even I recognise massive changes are underway since they came under new American ownership.

My golf has also improved – much to my relief and thanks in no short measure to a quite lengthy spell of lessons from my local club professional.

However, I'm still waiting for that little bit of 'magic' to make tee-ing off a comfortable experience for me!

It would be remiss of me not to mention in my first column the stalwart efforts of the previous editor, Gill Watson.

I know, from talking to staff at the magazine, that Gill was a valuable asset to the company and a personal friend to many businesses that the magazine serves.

I wish Gill well for her future and thank her also for making my move here as easy as possible.

I look forward to meeting many of you at exhibitions throughout the next 12 months and beyond.

David Bell
Editor

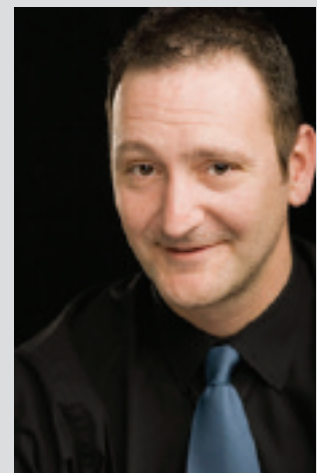




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June 2011

19–23: **JICABLE** – conference and trade exhibition – Versailles, France
Organisers: SEE
Email: jicable@see.assoc.fr
Website: www.jicable.org

September 2011

13–15: **wire Southeast Asia** – trade exhibition – BITEC, Bangkok, Thailand
Organisers: Messe Düsseldorf Asia Pte Ltd
Email: wire@mda.com.sg
Website: www.wire-southeastasia.com

October 2011

4–6: **WiCAB** – trade exhibition – São Paulo, Brazil
Organisers: Grupo CIPA Ltda
Website: www.wicabfair.com.br

March 2012

26–30: **wire/Tube Düsseldorf** – trade exhibition – Düsseldorf, Germany
Organisers: Messe Düsseldorf
Fax: +49 211 45 60668
Email: wire@messe-duesseldorf.de
Website: www.wire.de



○ Emirates Steel 1.6 million tpy HYL Energiron plant with HYTEMP System, Abu Dhabi

World's largest DR module

Nucor Corporation, the premier steel producer in the United States, has signed a contract with Tenova HYL for the world's largest single DR module ever to be constructed.

Nucor will install a 2.5 million ton per year Energiron ZR plant using Tenova HYL's state-of-the-art reformerless process design.

The plant will be built in Louisiana, and will supply highly metallised, high carbon DRI to Nucor steel plants.

The plant will be designed to produce cold-discharge DRI of 96% metallisation and 3.0% carbon in the form of iron carbide, which will be shipped to the various Nucor producing facilities that will use the DRI in their steel making process. Nucor, which

has a long history of leading the industry in its innovative practices, continues to solidify its position with this new project and to further advance in its commitment to secure its long-term supply of quality iron feedstock.

The Energiron ZR process provides significantly low plant operating costs and through intrinsic characteristics of the process, allows the selective capture of CO₂ which can be commercialised as a valuable by-product.

The DR plant will also comply with the strictest environmental regulations by the EPA in terms of NO_x, SO_x and other pollutants, having already been granted the corresponding air permit in Louisiana.

This new project covers the full supply of the DR plant, licence, training and technical assistance in commissioning and start-up. With the support and backing of the Tenova Group, Tenova HYL will supply the full DR plant equipment manufacture and delivery to the client, mainly from USA and NAFTA, and will supervise the project implementation in the USA.

Roberto Pancaldi, chief executive of Tenova HYL, said: "This is a perfect fit in terms of providing the vanguard steel company in the US with what we feel is the vanguard technology in production of direct reduced iron for steelmaking."

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○ Colin Dawson, new IWMA chairman

New chairman for IWMA

After three years as IWMA chairman Stephen Wood's tenure of office ended in February when he was succeeded by vice-chairman Colin Dawson, of Whitelegg Machinery Ltd.

Executive board member Steve Rika was elected as the new vice-chairman and Terry Robinson re-elected honorary treasurer.

Tributes were paid to Stephen Wood for his excellent work as chairman and the IWMA is delighted that he will remain on the Executive Board where his advice to the new chairman and vice-chairman will be invaluable.

Full details of the 2011/2012 officers and board members can be found on the IWMA website www.iwma.org

IWMA – UK

Fax: +44 1926 314755

Email: info@iwma.org

Website: www.iwma.org

Ringing up a 22 per cent increase in profits

In announcing its financial results for 2010, Palestine Telecommunications Company PaTel revealed it had made a net profit of US\$122m – an increase of 22.75 per cent from the previous year.

The board, headed by chairman Sabih Al Masri, recommended a dividend of 35 per cent of a share's par value.

Sabih Al Masri, chairman of the Palestine Telecommunications Company PaTel, announced the financial results for the full year 2010 after a board of directors meeting held in the first week of February, to review the year end financial results of the company, during which the Board recommended to the General Assembly to distribute dividends of 35 per cent of a share's par value.

"The group's ability to achieve such remarkable results is due to the continued growth in all operational indicators, especially in terms of the number of subscribers and improvement in services being offered," said Mr Masri. "The restructuring of PaTel group companies created new strategic directions which led to a re-focus on core business operations in the fixed, mobile and data services.

"In turn, the implementation of a new operational focus resulted in the steady growth of revenues and profits across all companies as a result of the group's ability to adapt and adjust to evident market changes."

Ammar Aker, chief executive officer,

added: "The positive financial results for 2010 is due to the successful implementation of the strategic direction approved by the board at the outset of 2010 and is a result of the company's settlement of some non recurring expenses for license fees and reconciliation of portfolio investment losses carried over from previous years. We are able to claim in 2011 that we are a healthy operation, looking forward to continue our focus on growing our core services."

Consolidated net operating revenues grew 7.88 per cent to reach US\$479m at the end of 2010 compared with US\$444m at the end of 2009.

In regards to the operating revenues of each segment, the company achieved a growth in its fixed line, mobile, data and IT revenues by 10.04 per cent, 9.07 per cent, 9.52 per cent and 13.60 per cent, respectively.

The consolidated operating income for the company reached US\$158m by the end of 2010 compared with US\$147 by the end of 2009, a growth of 7.09 per cent.

This growth was achieved by an increase in consolidated revenues and in light of the new operating policy of focusing operational efforts on core telecom functions and outsourcing support functions.

PaTel – Lebanon

Email: info@pattel.ps

Website: www.pattel.ps

Chemetall acquires Artech Technologies

Chemetall (Australasia) Pty Ltd has acquired the assets of Artech Technologies Pty Ltd, a speciality chemical company based in Geelong, Victoria, Australia.

Artech Technologies is a specialised supplier of high quality metal working fluids and surface treatment technologies. Established in 2002 as a privately owned company, Artech Technologies customers are mainly located in Australia and New Zealand.

With the acquisition, Chemetall further strengthens its presence in the Australasia and South East Asia region and enlarges its product range for the metal working and surface treatment industry.

Chemetall – Germany

Fax: +49 69 7165 3428

Email: info@chemetall.com

Website: www.chemetall.com



○ The Changchun site in China

Expansion ahead of polyether boom

Germany-based Evonik Industries is expanding its polyether ether ketone (Peek) capacity in response to growing global demand.

Along with a number of optimisation measures, the company is modernising an existing plant at the Changchun site in China, which is scheduled to be completed by the third quarter of this year.

Evonik has been selling its highly temperature-proof and chemical-resistant Peek polymers under the brand name Vestakeep® for a number of years. They are used for manufacturing components that must withstand long-term use under the most severe end-use environments.

“The capacity expansion not only reflects the continuous growth in all relevant industries, but is also the result of the successful commercialisation of numerous new projects. This expansion testifies to the on-going commitment we are making to support our customers continued growth,” said Sanjeev Taneja, Evonik’s global business Vestakeep® manager.

Evonik has more than 40 years’ expertise in high-performance polymers and enjoys an excellent reputation as a reliable partner in all relevant Peek segments.

Vestakeep® Peek polymers are used in demanding applications in medical as well as in the automotive, aerospace, semiconductor, and entertainment electronics industry and in the oil and natural gas sectors.

Thanks to the unique combination of mechanical, thermal and tribological properties Vestakeep® Peek allows the replacement of metal in these and several other applications.

Vestakeep® 5000G is the latest Peek polymer addition to Evonik’s product range. The material offers significantly higher impact resistance and a better fatigue profile under dynamic stress as compared to commercial available grades. It addresses the unmet needs of the customers.

The company also introduced its Vestakeep® M and Vestakeep® i series for applications in the medical and implant industry two years ago.

The comprehensive product portfolio covers virtually all industrial applications and supports Evonik’s strategy of serving as a long-term, reliable partner in the Peek market.

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First hand experience of materials

Visitors to Middle East Electricity Exhibition 2011 in Dubai experienced first-hand why wire and cable manufacturers across the globe are choosing advanced insulation, semi-conductive and jacketing materials from Borouge and Borealis, leading providers of innovative, value creating plastics solutions to the global wire and cable industry.

Borouge and Borealis will provide polymers to Prysmian, a worldwide leading player in the energy and telecommunications cables industry, for the extra high voltage power cables to be manufactured for the Bahia and Saadiyat Grid in Abu Dhabi, UAE.

This is a 400kV power extra high voltage transmission turnkey project being developed by the Abu Dhabi Transmission and Dispatch Company (TRANSCO) as part of the significant infrastructure development within the city.

TRANSCO Abu Dhabi has appointed Prysmian Cables and Systems for the execution of the project at an estimated cost of €250m (approx 1.15 billion AED).

The 230km cable length for this project will be manufactured by Prysmian with the aid of Borouge and Borealis' materials, which address the project's critical demands for reliable, consistent and long-term performance.

The cables for the project will be taken underground with the Superclean™ insulation and Supersmooth™ semi conductive compound from Borealis that will replace the existing overhead lines resulting in a significantly lower environmental impact.

These highly advanced plastics solutions are manufactured by Borealis in Europe and distributed by Borouge in the United Arab Emirates.

The new power link is of critical importance for Abu Dhabi's power transmission system as it will connect the Bahia and Saadiyat Grid Stations with some of the most prestigious infrastructure and real estate development areas including Yas Island, the location of the new F1 racing track and the Saadiyat Island's Abu Dhabi Cultural District that will

also host global iconic museums like the Louvre and Guggenheim.

Superclean cable materials are manufactured using advanced procedures to ensure they are free from contamination and that their cleanliness is maintained to the point of delivery.

The performance of these insulation materials is complemented when used in conjunction with Supersmooth for the semi-conductive layers of XLPE cable and with a Borstar® grade for the jacketing.

That ensures better friction resistance to be pulled into the ducts, lower shrinkage and excellent ESCR also in sea water.

"Cable durability is especially important for those customers serving the high voltage cable market where the need for cables that deliver consistent, high performance under extreme electrical stresses is crucial," said Michael Bjorn, Borouge's vice president for wire and cable.

"Also, we are excited about the addition of XLPE production capacity at our polyolefins plant in the Middle East which will allow us to satisfy even more the growing global customer demand for wire and cable products."

Borouge – United Arab Emirates
Fax: +971 2607 0999
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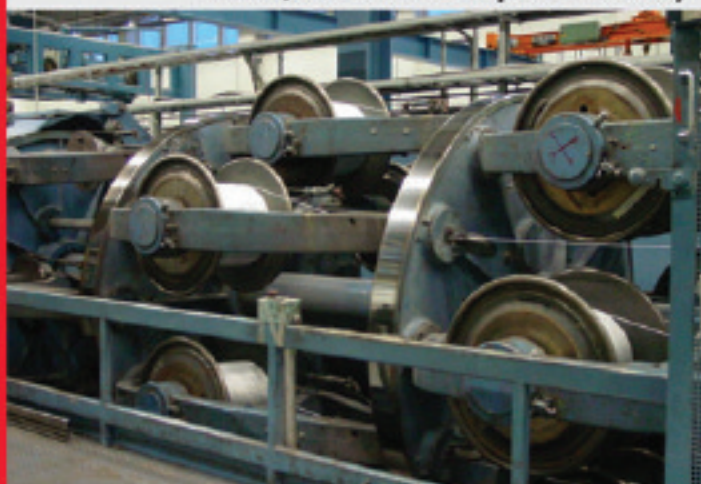
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Refinancing and Hong Kong listing

Creat Resources Holdings Limited has completed pre-IPO fundraising by ASX-listed Galaxy Resources, in which it is a major shareholder.

Although Galaxy is already listed in Sydney, Australia, it has announced an impending dual listing on the Hong Kong Stock Exchange.

The new share placing raised A\$91.5 million (approx £57 million) from a single new shareholder – Fengli Group (Hong Kong) Ltd, at A\$1.39 per share.

CRHL last year completed the acquisition of a 19.9% shareholding in Galaxy at an agreed price of A\$0.88 per Galaxy share. That shareholding has now been diluted to 17.78%.

Creat Resources Holdings Ltd – Australia
Fax: +61 36234 3884
Email: enquiries@creatresources.com
Website: www.creatresources.com

DMS's Indian partnership

Royal DSM is starting a partnership with Kemrock Industries in India for the production of speciality composite resins in the country.

DSM and Kemrock together will invest US\$25 million in the joint venture.

With this partnership DSM, one of the leading composite resins providers in the world, will structurally strengthen its presence in India and leverage its depth of technological knowledge and global customer relationships.

Both partners will utilise and leverage each other's strengths whereby DSM will focus on the supply of innovative specialised composite resin solutions to the fast growing Indian market, while Kemrock will concentrate on the production of high end composite parts.

DSM will hold 51% and Kemrock 49% in a joint venture, which will be based in Pune.

In addition to the joint venture, DSM will establish its own local marketing and sales company for composite resins to serve the Indian domestic market.

Nico Gerardu, a member of the DSM managing board and responsible for the Performance Materials cluster, said: "This joint venture fits with all four growth drivers of our strategy DSM in motion: driving focused growth and

provides an excellent opportunity to further grow our composite resins business in India. In addition, this joint venture re-confirms our longstanding commitment to India, a country that has become an important market for DSM."

Michael Effing, president DSM Composite Resins, added: "We are excited to start working with Kemrock Industries, a well-known and highly respected partner and market leader in India in composite parts. We are convinced that our joint venture will play an important role in the fast growing market for composites in India, as the number of applications and markets continues to grow."

Composite resins (unsaturated polyester resins, including vinyl esters and additives) are used in the production of fibre reinforced plastics or non-reinforced filled products.

Due to the ease and freedom of processing, unsaturated polyester resins can be applied in the manufacturing of small and very large structures.

Composite resins are well known in applications in marine and automotive, but also in, for example, wind turbine blades.

Royal DSM NV – Netherlands
Email: info@dsm.com
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Drawing on past experience

The first wire and cable compound in the Medalist® family of medical elastomers is formulated and produced in accordance with stringent medical-industry requirements yet draws on technology with a long track record of success in non-medical insulation and jacketing applications.

Like other Medalist elastomers, Medalist MD458 compound is a high-purity formulation that has passed ISO 10993-5 cytotoxicity testing, is RoHS and REACH compliant, and is manufactured in Teknor Apex's dedicated medical compounding facility in St Albans, Vermont, USA.

The new compound also provides the same electrical performance, elevated service temperature rating, and resistance to chemicals and sunlight as the company's Elexar® EL8431, a thermoplastic elastomer (TPE) with

more than two decades of service in wire and cable.

Medalist MD458 has a Shore A hardness of 70, a flammability classification of HB (UL-94), and a maximum continuous operating temperature rating of 105°C (UL-1581).

It has passed standard tests for oil resistance after seven days at 60°C and UV resistance after 720 hours.

These properties lend themselves to applications in hospital and healthcare environments requiring excellent flexibility, durability, and chemical resistance.

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○ Above and below, the two heavy duty capstans supplied by Queins

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Website: www.dgzhangli.com
Email: zlf@changsha.net

Queins & Co, Germany, has supplied two heavy-duty caterpillar capstans to a Chinese customer, both laid out for a pulling force of 120 kN (12 tons) each.

Queins & Co GmbH – Germany
Fax: +49 247 230 14
Email: info@queins.com
Website: www.queins.com

The equipment can work with either two belts or four belts at a time.



Record sales just short of €3bn

Leoni, the leading provider of cables and cable systems to the automotive sector and other industries, generated record sales of some €2.96 billion (previous year: €2.16 billion) in the financial year 2010, according to preliminary calculations.

Apart from a further increase in the copper price, the forecast figure of about €2.8 billion was substantially exceeded thanks to a dynamic uptrend in demand from both the automotive industry and all other pertinent markets up to the end of the year.

The very strong increase in sales of cable harnesses and wiring systems for vehicles in the BRIC countries, as well as the USA, merits particular mention.

Likewise in terms of earnings before interest and taxes (EBIT) Leoni succeeded, with a figure of about €131 million (previous year: loss of €116 million), in clearly beating its most recent target of €120 million.

Further restructuring charges incurred in the fourth quarter are already absorbed in this result.

Leoni managed to significantly exceed

Range covers all applications

Formed in 1966, Alanco-Alamatic Ltd, manufacturer of industrial disc brakes, brake discs, safety chucks and tension control equipment, has a range covering virtually all braking applications.

There is a continuing research and development programme with all the products plus new product ideas to deal with applications where disc heat build-up has become a problem. With a range of brake pad grades, lo-coefficient, standard and hi-coefficient, there is a great versatility within the range.

Alanco-Alamatic Ltd – UK
Fax: +44 161 335 0100
Email: ingo@alanco-alamatic.com
Website: www.alanco-alamatic.com

its target of at least neutral free cash flow. Consequently, net debt could be reduced by around €50 million according to preliminary figures, being again below equity at year end for the first time since the onset of the economic crisis.

Leoni reaffirms its sales forecast of more than €3.1 billion for the 2011 financial year. The company is

confident of generating further, significant increases in earnings. The recent impairment of production and logistics at the facilities in Tunisia and Egypt will, as it stands today, not result in any material financial burden.

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Lihua buying its own shares

Lihua International is to repurchase up to \$15 million worth of its common shares over the next 12 months.

The company plans to purchase shares from time to time, on the open market, or through private transactions.

The timing of purchases, number of shares purchased and prices at which shares are purchased will be determined by Lihua's management, and will be subject to market conditions as well as other factors.

This programme will be funded from the company's available cash and operating cash flow.

"During 2010, we achieved our primary strategic and operational objectives of expanding capacity and growing our top and bottom-line results, and entered 2011 poised for continued strong growth as copper demand in China remains robust," said Jianhua Zhu, chairman and CEO.

"With our new refined copper production facility scheduled to come on line in the second half of the year, we believe that our shares represent a compelling investment opportunity at current levels.

"It is unfortunate that there have been a number of false allegations regarding our company.

"We work extremely hard at Lihua and have a proven track record of growth, as well as sound business and financial reporting practices that are in compliance with US SEC regulations, as well as PRC tax regulations.

"We believe these attacks are an attempt to undermine the significance of our accomplishments for the benefit of a group of short sellers.

"We stand by the legitimacy and validity of our financial results and internal controls that are further overseen by a top-10 auditing firm.

"The approval of this share repurchase plan reflects the confidence of our Board of Directors and management team in our ability to continue carrying out our growth strategy and our strong commitment to enhancing shareholder value."

Lihua International Inc – China
Email: info@lihuaintl.com
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Kistler's new range of mould sensors

Switzerland-based Kistler has developed a new range of indirect mould sensors which come with a single-wire, replaceable cable.

Kistler says the single wire simplifies mould manufacturing, as only a single bore hole is needed for the cable.

In addition, several cables can be threaded down a single bore meaning the sensor is ideal for multi-cavity mould applications.

The sensors can be used with multi-channel technology allowing up to eight sensors to be connected to a Kistler process monitoring system.

The sensors can withstand operating temperatures of up to 200°C.

Kistler Instrumente AG – Switzerland
Fax: +41 52 224 1414
Email: info@kistler.com
Website: www.kistler.com

Pushing along nicely thanks to Nu-Star

Elsowedy Electric is the leading integrated cables and electrical products manufacturer in the Middle East, specialising in providing complete and integrated energy solutions in sectors as diverse as telecom, energy management, turnkey projects, electrical products and wind energy generation.

The company employs more than 10,000 people in 30 production facilities located in 15 countries around the world and exports to more than 110 countries worldwide.

The Egytech plant in Ramadan City, Egypt, manufactures medium and high voltage power cables up to 500kV rating for the Middle East, African and European markets.

Egytech first contacted Nu-Star in October 2008 in search of a machine powerful enough to push the larger 40,000kg+ cable drums that they were due to shortly start production of. They had been unable to find a suitable product elsewhere on the market.

Following similar requests, over the previous two years, Nu-Star had developed a larger iteration of its existing Super Power Pusher unit and was able to offer the Dual Motor Super Power Pusher for this application. This newest product is powered by two 1.5kW DC electric motors and creates over 13,000 Newtons of pushing force, and is ideally suited to this type of application where an extremely high starting torque is required to overcome the rolling resistance of the load.

After 18 months of successful operation and favourable feedback from its staff on the shop-floor, Egytech purchased an additional unit in August last year to help meet increased rates of production in its factory.

Commenting on the purchases, Mr Wael Farag (Egytech, Corporate Foreign Procurement) said: "The Nu-Star Drum Pusher seems quite unique in the market place and is perfect for our requirements. It is very



○ The Dual Motor Super Power Pusher from Nu-Star

durable and has all the power we need to move our larger cable drums.

"Compared to other alternatives, such as a forklift truck, it is significantly smaller and cheaper and there are no fumes to consider when using it inside the factory. It's extremely easy to operate and is very much safer than trying to move these drums by hand."

The Dual Motor Super Power Pusher is the latest addition to the range of pedestrian operated, electric tug units designed and manufactured by Nu-Star.

With manufacturing locations in Derbyshire, UK – serving the EU, Middle East and Australasian markets and also in Minneapolis, USA – serving the north and south American and Canadian markets and a growing list of global distributors, Nu-Star is able to offer both standard and bespoke solutions for the movement of heavy loads across many industrial sectors.

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One of the top firms in China

Asia Pacific Wire & Cable Corporation Limited announced its wholly owned subsidiary, Pacific Wire and Cable Shenzhen, has been recognised as one of the top wire and cable companies in China, and another subsidiary has received several significant new contracts.

PEWSC has been awarded second place in the '2010 Top Ten China Wire and Cable Companies' honours conferred annually by HC, a leading service provider of B-to-B e-commerce in China; the China Electrical Equipment Industrial Association; and the China Transformer Industry Association.

PEWSC was selected from a group of 1,600 companies that took part in the event. This honour recognises the company's commitment to excellence, and was awarded by the industry, government, academia and customers.

Separately, the company's 98.3%-owned subsidiary, Sigma Cable Company (Pte) Ltd recently secured two contracts with a total value of approximately \$14.1 million.

The first contract is with SP PowerAssets Limited, the sole electricity transmission and distribution company in Singapore, and is valued at approximately \$9.4 million.

Sigma Cable will undertake a turnkey project to construct a network of 66 kV power lines to be completed during the next two years. This project is the first of many to be awarded this year as the



○ The award presented to Pacific Wire and Cable Shenzhen

Singaporean government (LTA) finalises road diversions for its Mass Rapid Transport system (the Downtown line).

In the second contract, which will be fulfilled under the terms of the ASEAN Free Trade Area (AFTA) agreement, Sigma Cable will provide electrical power cable to a Brunei Public residential area with 1,100 housing units, with a contract value of approximately \$4.7 million.

This contract will supply high-quality, low-voltage power cable to Sigma

cable's strategic partner, DHJ Electrical Engineering, one of the most prominent contractors in Brunei, for delivery in April, May and June of 2011.

Brunei remains a niche overseas market for Sigma Cable, and its government is likely to release additional contracts for public housing projects in the coming years.

Asia Pacific Wire & Cable Corporation Ltd – Taiwan
Email: info@apwcc.com
Website: www.apwcc.com

Supplying steel reels for 49 years

A Appiani Srl is an ISO 9001:2008 certified manufacturer and supplier of steel reels for the cable and wire industry.

Since 1962 the company has been making itself known on the international market by offering solutions according to either internationally recognised standards or to customers' own specific requirements.

The company's range of products includes:

- B-type spools for steel cord and saw-wire applications
- Structural reels for cable, rope and strands suitable for one-way/multiple

- shipping and internal process
- Double flanged pressed steel reels suitable for extruding process (BAP type)
- Pressed steel reels our type BCG for internal process and shipping of ferrous and non-ferrous wire
- Composite steel-ABS reels for extrusion of fibre optics and telecom cables (P-types)
- Solid flange (BPE) and double flanged (BPS) processing reels, for wire and multi-wire drawing
- Double flanged processing reels for heavy duty (BTC type)
- Collapsible take-apart reels (hydraulic, mechanic, pneumatic) for coils (BSC type)
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- Reel reconditioning machinery for B-Type spools

Advanced manufacturing machinery such as automatic welding units, presses, CNC lathes machine, state-of-the-art straightening and balancing units, reel tilters and handling systems ensures high quality products and a well equipped quality control system provides efficient services and technical support to customers.

Appiani Srl – Italy
Fax: +39 030 9382 425
Email: info@appiani.reels.it
Website: www.appiani.reels.it

€50m investment in new facility

Royal DSM's joint venture – Jinling DSM Resins Co Ltd (JDR) – is investing approximately €50 million in a new production facility for composite resins in Nanjing, China.

The new facility, which will replace the current facility, will be among the largest manufacturing plants for composite resins in the world. DSM's share in the investment is 75 per cent.

The new facility will substantially strengthen the local position of the joint venture in the markets for composite materials in China.

DSM holds 75 per cent of the shares in JDR whereas Sinopec Assets Management Co Ltd holds 25 per cent in the joint venture.

The expansion follows on the continued strong demand for high-end resins in all the application segments in the region. The new unit is expected to come on stream early 2012.

Nico Gerardu, the member of the DSM managing board responsible for performance materials cluster, said: "This investment perfectly fits in our strategy DSM in motion: driving focused growth.

"For several years in a row demand for composite resins in China has been larger than the capacity to produce.

"With this large investment in local manufacturing capacity DSM is preparing itself to take our growth in China in composite resins to the next level.

"It will also contribute to our 2015 target of doubling DSM's sales in China compared to 2010 to over US\$3 billion."

Dimitri de Vreeze, president DSM Resins, added: "With this new factory, in combination with the new R&D centre for composite materials in Shanghai which we announced in October 2010, we, together with our

JV partner Sinopec look with confidence to a bright future ahead for our composite resins business in China."

This investment allows DSM to further drive its growth in China in sustainable, innovative solutions. Composite resins can create ecological benefits throughout the whole value chain (with end-markets such as transportation, wind energy, tanks, pipes and relining and building and construction) by reducing energy use, emissions and waste.

Many of DSM's innovations in composite resins are ECO+ products – products and services that, when considered over their whole life cycle, offer clear ecological benefits compared to the mainstream solutions they compete with.

Jinling DSM Resins Co Ltd – China
Fax: +86 8556 4848
Email: info@jdr.com
Website: ww.jdr.com

USED WIRE AND CABLE MACHINERY FOR SALE

REF#	Description
34-212	· <i>EVG GZN Mesh Welders</i> , 1.5 to 4 mm, 2 available, 2750 mm wide, year: 1999
34-210	· <i>PITTINI Mesh Welder</i> , 1525 mm wide, 4" X 4", 2.5 to 5.5 mm, year: 2001
34-208	· <i>VIDA Automatic Girder Welding Line</i> , Year 1999
34-211	· <i>SCHLATTER Posiweld Phoneix II Mesh Welder</i> , year 1997
34-206	· <i>SCHLATTER Mesh Welder</i> , MG. 28, 2800 mm Width, 3.5 to 12.5 mm, Year 2009
34-213	· <i>CLIFFORD Jig Welder Model # 12-12</i> , 12 mm wire dia max. Year 2000
34-214	· <i>SCHLATTER GP3 Jig Welder</i> , Year 1986
34-215	· <i>CLIFFORD 1850 mm wide Mesh Welder</i> , 4.5 to 6.5 mm Wire Dia. Year 1999
21-145	· <i>PROPERZI Continuous Copper Casting and Rolling Line</i> , 12 tons/hour, 8 mm rod
27-235	· <i>DAVID STANDARD Jacket Extrusion Line</i> , 4.5", 24:1 Extruder Complete line, 1999
28-116	· <i>HOLTON Conform Line, Model C500</i> , Enter 7/8" rod,
21-146	· <i>OUTOKUMPU Complete Copper Casting Factory</i> , 60,000 sq.ft.
21-147	· <i>CONTINUOUS Copper Rod Caster and Rolling Mill</i> , 13 t/h, 8 mm, New 2009

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每年的 Energiron ZR 装置。该装置将在路易斯安那州建成，将为 Nucor 的钢铁厂提供高金属化、高碳 DRI。

本装置将用于生产 96% 金属化和 3.0% 碳的铁碳合金式冷排放 DRI，这些将输

送给钢铁制造过程中需要使用 DRI 的各种 Nucor 生产设施中。在创新实践上多年来具有领导地位的 Nucor 公司继续以新项目来巩固其地位，进一步推进他们的承诺，确保长期提供优质的铁原料。

Energiron ZR 工艺大大降低了装置操作成本，通过工艺本身的特点，使可选择的获取 CO 可以商业化为一种有价值的副产品。该 DR 装置还将符合最严格的关于氧化氮、氧化硫和其他污染物的 EPA 环境规程，而且已经被授予路易斯安那州的相关空气许可证。

这个新项目包含全部 DR 装置供应、许可证、调试和开车培训以及技术支持。在 Tenova Group 集团的支持和资助下，Tenova HYL 将提供全套 DR 装置设备制造和交付给主要来自美国和北美自由贸易协定的客户，并将监管该项目在美国的执行。

Tenova HYL 的首席执行官 Roberto Pancaldi 说：“这最适合供给美国领先的钢铁公司，我们感受到的是用于炼钢中的先进的直接还原铁生产技术”。

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“2010 期间，我们达到了扩大我们产能以及增长我们营收结果的主要战略和营业目标，进入 2011 年后，随着中国持续稳健的铜需求，我们持续稳健地增长，”主席和 CEO 朱建华（音）说。

“随着我们新的精制铜生产装置计划今年下半年投产，我们相信我们股票代表了当前的一个很好的投资机会。但不幸的是，却有许多针对我们公司的虚假指控。”

“我们在利华工作得很努力，拥有可证明的增长记录、以及良好的符合美国 SEC 法规和中国税务法规的业务和财务报告惯例。我们相信，这些攻击是为了一群短期购买方利益而试图诋毁我们成就的重要意义。”

“我们坚持我们财务结果以及内部控制的合法性和有效性，这些得到了排名 10 强之一的审计公司的监督。”

“对这次股份重购计划的批准反映了我们董事会和管理层对我们继续执行我们增长战略和承诺增强股东价值能力的信心。”

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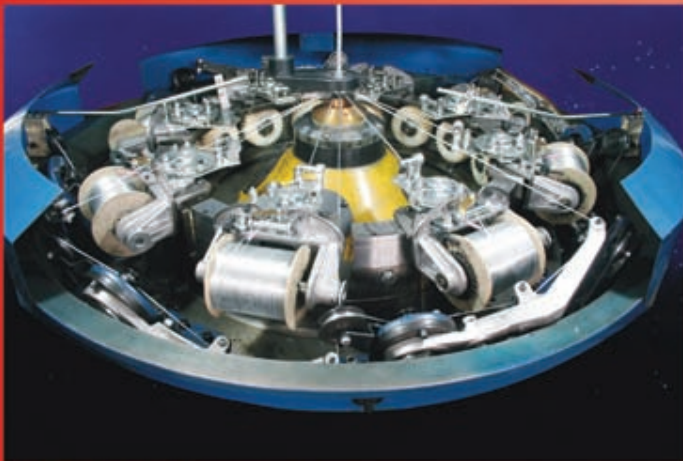
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Egytech第一次与Nu-Star接触是在2008年9月, 那时他们在寻找能推动不久就将开始生产的较大的40,000kg+电缆盘的机器。他们一直未能在市场上其它地方找到合适的产品。

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 网址: www.alanco-alamatic.com

在相似要求下, 两年多前, Nu-Star公司在现有超大功率推动器的基础上已开发了较大的型号, 并且能够提供双电机动力推动器用于该应用。这个最新的产品由两台1.5千瓦的直流电机驱动, 能产生13,000牛顿推力, 非常适合这种需要高起动力矩来克服荷载滚动阻力的应用。

在18个月的成功运转以及得到车间员工好的反馈后, Egytech在去年8月又采购了一台装置来满足他们工厂增加的生产率。对于这些购买, Wael Farag先生(Egytech公司对外采购)说: “Nu-Star电缆盘推动器在市场上是相当独特的而且很适合我们的要求。它非常耐用而且具有我们推动电缆盘所需的全部力量。”

“与其它替代品如叉车相比, 它小得多, 便宜得多, 而且在工厂内使用时无需考虑废气。它非常易于操作, 而且它比试图用手来推动这些电缆盘来说安全得多。”

该双电机超大功率推动器是步行式操作系列最新产品, 电动拖拉装置是Nu-Star设计和制造的。

在英国德比郡的生产基地(www.nu-starmhl.com) —服务于欧盟、中东和澳大利亚市场服务, 在美国明尼阿波里斯市的生产基地——服务于美国北部和南部以及加拿大市场, 以及不断扩大的全球分销商名单, 使Nu-Star能够为许多工业领域提供标准的和定制的重载移动解决方案。

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A Appiani Srl是一家获得ISO 9001:2008认证的线缆用钢轴制造商和供货商。自1962年起, 公司按照国际认可的标准或根据客户定制要求为客户提供解决方案, 获得了国际市场认可。公司为这个领域的所有主要经营商提供各种产品:

- B型线轴, 用于钢丝绳线和锯线
- 结构线轴, 用于电缆、线绳和绞合线, 适合于单程/多程运输和内部工艺
- 双法兰压制线轴, 适合于挤出工艺(BAP型)
- 压制线轴, 我们的类型是BCG, 用于黑色和有色线材的内部工艺和运输
- 复合钢制线轴-ABS线卷, 用于光纤和通信电缆(P型)挤出
- 实心法兰(BPE)和双法兰(BPS)加工线轴, 用于线材和多线材拉伸
- 双法兰加工线轴, 用于重型(BTC型)
- 可伸缩分离线轴(液压、机械、气动), 用于线圈(BSC型)
- 钢制托盘, 用于线轴储存和盘线装置
- 线轴搬运设备、线轴起重和倾斜设备
- 线轴调节机械, 用于B型线轴

Appiani投资于研发和先进技术生产, 旨在改进质量, 优化生产时间和成本, 发现新的、能改进已有产品的解决方案。

先进生产设备, 例如自动焊接设备、压制、CNC车床、一流的拉直和平衡设备、线轴倾斜和搬运系统, 保证高质量产品和配备质量控制系统, 为我们的客户提供有效服务和技术支持。

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LMH的新建筑

在LMH Industries租下17000ft²的建筑后, 美国俄勒冈州Redmond出现一个新的制造业务 - 新型电缆组件生产设施。一旦他们全速运行后, 他们希望有40个人在那里工作。

公司发言人Nikki McQuillians说, 很高兴把公司设在Redmond。

“我们查看了俄勒冈州的几个场地, 最终鉴于Redmond的人力资源 and 人口而决定把公司设在Redmond, 对我们的业务来说这在后勤上是一块理想之地。”

LMH将生产电缆组件和线束, 通常用于军队和医药行业。在初期, 他们将雇佣15名员工。

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推出新的网站

Electrolock Incorporated推出一个新网站, 尤其针对线缆生产行业的专业人士。

Electrolock是行业领军者, 设计、生产高温电气绝缘材料, 用于各种线缆领域。从1957年起, 它一直在开发材料设计解决方案, 用于高性能电气和热绝缘产品。

它拥有的材料包括但不限于 Cablosam®云母带、Apical聚酰亚胺薄

膜、硅玻璃、Craneglas、Mylar®薄膜和 Nomex®纸。

Electrolock拥有满足许多应用需求的专业知识和产品, 包括高温要求。这些应用包括家电线材、火焰屏障、电路集成、磁线、牵引马达和井下泵。

销售经理Rich Reed说“长期以来, 我们的质量革新和技术在许多工业领域(包括

电气和热绝缘)处于领先地位。我们一流的电气和化学实验室使我们在新产品和工艺开发方面处于领先地位。此外, 我们快速响应和协作性的工程保证了快速大检修和很短的订货时间。”

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利润提升22%

Palestine Telecommunications Company PalTel在公布其2010年财务结果时同时披露其净利润达1.22亿美元, 比去年提升了22.75%。

由Sabih Al Masri主席领导的董事会建议按票面金额35%分红。

在2011年2月第一周举行的董事会会议后, Palestine Telecommunications Company, PalTel主席Sabih Al Masri宣布了2010年全年财务结果, 回顾了公司的年末财务结果, 期间, 董事会建议在3月31日举行全体大会, 按照票面金额35%分红。

“集团达到如此骄人业绩源于所有经营指标的持续增长, 尤其是在用户人数和服务改进方面的持续增长,” Masri先生说。

“PalTel集团公司的重组创建了新的战略方向, 引导公司致力于固定、移动和数据服务的核心业务经营。反过来, 新的业务经营重心实施后为整个公司带来了收入的稳定增长和盈利, 使公司有能力强适应市场变化和进行调整。”

首席执行官Ammar Aker补充道: “2010年取得的财物业绩源于成功地实施了董事会于2010年初制定的战略方向, 是公司解决了历年带来的一些专利许可费一次性支出和有价值证券投资损失的结果。我们能够在2011年宣称: 我们的经营处于健康状态, 期望继续将我们的重心集中于增长我们的核心业务。”

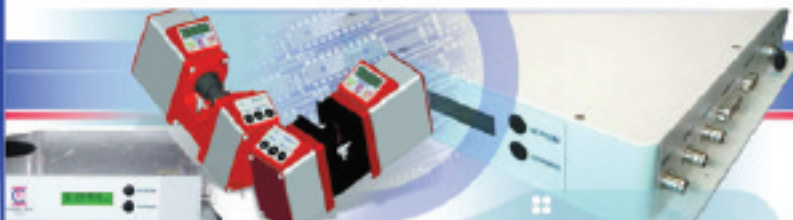
综合净营业收入增长了7.88%, 2010年末达到4.79亿美元, 而2009年末为4.44亿美元。公司在固定、移动、数据和IT各个单元的营业收入分别增长了10.04%、9.07%、9.52%和13.60%。

公司2010年末综合营业收入达到了1.58亿美元, 而2009年末为1.47亿美元。这个增长源于综合收入增长、以及依照新的经营政策 - 集中精力经营核心业务电信功能和外购支持功能。

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- 测量范围: 0.05 - 80mm

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- 在线高精度
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- 测量范围: 0.05 - 80mm

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工厂扩建来增加聚醚生产

基地在德国的Evonik Industries公司正在扩大其聚醚醚酮(PEEK)生产能力来响应全球不断增加的需求。凭借大量的优化措施,公司正在对其在中国长春的现有装置进行现代化,计划于今年第三季度完成。

Evonik公司多年来一直在出售品牌名为Vestakeep®的耐高温、耐腐蚀性的聚醚醚酮聚合物。他们被用来制造必须能忍受在最恶劣的终端使用环境下长期使用的零部件。

“生产能力的扩大不仅反应了所有相关产业的不断增长,而且是许多新项目成功商业化的结果。这一扩大证明我们正在向我们客户持续增长的支持做出承诺。”Evonik的Vestakeep®全球业务经理Sanjeev Taneja说到。

Evonik在高性能聚合物方面已有40多年的经验,并在所有与聚醚醚酮相关细分市场享有很高声誉。Vestakeep®

Peek聚合物用于医疗、汽车、航空航天、半导体、和娱乐电子产品行业以及石油和天然气领域。此外,由于在机械、热性能和摩擦学性能上独特结合的Vestakeep® Peek允许更换在这些应用或其他应用中的金属。

Vestakeep® 5000G是Evonik产品系列最新加入的聚醚醚酮聚合物。该材料能提供更高的耐冲击性和动态应力下更好的抗疲劳轮廓。它解决了客户哪些不能满足的需求。

两年前,公司还推出了Vestakeep® M和Vestakeep® i系列,用于医疗和植入行业。整套产品系列涵盖差不多所有行业应用,并且能支持Evonik成为聚醚醚酮市场长期、可靠的合作伙伴这一战略。

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Kistler新型注塑传感器

以瑞士为基地的Kistler公司开发出一种新型间接注塑传感器,它配备一根可更换的单线电缆。Kistler说单线简化了注塑生产,因为电缆只需要一个单孔。另外,可以将若干根电缆用螺纹连接在一起,穿入一个单孔,这意味着传感器对多穴注塑应用是很理想的。传感器能与多通道技术一起使用,允许8个传感器连接到一个Kistler工艺检测系统传感器能承受200°C的操作温度。

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DSM的印度合作伙伴

Royal DSM与印度Kemrock Industries结成合作伙伴关系,在国家生产特殊复合树脂。DSM和Kemrock一起向合资公司投资2500万美元。

与DSM这样一个在复合树脂方面全球领先的公司合作将加强其在印度的市场份额、技术知识和全球客户关系的深度。两个合作伙伴将利用各自的强项,DSM将致力于快速发展的印度市场提供革新的特殊复合树脂解决方案,而Kemrock将致力于高端复合树脂部件生产。DSM将持有51%股份,Kemrock持有49%股份,公司设在Pune。除合资公司外,DSM将建立自己的当地市场和销售公司,使复合树脂服务于印度国内市场。

负责性能材料业务的DSM董事会董事Nico Gerardu说,“这个合资公司符合DSM战略的所有四个增长驱动力:推动集约增长,在印度提供进一步增长复合树脂业务。另外,这个合资公司再次确认了我们对印度的长期承诺,一个成为DSM重要市场的国家。”

DSM复合树脂总裁Michael Effing补充道:“我们很高兴与Kemrock Industries合作,这是一个著名的、让我们尊敬的合作伙伴,也是印度复合树脂市场的领军者。我们相信,随着许多应用和市场的持续增长,我们的合资公司将在快速增长的印度复合树脂市场中发挥重要作用。例如,我们的复合树脂不仅提高风力透平的效率,还替换了汽车应用中的金属。”

复合树脂(不饱和聚酯树脂,包括乙烯酯和添加剂)用来生产纤维加强塑料或非增强性填充产品。由于加工的容易性和自由性,能用不饱和聚酯树脂生产小型和大型结构。复合树脂不仅在海洋和汽车应用中是著名的,而且还用于诸如风力透平叶片之类的应用。

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○ 中国长春现场

汲取以往经验

Medalist®系列属于医学弹性体,其首个线缆专用料配方已获成功,并投入生产,符合严格的医学行业要求,而且,它还汲取了长期成功地用于非医学绝缘和护套应用的技术。与其它Medalist弹性体一样,Medalist MD458专用料采用高纯配方,通过了ISO 10993-5细胞毒性测试,符合RoHS和REACH。这种专用料在Teknor Apex位于St Albans, VT的专门生产医学专用料的装置中生产。由于公司的Ellexar® EL8431是一种热塑弹性体(TPE),已用于线缆工业二十多年,所以新型专用料还提供相同的电气性能、提升的服务温度等级、以及抗化学性和阳光照射性。

“Medalist MD458汲取了Teknor Apex的广泛经验,是一种精密的医用及牌号,

又具有成熟的Ellexar专用料性能,应用于电气和医学领域,”高级医学市场经理Nick Sandland说。“我们相信这种新型专用料是首个完全符合两种工业标准和实际性能要求的弹性体。”

Medalist MD458的肖氏硬度为70,抗火等级达HB (UL-94),最大连续操作温度等级达105°C (UL-1581)。它通过了6天60°C耐油以及720小时抗紫外线标准测试。这些性能使它们用于要求具有优异挠性、耐久性和抗化学性的医院和医疗环境。

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再融资和香港上市

Creat Resources Holdings Limited 已完成在 ASX-上市的 Galaxy Resources 的 IPO 预筹融资,它是其中的一个主要股东。尽管 Galaxy 已在澳大利亚悉尼上市,但它宣布即将在香港股市双重上市,这将从一个新股东 - Fengli Group (香港) Ltd 那里获得 9150 万澳元 (约合 570 万英镑) 的筹资。CRHL 去年以协议价 0.88 澳元/股获得 Galaxy 19.9% 股份,现已被稀释到 17.78%。

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○ 新IWMA协会主席 Colin Dawson

IWMA新协会主席

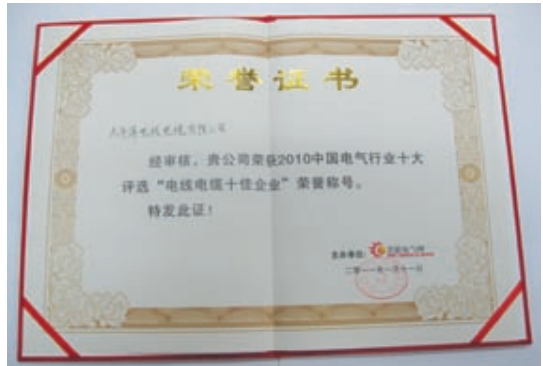
原协会副主席, Whitelegg Machinery Ltd 公司的 Colin Dawson 继任协会主席时,在担任了 IWMA 协会主席三年后, Stephen Wood 的任职期于二月份结束。董事会成员 Steve Rika 被选为新的协会副主席, Terry Robinson 连任荣誉司库。

Stephen Wood 在作为协会主席时因其杰出的工作而受到了称赞, IWMA 很高兴他还将继续留在董事会,届时他提出的建议对新的协会主席和协会副主席将具无可估量的价值。2011/2012 任职官员和董事会成员全部信息可以访问 IWMA 网站 www.iwma.org 进行了解。

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中国顶级公司之一

Asia Pacific Wire & Cable Corporation Limited 宣布其全资分公司 Pacific Wire and Cable Shenzhen 已被认可为中国顶级线缆公司之一,而且,它的另一家分公司还收到若干重大新合同。PEWSC 被誉为 '2010 十大中国线缆公司' 之一,排名第二,这项荣誉每年由 HC 颁布, HC 是中国的一家商家对商家电子商务提供商,中国电气设备工业协会,以及中国变压器工业协会。



有 1600 家公司参加评选, PEWSC 获此殊荣,代表了公司对优秀的承诺,也是行业、政府、学术界和客户对 PEWSC 的选择。另外,公司拥有 98.3% 股份的分公司 Sigma Cable Company (Pte) Ltd 最近也获得两份总价值约为 1410 万美元的合同。

第一个合同来自新加坡独资的输配电公司 SP PowerAssets Limited, 合同价值约为 940 万美元。Sigma Cable 承担了一项交钥匙项目,在今后 2 年中建成一个 66kV 输电网。这个项目是今年许多待签合同中的一份,因为新加坡政府 (LTA) 最终批准了捷运网络 (市中心线) 的道路改道计划。第二份合同将按照 ASEN 自由贸易区 (AFTA) 协议完成, Sigma Cable 将为拥有 1100 个住宅单元的文莱公共居

住区提供电气电缆,合同价值约 470 万美元。

这份合同将为 Sigma Cable 的战略合作伙伴 DHJ Electrical Engineering 分别在 2011 年 4 月、5 月和 6 月提供高质量、低电压电力电缆。DHJ Electrical Engineering 是文莱最著名的承包商之一。对 Sigma Cable 来说,文莱依然是一个海外利基市场,在未来几年中,文莱政府很可能为公共住房项目释放更多的合同。

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对材料的亲身感受

迪拜 2011 中东电气会展来访者亲身感受了全世界线缆制造商选择 Borouge 和 Borealis 先进的绝缘、半导体和护套材料的原因,这是因为它们是为全球线缆工业提供技术革新、创造价值的塑料解决方案的领先供应商。

Borouge 和 Borealis 将为 Prysmian 提供聚合物,以生产超高电压电力电缆,用于阿联酋阿布扎比的 Bahia 和 Saadiyat 电网。Prysmian 是全球能源和通讯电缆工业的一家领先公司。这是一个由阿布扎比 Transmission and Dispatch Company (TRANSCO) 开发的 400kV 超高电压输送交钥匙项目,是该城市重大基础设施开发的一部分。

TRANSCO 阿布扎比已经请 Prysmian Cables and Systems 执行此项目。项目预算为 2.5 亿欧元 (约合 11.5 亿阿联酋迪拉姆)。此项目的电缆长度达 230km,由 Prysmian 采用 Borouge 和 Borealis 的材料进行生产,以解决项目的关键需要:可靠、一致和长期性。项目将把采用 Borealis 的 Superclean™ 绝缘和 Supersmooth™ 半导体专用料生产的电缆铺设在地下,替代现有的高架线,大大降低对环境的影响。这些极其先进的塑料解决方案由 Borealis 在欧洲生产,由在阿联酋的 Borouge 分销。

新的电力线路是阿布扎比电力输送系统的最关键部分,它连接 Bahia 和 Saadiyat 电网站。这些电网站为一些著名的基础设施和房产开发区提供电力,包括 Yas 岛、新建的 F1 赛道、以及 Saadiyat 岛的阿布扎比文化区 (其中包括全球标志性的诸如卢浮宫和古根海姆之类的博物馆)。

Superclean 电缆材料采用先进的程序进行生产的,保证没有污染,其清洁度一直保持到交货点。结合 XLPE 电缆半导体层 Supersmooth 以及 Borstar® 护套牌号后,这些绝缘材料性能将进一步提升,保证拖入坑道时的抗磨擦性、低收缩性和海水中的耐环境应力开裂性。

“电缆耐久性对高电压电缆市场客户来说尤为重要,他们要求电缆在极端电力应力下具有一致的、很高的性能。” Borouge 线缆副总裁 Michael Bjorn 说。

“而且,我们很高兴我们在中东的聚烯烃装置的 XLPE 生产能力得到提升,使我们能满足全球客户对线缆产品的更高需求。”

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5000万欧元投资新建装置

Royal DSM是合资公司 - Jinling DSM Resins Co Ltd (JDR) - 将投资大约5000万欧元, 在中国南京新建一个复合树脂生产装置。

新的装置将替换现有装置, 成为世界上最大的复合树脂生产装置。DSM的投资比例是75%。

新的装置将实质性地加强合资公司在

中国复合树脂市场的份额。DSM持有JDR的75%股份, Sinopec Assets Management Co Ltd持有25%股份。

扩建是为了满足该区域所有应用领域对高端树脂的强劲需求。预计新的装置在2012年初投产。

DSM董事会董事Bico Gerardu负责性能材料业务, 他说: “投资完全符合我们

DSM的战略: 推动集约增长。接连几年来, 中国对复合树脂的需求一直大于生产能力。”

“随着这个大型投资, DSM准备在中国将复合树脂增长到一个新的水平, 它还将我们2015的目标作出贡献: 翻倍DSM 2010年在中国的销售额, 要超过30亿美元。”

DSM树脂总裁Dimitri de Vreeze说, “拥有这个新的装置后, 再结合我们在2010年10月宣布的在上海新建的复合树脂研发中心, 我们和我们的合资合作伙伴Sinopec对我们复合树脂业务在中国的未来充满信心。”

此项投资使DSM进一步推动其在中国可持续的、革新的解决方案的增长。通过降低能耗、排放和废物, 复合树脂能在整个价值链中创造环保的利益(与最终市场, 例如运输、风能、储罐、管道、改造、建筑和施工)。

DSM的许多复合树脂革新是环保+产品 - 产品和服务, 与竞争者的主流解决方案相比, 它考虑了整个生命周期, 提供环保的效益。

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DeRaps的20年经验

Cerro Wire聘请Todd DeRaps为全国关系经理, 以建立关系, 更好地理解Cerro在降低成本方面的价值, 开发新产品和服务, 增强和合作伙伴在项目业务中的成功率。

DeRaps基于亚利桑那(州)的Gilbert, 具有20多年电气、电信和网络产品成功的销售经验。在他加盟Cerro Wire前, 曾是Phoenix的Essco Wire & Cable公司销售和营业总监。

“Cerro Wire团队需要Todd DeRaps的背景和相关经验,” 业务开发总监Andy Paine说, “他业已证明的成功率对获得新项目是很重要的。”

Cerro Wire LLC - 美国
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上海申辰线缆设备有限公司

Shanghai Shenchen Wire & Cable Equipment Co., Ltd

— The Kingdom of Cold Welding Machines



SB-10



SB-10



SB-11



J2-B



J3-B

Shanghai Shenchen Wire & Cable Equipment Co., Ltd(SCH) is located in the city of Shanghai in China, we are a world wide leader in the manufacture of cold welding machinery. Our products are sold internationally including Germany, Brazil, Britain, Russia, Turkey, India, Indonesia, Malaysia, Thailand, Vietnam, Japan, Korea, Egypt and the USA. Our customer service and products are provided to the highest standards. Our products are approved by Safenet Limited and have conferred the CE certificate.

Our products can weld Copper(Cu)wire from Ø0.06 -Ø25mm, Aluminum (AL) wire from Ø0.08-Ø35mm; and flat strips maximum width 33 mm, minimum thickness 0.45mm.

Website: <http://www.sch.chinacable.com.cn>
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Vodafone tax case has potential for denting India's reputation as an attractive investment destination

In a corporate tax case involving Vodafone Group, now before the Supreme Court of India, the British mobile telecom giant is contesting an effort to compel it to pay some \$2.5 billion in capital gains taxes on its \$11 billion acquisition of an Indian mobile phone company in 2007. Indian officials claim that Vodafone ought to have deducted the money from the purchase price it paid to Hutchison Whampoa, of Hong Kong.

Vodafone's view is that no tax should be imposed because the transaction took place outside India; but that, if any tax is due, Hutchison is liable for it. Hutchison, which operates in 54 countries and has telecom interests in 14 of them, no longer does business in India. To the extent that the Vodafone case raises worries about Indian taxes, it possibly is having a dampening effect on foreign investment. In 2010, despite an economy that grew at a stunning rate of nearly 9 per cent, foreign direct investment in India fell 31 per cent, to \$24 billion, even as investors flocked to developing nations generally. In the two months to 24th February of this year, foreign investors took \$1.4 billion out of Indian stock markets, helping to drive the Sensex of the Bombay Stock Exchange down 16 per cent from a record closing high in early November 2010.

World Report 2010 ranked India as the ninth most attractive investment destination in the world, while the Bloomberg Global Poll conducted in September 2010 put India in third position, ahead of the United States. According to MindTEXT, an Indian centre for public policy research, India Inc had been "surging ahead audaciously" in the eyes of global investors alert to opportunities in terms of both expansion and profit. The danger that India's image could be damaged by the Vodafone case was eased, at least temporarily, on 8th February, when the Bombay High Court deferred a hearing on the company's dispute with the Indian tax office. The court set no new date for the hearing.

Elsewhere in telecom . . .

While mobile phones from Japan are famously innovative, Japanese-made handsets have made little headway overseas, accounting for just a sliver of a global mobile phone market dominated by such companies as Apple, of the US, Canada's Research In Motion, and Samsung (South Korean). Now, however, through adoption of Google's popular Android mobile operating system, the Japanese phone industry hopes to correct that imbalance.

According to the research company Gartner, global sales of Android phones reached 67.2 million units in 2010, well ahead of Apple iPhones (46 million units sold). Google offers Android free to manufacturers, and Japanese handset makers are rushing to introduce Android devices, each married with cutting-edge technology. Sharp, Sony Ericsson, NEC and Kyocera are among

the Japanese handset makers betting on Android as their way to international sales. Besides helping them reduce their software development costs, the globally recognised Android standard could also help the Japanese phone makers achieve economies of scale worldwide that could further enhance the bottom line. For its part, Google, while it earns no commission from any Android handsets sold, takes a substantial 30 per cent cut of the apps sold in the Android Store.

The number two South Korean mobile operator, KT, announced on 2nd March that it had inaugurated a nationwide high-speed WiMax service to help meet surging data demand from users of smartphones, tablets and other mobile devices. KT, which is also the top fixed-line carrier in South Korea, is hoping to meet a challenge from its larger rival SK Telecom, which like KT is offering subscribers the iPhone from Apple Inc, of the United States.

KT said it plans to offer a series of mobile devices compatible with the high-speed WiBro network which services 85 per cent of the country's population. The network includes Samsung Electronics' Galaxy Tab WiBro, which runs Google Inc's Android 2.2 operating system. WiBro (from Wireless Broadband) is a South Korean version of Mobile WiMax, a fourth-generation (4G) mobile broadband technology that competes with LTE (Long-Term Evolution).

In its first such deployment, Verizon Communications Inc has set up a standards-based, multi-vendor 100Gb Ethernet link between routers in Paris and Frankfurt. The 100Gb Ethernet standard was ratified at the end of May 2010, and routers and blades based on it had appeared in the interim. But Verizon on 2nd March said that the link on its European backbone network demonstrates the benefits of the standardisation. According to New York-based Verizon, the new link can carry up to 10 times the network traffic manageable on a standard connection. The technology is said to be suited to very high-bandwidth applications.

As reported by David Meyer in the UK edition of ZDNet (4th March), Finland's Nokia Siemens and Juniper Networks, of the US, also announced advances in the use of 100Gb Ethernet equipment. The two companies have successfully tested its interoperability between Nokia Siemens's hiT 7300 DWDM optical transport network kit and Juniper's T1600 core router.

French operator Iliad has signed a deal that will gain roaming privileges for its customers on France Telecom's Orange 3G mobile network. The arrangement will mean about \$1.4 billion in revenue over six years to France Telecom. The extension of an agreement on roaming over lower-speed 2G networks will allow Iliad to provide fast data service on devices, including the Apple iPhone, when it starts the mobile network in 2012.

There are three existing mobile operators in France: France Telecom, Vivendi's SFR, and Bouygues Telecom. The Iliad-France Telecom roaming deal, announced

4th March, will take effect when Iliad's Free Mobile brand serves 25 per cent of the French populace. Under its mobile license, granted in 2009, Iliad is committed to cover 90 per cent of France by 2018.

- ④ Britain has opened the bidding for an initial \$80 million for high-speed broadband projects as part of a plan to extend broadband access to rural areas. Local public authorities will be able to apply to Broadband Delivery UK (BDUK) for funding to improve broadband in their vicinities. The programme, announced on 4th March, will benefit up to 800,000 premises, Chancellor George Osborne said.

London has earmarked \$860 million over the next four years to bring high-speed broadband into so-called commercially un-economic areas. Speaking in Bristol, England, Mr Osborne said that investment in broadband infrastructure is vital to the overall growth agenda of the coalition government, and is a central strand of its current growth review.

- ④ Mexico's largest phone company *Teléfonos de México* said on 8th March that it plans to split into two companies, one of which will serve rural and low-income areas. Anthony Harrup, of Dow Jones Newswires, observed (9th March) that the decision by the company controlled by telecommunications magnate Carlos Slim aims, in part, to counter criticism of the firm's dominant position in fixed-line telephony in Mexico, where it owns some 80 per cent of the fixed lines.

In its press release Telmex said that the new entity, *Telmex Social*, will serve the 46 per cent of the country "in which there is no economic interest of any competitor" to invest and develop telecommunications — and in which Telmex has invested at low profit and sometimes at a loss. The company had yet to decide whether the division will take the form of a spin-off or of a new holding company. Assets, liabilities, and equity will be divided up accordingly, Telmex said.

- ④ The biggest fixed-line phone company in Brazil, *Tele Norte Leste Participações SA*, posted a profit in the last quarter of

2010 after adding mobile-phone clients and realising savings from its acquisition in 2008 of *Brasil Telecom Participações SA*. Oi, as the Rio de Janeiro-based company is known, said in a regulatory filing on 3rd March that its net income for the quarter was \$172 million, compared with a loss of \$360 million a year earlier.

According to the filing, "aggressive" offers enabled Oi to boost mobile phone subscribership 8.8 per cent from a year earlier, to 39.3 million customers. Despite the improvement in the company's fortunes, however, Oi's share of the Brazilian mobile market fell to 19.3 per cent in January from 20.6 per cent a year earlier, according to the telecommunications regulator Anatel. That was the lowest share among the four largest Brazilian telecoms, after *Vivo Participações SA*, *America Movil SAB's Claro*, and *TIM Participações SA*.

- ④ Thailand's *True Corp* intends to invest some \$438 million this year for the development of its mobile phone business, with \$296.8 million earmarked for upgrades. As reported by *Global Telecoms Business* (9th March), the telecom conglomerate's mobile business *True Move* is to spend \$164.9 million to enhance 3,000 base stations for 2G mobile services and to establish an additional 1,200 2G stations.

Bangkok-based *True* will also spend \$131.8 million on its 3G mobile system, and planned a trial roll-out of 3G services in March for its *True Move* clients. The company, which recently acquired the Thai assets of *Hutchison Wireless Multimedia Holdings*, has secured a deal with state-owned *CAT Telecom* to provide 3G mobile services.

- ④ In its recent annual security report, the communications technology giant *Cisco Systems* identified Voice over Internet Protocol (VoIP) abuse as a potential area for cybercrime growth. One of the most popular scams is "vishing," or telephone-based phishing. Vishers hack private branch exchange (PBX) systems, place calls on a subterfuge, and collect information thereupon used to victimise subscribers.

The report states that these incidents, often targeting small or mid-size businesses, have resulted in significant financial losses for some companies.

Senior editor Joan Goodchild of the security industry newsletter *CSO Tech Watch* noted (8th March) that, according to technology analysis firm *In-Stat* (Phoenix, Arizona), almost 80 per cent of businesses will use Voice over Internet Protocol by 2013.

Patrick Peterson, *Cisco's* chief security researcher, told Ms Goodchild that VoIP is already in most enterprises in some fashion. Whether fully deployed or still being tested, it is pervasive and therefore makes a target.

"Any time there is a free, anonymous resource, criminals flock to it," said Mr Peterson. "What we've seen is an extraordinary increase in the last few years in the number of cracking attempts, port scans, and attempts to log in with default admin passwords at various VoIP access points."

- ④ CEO *Leo Apotheker*, of *Hewlett-Packard*, who joined the company in November 2010, recently spoke candidly about HP's stumbles and its plans to recover itself following a turbulent management scandal and shake-up. The company, Mr Apotheker told journalists on 9th March, "has lost its soul."

Kate Solomon, of *techradar.com*, reported Mr Apotheker's belief that the solution for the Palo Alto, California-based information technology firm lies in listening to its workers. "The first thing I wanted to do when I joined HP was listen to the people," he said. "The rank and file usually know about all the shortcomings."

More substantive plans include the purchase of more companies with software expertise. The acquisition of the personal digital assistant (PDA) maker *Palm* in April 2010 gained for HP the *Palm-built* operating system, of which Mr Apotheker said he intends to make better use. Every PC shipped by the company next year will be able to run the *Palm-built* webOS as well as Windows.

沃达丰税案可能损害印度投资天堂的美誉

英国电信巨头沃达丰目前在印度高院因企业所得税原因涉诉，控方要求沃达丰就2007年斥资110亿美元购并一家印度移动通信企业支付大约25亿美元资本利得税。印度官员称沃达丰在向香港和黄支付款项时应从采购价格中扣除该笔款项。

沃达丰认为，由于交易发生在印度境外，故不应支付任何赋税，且即便需要，也是和黄的责任。和黄目前在54个国家中开展业务，在其中14个国家中经营有电信业务，但现已退出印度市场。

就沃达丰案引发的对印度税赋的担忧来说，可能已经给外国投资造成了负面影响。2010年虽然印度的经济以惊人的近9%的增长率发展且在总体环境上投资者蜂拥至发展中国家，印度的外国直接投资却下降了31%，降至240亿美元。今年到2月24日的两个月里，外国投资者从印度股市上撤资14亿美元，使孟买证券交易所的Sensex指数从2010年10月的创记录的高点下跌了16%。

2011年的世界报告把印度评为世界上第九大最具吸引力的投资目标国，而2010年9月的全球彭博全球民意测验则把印度排在第三位，高于美国。据印度公共政策研究中心MindTEXT的研究，印度用成长性和盈利性吸引了全球投资者的瞩目。

2月8日，因沃达丰案引发的印度形象危机暂时得到了缓和。孟买高等法院推迟了沃达丰与印度税务当局就该案的听证会。孟买高等法院还没有就听证会设定新的日期。

其他电信新闻...

① 虽然日本制造的手机以创新而闻名，但日本造手机在美国苹果、加拿大黑莓、韩国三星三分天下的全球手机市场上份额甚微。不过现在通过引入谷歌风靡的Android移动操作系统，日本手机行业有望扳回一些局面。

据研究机构Gartner提供的消息，Android手机的全球销售量2010年已经达到6,720万部，远远领先于苹果的iPhone(4,600万部)。谷歌向制造商免费提供Android，故日本厂商争先恐后地推出Android手机，且个个都配有先进的技术。夏普、索尼、NEC和京瓷都把国际销售的宝押在了Android上。

除了帮助它们降低软件开发成本，全球认可的Android标准还能帮助日本电话厂商实现世界规模的经济性，进一步增强其底线。就Google自身来说，虽然它未能从Android手机销售中获得任何佣金，但它在Android Store销售的应用中可获得30%的毛利。

② Verizon Communications Inc首次完成了巴黎和法兰克福间的多标准、多用户100Gb以太网链接。该100Gb以太网标准在2010年5月底进行了修订，基于修订后的标准的路由器和刀片服务器在此期间已经面世。Verizon 3月2日表示该位于其欧洲骨干网上的连接已经体现出标准化的优势。据位于纽约的Verizon表示，新连接可在标准连接上实现10倍的可管理流量。该技术据称适用于超大带宽应用。

据ZDNet(3月4日)英国版记者David Meyer的报道，芬兰的诺西和美国的Juniper网络也宣布在使用100Gb以太网设备方面取得进展。两公司已经成功地完成了诺西的hiT 7300 DWDM光传输网络设备和Juniper的T1600核心路由器的互操作性测试。

③ 法国运营商Iliad已经签署一项协议，为其在法国法电Orange 3G移动网络上的客户提供漫游特权。这项协议将为法电在今后6年内带来大约14亿美元的收入。协议还可延伸覆盖在较低速度的2G网络上的漫游，这样Iliad就可以在2012年启用移动网络时，在包括苹果iPhone在内的设备上提供高速数据服务。

法国目前有三大移动运营商：法电、Vivendi的SFR和Bouygues Telecom。3月4日公布的Iliad和法电达成的漫游协议将在Iliad的“Free Mobile”品牌覆盖25%的法国人口时生效。根据其2009年获得的移动许可证，Iliad致力于到2018年覆盖法国90%的人口。

④ 英国就农村地区宽带普及项目，已经开了一个初期的8,000万美元的高速宽带项目。地方行政当局可使用“宽带交付UK”专项资金(BDUK)为周边的宽带服务改建提供资金。英国首相卡梅伦表示，这项3月4日宣布的计划将惠及80万户。

伦敦已经为今后四年划拨了8.6亿美元的预算，用于把宽带服务推广到商业意义上无法覆盖的区域。卡梅伦在

英格兰的Bristol表示，宽带基础设施的投资对于联合政府的总体增长方案具有关键性的意义，也是当前增长评估的核心内容。

⑤ 墨西哥最大的电信公司Teléfonos de México 3月8日表示，其计划一分为二，让其中一个服务农村和低收入地区。道琼斯新闻记者Anthony Harrup(3月9日)报道称，由电信巨头Carlos Slim控制的这家公司的这项决定的目的，部分是为了平息对该公司垄断墨西哥固定电话市场的指责。该公司占据了墨西哥固话市场大约80%的份额。

在新闻发布中，Telmex表示新公司Telmex Social将为该国46%的地区服务，而在这些地区中“不存在任何经济利益让任何竞争对手”投资和开发电信设施。在这些地区Telmex将在低利润乃至亏损的情况下经营。该公司尚未决定新的子公司是采取拆分的形式还是采取设立新的控股公司的形式。Telmex称，资产、负债和所有者权益也将进行相应的分割。

⑥ 巴西最大的固话公司Tele Norte Leste Participações SA2010年4季度在移动电话客户增加和通过在2008年购并Brasil Telecom Participações SA. Oi实现成本节余后，实现了盈利。据3月3日的一份监管文件提供的消息，该位于里约热内卢的公司在2010年4季度实现了1.72亿美元的净收入，而2009年同期亏损了3.6亿美元。

据该文件提供的信息，“积极”的销售让Oi的移动用户数量较上年同期增加了8.8%，达到了3,930万。据电信监管当局Anatel表示，虽然公司的盈利状况有所改善，但Oi在巴西移动通信市场上的份额在今年一月份却从去年同期的20.6%掉到了19.3%。这是巴西电信行业四大公司中排名最低的，次于Vivo Participações SA、America Movil SAB's Claro和TIM Participações SA。

⑦ 泰国的True Corp准备今年投资4.38亿美元用于发展移动通信业务，其中2.968亿美元用于升级改造。据Global Telecoms Business(3月9日)的报告，该电信巨头的移动分部True Move准备投资1.649亿美元，用于升级改造3,000个2G移动服务基站和新增1,200个2G基站。

位于曼谷的True还将在3G移动系统上投资1.318亿美元，并计划在3月份向自己的True Move用户试推出3G业务。该公司近期购入了和黄无线多媒体控股的泰国资产，并与国有的CAT Telecom签订协议，准备提供3G移动业务。

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Trade

Facilitated by China, a rival to the Panama Canal may link the Atlantic and Pacific by rail across Colombia

China is in talks with Colombia to build an alternative to the Panama Canal that would connect the South American country's coasts by rail. As noted by the *Financial Times* (13th February), a secondary effect of the "dry canal" initiative would be to spur Washington to push for Congressional approval of a stalled US-Colombia free-trade accord. If there is no movement on the pact this year the Colombians will likely seek other partners, so pressure for ratification is building in the United States.

In an 11th February interview in Bogotá, President Juan Manuel Santos of Colombia told the FT's John Paul Rathbone and Naomi Mapstone that the proposal for the 137-mile rail link is "quite advanced" and that the feasibility studies made by the Chinese "all work out." The line would run from the Pacific to a new city near Cartagena where imported Chinese goods are to be assembled for re-export throughout the Americas. Colombia-sourced raw materials would make the return journey to China.

"I don't want to create exaggerated expectations, but it makes a lot of sense," Mr Santos told the reporters. "Asia is the new motor of the world economy."

Chinese and Colombian officials say talks are most advanced over an existing railway and expansion of the Pacific port of Buenaventura. That \$7.6bn project, funded by the Chinese Development Bank and operated by China Railway Group, would move up to 40 million metric tons of cargo a year from Colombia's economic heartland to the Pacific. Priority would be given to coal intended for China.

Colombia is the world's fifth-largest producer of coal, but most of it is exported via Atlantic ports even as demand is growing fastest across the Pacific.

The FT reporters observed that the mooted rail link is the latest example of China's increasingly pro-active lending to the developing world, as evidenced by Chinese banks having lent more to developing countries over the past two years than the World Bank. From documents seen by the FT, the project appears to be just one of a series of Chinese proposals that would boost transport links with Asia and improve Colombia's creaking infrastructure – a priority of Mr Santos's administration.

❖ Although Panama also has an 50-mile railway connecting both sides of the isthmus, currently the canal's main competition is the rail link from California to the US eastern seaboard – fast, but expensive. A question worth considering is whether the proposed rail line would be a more attractive expedient than the canal, which is only a third as long and undergoing a \$5.25 billion expansion to double its capacity.

Even if it not cheaper or faster, the proposed rail link would be a striking example of China's incursion into what the US once considered its backyard.



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And it would point up the strengthening Chinese connection with Latin America, whose exports to China rose to \$41.3 billion between 2000 and 2009. China is Colombia's second-largest trading partner after the US, with bilateral trade rising from \$10 million in 1980 to more than \$5 billion in 2010.

Steel

- ❖ American steel makers expected higher earnings in the first quarter after the soft steel market and seasonal slowdowns in production that hurt them during the fourth quarter of 2010. In a conference call reported by McClatchy-Tribune Information Services (20th February), the CEO and chairman of US Steel Corp (Pittsburgh) said that higher average realised prices, shipments, and production volumes should lead to better earnings results.

"Order rates for most customer groups and publicly reported spot market prices began to increase later in the fourth quarter," John Surma said. "We remain cautiously optimistic that global economic conditions will continue to improve in the first quarter."

In the week ended 12th February, the last for which Mr Surma would have had data, the American Iron and Steel Institute reported that domestic steel mills operated at 74.8% capacity, up from 73% capacity during the previous week.

- ❖ AK Steel (West Chester, Ohio), a producer of carbon, stainless, and electrical steels, said it has raised its prices for all carbon flat-rolled steel products by \$50 per ton.
- ❖ Showa Denko Carbon Inc, which produces graphite electrodes for electric arc furnace (EAF) steel making, intends to expand capacity and add 100 jobs at its plant in Ridgeville, South Carolina. As reported by Ashley Fletcher Frampton in the Charleston Business Journal (9th February), the company — a unit of the Tokyo-based chemical engineering group Showa Denka KK — plans an investment "in the hundreds of millions of dollars" to increase local production by 68 per cent.

Robert Whitten, president and CEO of Showa Denka Carbon, told the Journal that construction to alter the facility is expected to begin later this year and should be complete by the first half of 2013. Mr Whitten said that the company had given serious consideration to building a second plant in China. The decision to overhaul the American plant instead was influenced, he said, by the availability of raw materials, reliable and competitively priced energy, access to the Port of Charleston, and strong demand for the company's products from EAF steel makers ("minimills") in the United States.

- ❖ The US said on 11th February that it would pursue a World Trade Organization case that challenges Chinese antidumping duties on imports of American steel.

In 2009, China imposed extra duties of up to 64.8% on imports from the US of "grain-oriented flat-rolled electrical steel" used in the production of industrial machinery.

In its complaint to the WTO, the US charged that China "improperly used investigative procedures." The decision to press the claim suggests that the Obama administration is responding to the urging of domestic steel makers for a proactive trade policy with China.

The US trade deficit with China continues to grow. The most recent data from the Department of Commerce put it at \$252.4 billion for the first 11 months of 2010, compared with \$208.7 billion in the first 11 months of 2009.

The US has also filed WTO cases against China over limits on subsidies and exports of raw materials.

Notes and asides . . .

- ❖ Theft of scrap metal in the US is becoming more common and — to judge from a recent episode in the Pittsburgh metro area — increasingly brazen. On 1st March, the *Pittsburgh Tribune-Review* reported that Pennsylvania state police were investigating a weekend break-in at a Uniontown scrap yard. The burglars cut through a steel siding and took about 5,000 pounds of scrap copper, using the company's equipment to load it onto a company-owned pickup.

"We've had some thefts, but nothing like this before," an employee of the firm told the newspaper. "I'd like to catch the person before police get hold of him. They even used our tow motor to lift two four-by-four skids [of copper scrap] into the truck."

The value of the stolen truck and its load was estimated at \$21,350.

Automotive

Will a homely but worthy electric vehicle be the first Chinese-made car actually to materialise in US dealer showrooms?

In the view of Bradley Berman, the HybridCars.com editor who writes for a number of US publications, a compact sedan from the Chinese company BYD Autos could make its mark in the American market. The car maker, whose name derives from Build Your Dream, has set up preliminary North American operations in the Los Angeles suburb of Glendale. Mr Berman took the opportunity for a test drive in BYD's plug-in hybrid and delivered an early judgment: the F3DM will never turn heads on California freeways; even so, it may well be a contender.

Assuming that regulatory requirements are met and federal safety certifications obtained, the F3DM may be the frontrunner in the race to become the first car from a Chinese auto maker to arrive in US showrooms. According to BYD, that could happen by spring 2012.

The test car was a production model, visiting California on a research exemption. According to company officials, "close to 10,000" of the F3DM models have been sold in the home market. After Mr Berman's day with the "impressive though imperfect" import, he decided that Chinese cars — electric

and affordable – are imminent in the United States. (“BYD Is the First Ripple in a Potential Chinese Wave,” 18th February).

Doubters were invited to consider the example of the American investor Warren E Buffett, whose Berkshire Hathaway conglomerate invested \$230 million in BYD in 2008. The legendary billionaire was on hand in Shenzhen to attend the Chinese market debut of the F3DM in 2010. The latest BYD models will be displayed at a Berkshire Hathaway meeting in May.

Mr Berman found the build quality and materials of the F3DM to be adequate for utility-oriented Americans, even as he acknowledged the car’s minor flaws: wobbly storage compartment between the front seats, subpar floor mats, squishy handling. But to focus on these, and on the F3DM’s inconspicuous sheet metal and boring driving experience, would be, he cautioned, to miss the audacity of BYD’s strategy.

❖ “Think of the F3DM as a Chevrolet Volt [sticker price: \$40,280] with a Wal-Mart price tag,” he wrote. “The F3DM is a car with a large-capacity battery that delivered 31 miles of uninterrupted pure-electric driving for me – as well as a gasoline engine that gives it the ability to go an additional 300 miles.”

As for the car’s maker, BYD says the current F3DM will be sold in limited numbers to US corporate fleets.

A new and improved version – possibly with a new name, as well – is in the works for individual car buyers.

Of related interest . . .

❖ Even as the Chinese-made BYD strives for a place in the US market, auto makers industrywide are in a push for a share of the Chinese market. This eagerness on the part of, among others, General Motors – which already sells more cars in China than in the United States – is raising some concerns that the world’s car companies may be investing too heavily in China, creating an automotive bubble and setting themselves up for disappointment, at the least.

Bain & Co, the Boston-based global management consulting firm, has warned that factories in China could be capable of turning out 40 million cars a year by 2015, 35% more than the market can absorb, even with exports taken into account. The cost of unused plant capacity could hurt profits and reduce the advantages of producing in China, Bain said in a November report.

An even earlier reckoning is projected by a study published in January by the Netherlands-based auditing and accounting firm KPMG, which suggests that China will have too many automotive plants within five years. The industry, the KPMG analysts wrote, “may have to brace itself for some casualties.”



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Still, auto executives converging on Geneva for the annual auto show that opened there on 1st March gave a strong impression of being undeterred. With a people-to-cars ratio of 40 to 1 in China (compared with 2 to 1 in Germany), the prospect of factories running below capacity can seem a comfortably distant threat.

Strongly urged to 'go electric,' the American car buying public must first overcome a stubborn mind-set

In his second annual State of the Union Address, delivered on 26th January, President Barack Obama set a goal of a million electric vehicles on US roads by 2015. For that to happen, American car buyers must first conquer their skepticism about plug-in electric vehicles, or EVs. The virtuous cars, which require no gasoline and emit no pollution, are widely admired in theory, and by automotive writers and environmentalists in practice. But they have yet to commend themselves in meaningful numbers to John Q Public.

The Sierra Club, the oldest, largest, and most influential environmental organisation in the US, has set itself to remedy this situation. In the first week of March, the club launched a Go Electric campaign to promote the EV as a means of slashing pollution, reducing dependence on oil, creating jobs, and improving national security.

The campaign also seeks to correct misapprehensions about electric vehicles held by many Americans. The following, much abridged, is taken from the Sierra Club's teaching aid "Electric Vehicles: Myths vs Reality":

Myth 1: *Switching to an EV means only that the same amount of pollution comes from electricity generation rather than from the tailpipe.*

Reality: An EV generates 35 per cent to 60 per cent less carbon dioxide pollution than the CO₂ pollution from a conventional car with an internal combustion engine.

Myth 2: *Plug-in cars will lead to more coal and nuclear plants.*

Reality: Even if the majority of US drivers switch to electric, the existing electrical grid's off-peak/nighttime capacity for power generation is sufficient, requiring not one new power plant.

Myth 3: *Electric car batteries pose a recycling problem.*

Reality: Internal combustion engine vehicles use lead-acid batteries, and their recycle rate is about 98 per cent. The newer (eg lithium-ion) batteries for EVs contain even more valuable recyclable metals and will have a life well beyond that of the vehicle.

Myth 4: *My electricity bill will go way up.*

Reality: You'll spend more on electricity, but the savings on gas will more than compensate. If you drive an electric vehicle 12,000 miles a year, you'll pay about \$389 per year to charge your battery. But you'll save about \$1,200 in gasoline.

Myth 5: *Electric vehicles will fail to catch on, just as they always have.*

Reality: Manufacturers are serious this time. Given higher gas prices, stricter fuel economy standards for new vehicles,

and billions of public and corporate dollars being spent on electric vehicle research and infrastructure, EVs are here to stay.

Myth 6: *My battery will run out of juice.*

Reality: The majority of American car owners drive less than 35 miles each day. Most fully charged pure-electric vehicles can go 80 to 140 miles on a charge. Moreover, fast-charging stations are beginning to appear along highways and in public places that can re-charge a car to 80% of battery capacity in less than 30 minutes.

Myth 7: *EVs are much more expensive than traditional cars.*

Reality: While the sticker price is higher, there is a federal tax credit of up to \$7,500 for the purchase of an EV and a partial federal credit for the charging unit. Several states offer additional tax credits. The average EV driver will save more than \$800 a year in fuel. A cleaner, more streamlined system under the hood means an estimated savings of 46% in annual maintenance costs.

Myth 8: *Electric vehicles are available only in California.*

Reality: While EVs are not yet available for purchase in every state, they are quickly becoming available in many.

Myth 9: *Charging an EV on solar power is a futuristic dream.*

Reality: The technology is already available. Depending on where you live, you will need a 1.5kW-3kW photovoltaic (PV) system to generate the necessary power from about 150-300 square feet of committed roof space. Utility credits for daytime solar power can offset the cost of charging the car at night.

Telecom

A subsea cable gains Internet accessibility for Cubans. But how much freedom of access will follow?

An undersea fibre optic cable connecting the island nation of Cuba with Venezuela, in South America, was brought ashore on 9th February at Siboney, on the Cuban eastern coast. Expected to be operational in June or July, the cable is a project of Paris-based Alcatel-Lucent SA for the state telecommunications companies of Cuba and Venezuela. As reported by the Cuban state-run news agency Prensa Latina, Cuban officials have estimated its cost at \$70 million. ("Fiber Optic Communications Cable Arrives in Cuba," 10th February).

What the cable could mean for Cubans reliant on slow, expensive satellite links can hardly be overstated. A report last year by Cuba's National Statistics Office said only 2.9% of the population had used the Internet over a 12-month period — the lowest Internet penetration in the Western Hemisphere. And a recent report by Akamai Technologies Inc (Cambridge, Massachusetts) said Cuba has the second-slowest Internet speed in the world, besting only the tiny Mayotte chain of islands in the Indian Ocean.

When finished, the cable is expected to increase Internet speed 3,000-fold and be capable of handling about

80 million simultaneous phone calls: good news, Prensa Latina noted, "in a country where web pages open at the speed of molasses oozing out of a jar."

However, according to the report, to which Associated Press writer Paul Haven contributed, there is some question as to access. Shortly before the landing of the cable was celebrated, Cuba's Deputy Information Minister Jorge Luis Perdomo told reporters at a technology conference that, for now at least, Cubans would still be able to go online solely at their workplaces and schools. Mr Perdomo said the limitations did not derive from any political concerns, but are a function of dilapidated infrastructure and the time it will take to improve it.

❖ However, it would be idle to ignore the effect on official Cuba of the US commercial, economic and financial embargo, in place since 1962. According to Prensa Latina, in the week before its account was published, bloggers began circulating a video that appears to show an Interior Ministry attaché warning a group of government employees that the Internet could be employed to mount an attack on Cuba.

"We are not 'fighting' new technology," he says. "But we must understand it, use it in our interest, and know what our enemy means to do with it."

The figure in the video repeatedly brings up the case of an American subcontractor detained in Cuba since December 2009 on charges of possession of satellite phones and technology for the creation of unauthorised Internet networks. Cuban prosecutors are seeking a 20-year jail term.

Elsewhere in telecom . . .

❖ Huawei Technologies Co has, for some time, been engaged in a public-relations campaign in the US to counter what the Shenzhen-based phone-network equipment maker says are unsubstantiated allegations that it has close ties with the Chinese military and accepts financial support from the Chinese government. On 25th February, Huawei took the effort up a notch, with a roughly 2,000-word appeal to Washington to investigate the claims and satisfy itself that the Chinese company poses no threat to US national security. In an open letter posted on the company's website in China, deputy chairman Ken Hu provided details about Huawei's tax breaks, government research grants, and its arrangement with China Development Bank to provide loans to the company's clients. Such activities are, Mr Ken asserted, entirely consistent with global norms.

A week before the open letter was posted, Huawei gave up on its projected purchase of patents from 3Leaf Systems (Santa Clara, California), to comply with a recommendation by the Committee on Foreign Investment in the United States (CFIUS), the inter-agency panel that vets such transactions. Prior to 3Leaf, Huawei failed in bids to acquire companies including 3Com Corp (Marlborough, Massachusetts), in 2008; and, in 2010, 2Wire (San Jose, California) and the wireless business of Motorola (Schaumburg, Illinois).

Dorothy Fabian — Features Editor



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中国正在与哥伦比亚磋商, 准备兴建一条与巴拿马运河平行, 连接哥伦比亚东西两岸的铁路。据《金融时报》2月13日报道, 这条“干运河”的第二个效果将是促使美国政府敦促国会批准所谓的美哥自由贸易协定。如果该协定年内还没有取得进展, 哥伦比亚可能将寻求其他合作伙伴, 故寻求通过的压力在美国一方。

2月11日在波哥大接受《金融时报》记者John Paul Rathbone和Naomi Mapstone采访时, 哥伦比亚总统Juan Manuel Santos表示这条137英里长的铁道“非常先进”, 且中方进行的可行性研究“都可行”。这条铁道将把太平洋与Cartagena附近的一个新的城市连接起来。这个城市将从中国进口商品用于组装, 然后再转销给全美洲。哥伦比亚出产的原材料则将顺这个路径出口到中国。Santos总统向两位记者表示: “我并非想要夸大其辞, 但这条铁路线确实很有意义。亚洲现在是世界经济的新引擎。”

中哥官员表示双方的磋商进展最大的部分是关于现有的铁道线和扩建太平洋一侧的口岸Buenaventura。这项投资76亿美元的项目由中国国家开发银行融资, 由中国铁道集团操作, 建成后能够每年将400万吨的货物从哥伦比亚的经济中心输送到太平洋一侧。重点运输的是中国亟需的煤炭。哥伦比亚是世界第五大煤炭生产国, 但主要是通过大西洋口岸出口, 虽然跨太平洋的需求增长最为迅速。

《金融时报》记者认为这条商议中的铁道线是中国日渐主动向发展中国家提供融资的最新示范, 因为中国银行在过去两年中向发展中国家提供的贷款金额超过了世界银行。根据《金融时报》记者看到的文件, 该项目只是中国为建立到亚洲的交通路线和改善哥伦比亚脆弱的基础设施而提供的一系列建议中的一项——改进基础设施正是Santos政府的要务。

钢铁

❖ 美国钢铁制造商预计, 在2010年四季度钢铁市场疲软和季节性生产下降造成的不良影响之后, 1季度的收入会有增长。据McClatchy-Tribune Information Services报告的在2月20日召开的电话会议, 美国钢铁集团(匹兹堡)的首席执行官和董事长表示平均价格的上涨、发货量的增加以及产量的提升将带来更高的收入。

John Surma表示: “大多数客户群体的订单率和公开报道的现货市场价格在4季度后期开始增长。我们对全球经济状况保持谨慎乐观态度, 认为其在1季度将继续改善。”

在截止2月12日的这个星期, 即Surma获得数据的最后一个星期, 美国钢铁协会报告称国内钢铁厂将以74.8%的负荷运行, 高于头一个星期73%的负荷。

- ❖ AK Steel(俄亥俄州West Chester)是一家生产碳钢、不锈钢和电炉钢的企业。该企业表示其所有碳钢平轧产品的价格每吨均调高了50美金。
- ❖ Showa Denko Carbon Inc是一家为电弧炉炼钢(EAF)生产石墨电极的公司, 准备扩建产能, 在其位于南加州Ridgeville的工厂增加100个工作岗位。据《查尔斯顿商业期刊》记者Ashley Fletcher Frampton(2月9日)的报道, 目前隶属东京化工集团Showa Denka KK的该公司——计划投资“数百万美元”, 以提升当地产能68%。

Showa Denka Carbon总裁兼首席执行官Robert Whitten在接受期刊采访时表示改建工程将于本年晚些时候启动, 并将于2013年上半年完成。Whitten还表示公司正在认真考虑在中国兴建第二家工厂。他表示, 扩建美国工厂的决策主要是出于原材料的供应、可靠且价格具有竞争力的能源供应、通往查尔斯顿港的便利和美国电弧炉炼钢企业(“小型钢厂”)对公司产品的强劲需求。

汽车行业

中国生产的家用经济适用型轿车是否会成为第一款进入美国车商展厅的中国造轿车?

据曾在多家美国媒体上发表报道的HybridCars.com编辑Bradley Berman认为, 来自中国公司比亚迪的紧凑型轿车将率先打入美国市场。比亚迪的名字来自英文“实现您的梦想”的缩写, 已经在洛杉矶郊区的Glendale建立了北美业务部。Berman试驾了比亚迪的直充混合动力轿车, 并做出了初步判断: F3DM在加州的高速公路上跑不起来, 但即便如此, 它还是有力的竞争者。假定监管要求得到满足, 联邦安全认证全部通过, F3DM将成为中国车商成功打入美国车市的第一款车型。据比亚迪的安排, 正式进入美国车市的时间定在2012年春季。

参加测试的轿车是一辆生产型轿车, 因研究原因被运到加州。据比亚迪管理人员表示, “大约有1万辆”F3DM型轿车已经在国内市场售出。在Berman试驾这辆“令人印象深刻但还不够完美”的车那天后, 他认为中国造轿车, 包括电动和廉价型, 将很快出现在美国市场上。(2月18日《比亚迪掀起中国浪潮的第一个波澜》)对此存疑的人不妨考虑一下美国投资大师沃伦巴菲特的榜样。沃伦巴菲特的Berkshire Hathaway集团2008年购买了比亚迪2.3亿美元的股票。巴菲特大师还曾于2010年到深圳参加F3DM在中国市场的首发式。最新款的比亚迪轿车将在Berkshire Hathaway于5月举办的展会上亮相。

Berman认为F3DM的建造质量和用料对注重实用的美国人来说是足够的, 但也直言不讳地指出了该车的一些小缺陷: 前座储物隔间固定不好, 地毯差强人意、操作不便。他告诫说, 由于这些缺陷, 加上F3DM的车身用材问题和缺乏驾驶乐趣性, 可能会导致比亚迪的勃勃雄心落空。

❖ 他在报道中称: “可以把F3DM当作贴着沃尔玛价格标签的雪佛莱Volt[标价: 40,280美元]。F3DM采用大容量电池, 可以在不间断的情况下电力驱动31英里, 换用汽油机后, 可再续航300英里。”

轿车制造商比亚迪表示, 目前F3DM已经有部分销售给美国的企业用户。给个人用户提供的将是一款新的改进型, 可能名称也将使用新的。

转向电动车辆, 美国轿车买家必须先克服固有的偏见

在1月26日发表的第二篇年度国情咨文中, 总统奥巴马提出了2015年美国电动车数量达百万辆的目标。为此, 美国轿车买家必须首先克服对直充式电动车辆的疑虑。这种性能优秀的轿车无需燃烧汽油, 也没有任何污染物排放, 故在理论上十分理想, 在实践中也得到了汽车专栏作者和环保主义者的大力推崇。但对美国公众而言, 它们还没有形成有意义的市场份额。Sierra俱乐部是美国历史最为悠久、规模最大, 也是最具有影响力的环境组织。该俱乐部已经决定推动这个目标的实现。3月份的第一个星期, 该俱乐部发起了“电气化”运动, 把推广电动车辆作为减少污染、降低对石油的依赖、创造就业和提升国家安全的途径。

这次运动的另一个目的是纠正许多美国人对电动车辆的错误认识。下面的概要摘录自Sierra Club的教辅课程：“电动车辆：谜和现实：”

谜1: 转向使用电动车辆虽然没有从排气管排出废气, 但把相同的污染留给了发电厂。

现实: 电动车辆的二氧化碳排放量比使用内燃机的常规轿车的二氧化碳排放量低35%到60%。

谜2: 直充式轿车会导致火电厂和核电厂的数量。

现实: 即便大多数美国汽车用户转向电动车辆, 现有电网的用电高峰外的时段/夜间时段的供电能力就足够了, 无需新增电厂。

谜3: 电动轿车的电池会带来回收利用问题。

现实: 内燃机车辆使用铅酸电池, 回收率可达大约98%。电动车辆使用的较新型的(比如锂离子)电池含有更多有价值的可回收金属, 寿命远远长于车辆本身。

谜4: 我的电费会很高。

现实: 电费会增加, 但节省的油费足以补偿。如果驾驶电动车辆每年行驶12,000英里, 每年支付的电池充电费是389美元, 比用汽油节省大约1,200美元。

谜5: 电动车辆不会成为主流, 就像过去一样。

现实: 生产厂家这次是认真的。鉴于汽油价格高企, 新车辆更为严苛的经济标准以及在电动车辆研究和基础设施上投入的数十亿美元的公共资金和企业资金, 电动车辆必将流行开来。

谜6: 我的电池会用完。

现实: 大多数美国汽车用户每天的行驶里程不超过35英里。大多数满充的纯电动车一次充电后可行驶80到140英里。另外, 快速充电站也正在开始出现在高速公路旁和公共场合, 可在30分钟内一次将轿车电池充至80%的容量。

谜7: 电动车辆比传统车辆贵很多。

现实: 虽然标价较高, 但联邦为购置每辆电动车提供7,500美元的退税, 对充电器提供部分联邦退税。部分州还提供额外的退税政策。电动车每年可省油费800美元以上。更环保紧凑的引擎可节省46%的年度维护费用。

谜8: 电动车辆仅在加州提供。

现实: 虽然还不能在每个州购买电动车辆, 它们很快会出现在许多州。

谜9: 用太阳能为电动车辆充电只是一个未来的梦想。

现实: 该项技术已经面世。根据用户居住的地方, 只需要一套1.5千瓦到3千瓦的光伏(PV)系统, 占用150-300平方英尺的屋顶面积, 就可以发出需要的电力。电力公司为日间太阳能发电提供的补贴可以抵消夜间轿车充电的费用。

电信新闻

海底电缆为古巴人带来使用互联网的机遇, 但使用互联网的自由仍然受限

一条把岛国古巴与南美的委内瑞拉连接起来的海底光缆2月9日在古巴东海岸的Siboney登陆。该光缆是位于巴黎的阿尔卡特朗讯为古巴和委内瑞拉的国家电信公司敷设的, 预计在6月或者7月投入使用。据古巴国立新闻社Prensa Latina报道, 古巴官员估计其成本在7,000万美元。(2月10日《光纤通信线缆登陆古巴》)

这条光缆对长期依赖速度慢、价格贵的卫星链路的古巴人的意义真实一言难尽。去年古巴国家统计局公布的一个报告称, 过去一年只有2.9%的人口用上了互联网, 是西半球比例最低的。近期由

Akamai Technologies Inc (麻省剑桥) 提供的一篇报告称古巴的互联网速度世界倒数第二, 仅比印度洋中间的小岛国Mayotte来得快。

建成后, 该光缆将提升互联网速度达3,000倍, 并且能够处理大约8,000万个同时进行的电话呼叫。Prensa Latina指出, 这真是好消息, 特别是对一个“打开网页的速度有如糖浆渗出罐子的速度”的国家来说。

不过据美联社记者Paul Haven参与撰写的报告称, 在接入方面还存在问题。就在庆祝光缆登录前不久, 古巴的信息部副部长Jorge Luis Perdomo在一个技术会议上告知新闻记者, 从现在开始, 古巴人就只能在工作场合和学校里上网了。Perdomo表示限制的理由并非是出于政治原因, 而是因为基础设施落后和改建基础设施需要化很长时间。

其他电信新闻...

❖ 华为技术有限公司最近一直在美国进行公关活动, 以反驳华为声称的无依据地指控华为与中国军方关系密切和接受中国政府的资金支持。2月25日, 华为的公关活动达到了一个高潮, 向美国政府呈交了大约2,000字的申诉, 要求美国政府调查这些不实之词, 确认华为对美国的国家安全不构成威胁。

在公司中国网站上的一篇公开信中, 副董事长Ken Hu详细说明了华为的税收减免、政府研究资助和与其与中国国家开发银行合作为客户提供贷款的安排。Ken表示, 这些行为与国际惯例一致。就在华为发表公开信前一个星期, 华为放弃购买3Leaf Systems (加州圣克拉拉) 的专利的行动, 以遵从美国外国投资委员会的建议。这个半政府的机构否决了这项交易。在3Leaf之前, 华为还陆续在2008年购并3Com Corp (麻省Marlborough)、2010年2Wire (加州圣何塞) 和摩托罗拉无线业务部 (伊利诺伊州绍姆堡) 失败。

经济新闻

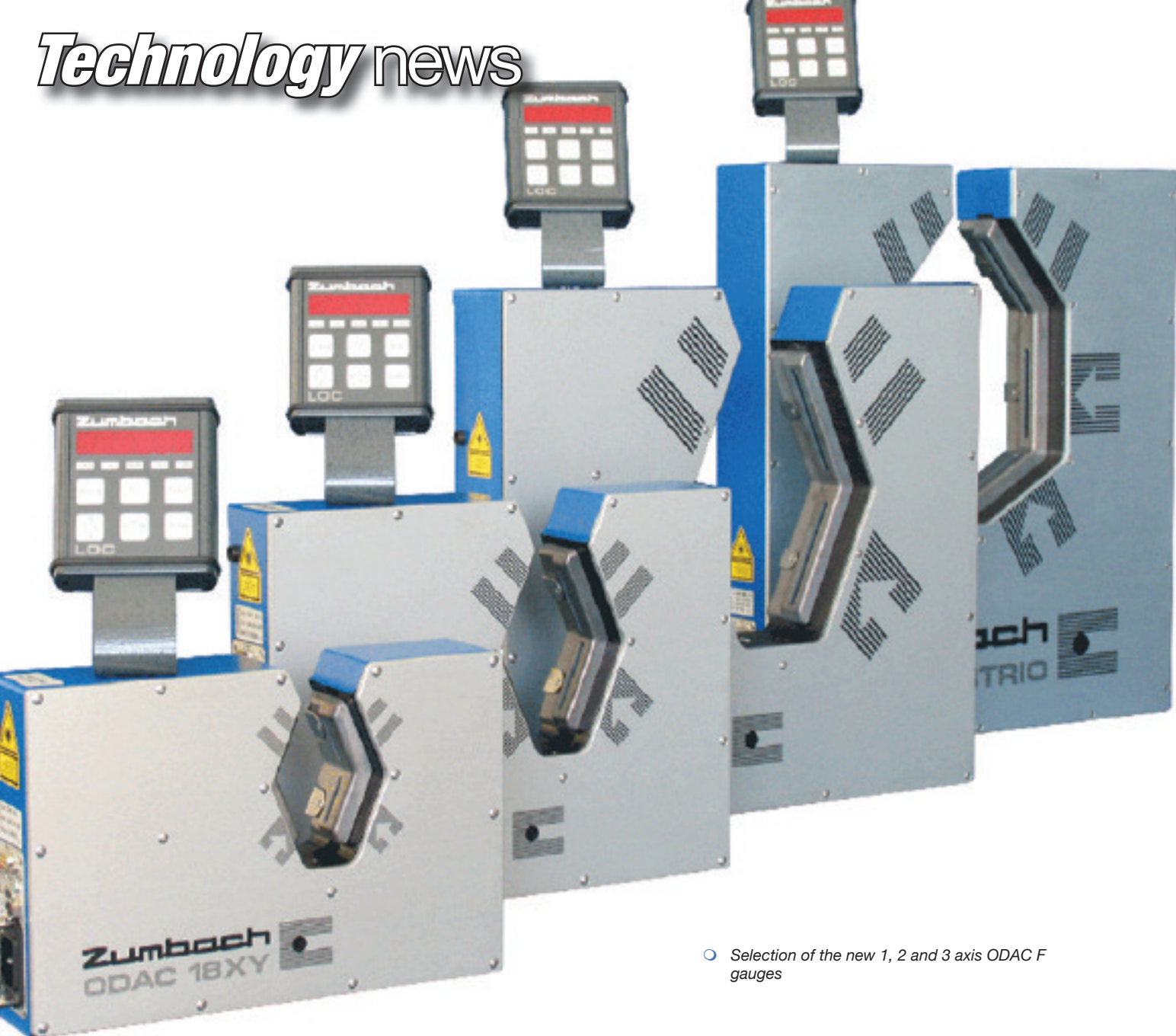
虽然没有什么底气, 美国小企业却正在恢复信心

据国家独立商业协会(NFIB)的调研结果, 随着雇员数量和销售预期的增长, 美国小企业的信心在2月份上升到了三年来的最高点。这家非盈利性游说机构总部设在华盛顿, 在50个州府设有办事处, 它反映的是小型业主和独立业主的共识。NFIB在3月初表示其乐观指数较上月有所上升, 增加到94.5, 是2007年12月衰退开始以来的最高点。与此相比较, 美国自2001年11月开始的上一轮经济扩展周期的平均分为100.7。同时, 收入预期仍为负值, 认为适合扩展的企业数量有所减少。NFIB的首席经济学家William Dunkelberg在发言中表示: “对一些更加小型的企业主来说, 未来会更加光明。”不过他表示, 2月份的指标不足以“反映经济的强劲反弹”。

据彭博新闻记者Bob Willis报道(3月8日), 就业指标会更加乐观一点。就业情况2月份有所上升, 达到了2008年9月以来的第二高, 这说明就业有望恢复。准备增加人手的小企业的数量增加了2个百分点, 达到了5个百分点。根据调研, 有15%的企业表示它们在填补职位空缺方面遇到了困难, 这是自2008年9月以来的最高水平。

根据Intuit Inc (加州Mountain View) 的小企业部总经理(负责向中小企业销售软件解决方案)的看法, 小企业领域的雇佣数量正在缓慢增长。在3月2日参加有Willis出席的电话会议时, Kiran Patel表示: “目前的情况比18个月前有了明显的改观。不过距离我们进入衰退前的日子, 还有很远的路。”

专栏编辑: Dorothy Fabian



○ Selection of the new 1, 2 and 3 axis ODAC F gauges

Diameter gauges with integrated fault detection

Zumbach Electronic has introduced the new ODAC® F line of laser gauges. The new series offers high-precision, non-contact laser diameter measurement with high scan rates and an integrated fault detection function.

Combined with the powerful Zumbach USYS processors they can process up to 4,500 measurements per second from 3-axis scanners.

A special laser beam geometry enables

the detection and process of very small defaults or diameter variations.

Up to 333 data packets per second can be processed forward to a higher level system.

Data packets can include, amongst others, minimum and maximum diameter values and ovality. A complete line of gauges is available for dimensions between 0.25 and 550mm (0.01" to 21.65").

Advantages include double or even higher scan rates than before, ie more measurements per time unit; maximum fault detection (lumps/neckdowns) at increased line speeds; and FFT/SRL analysis with higher bandwidths.

Zumbach Electronic AG – Switzerland

Fax: +41 32 356 0430

Email: sales@zumbach.ch

Website: www.zumbach.com

Keeping faults in check

Beta LaserMike offers its Lump and Neckdown (LN) detector to wire and cable manufacturers wanting to reliably and accurately identify product faults and surface defects during production.

The LN detector uses infrared light technology and advanced circuitry to instantly detect changes, such as lumps or neckdowns, in the wire or cable diameter.

The signal processing and intelligence is built into the gauge head for a complete, stand-alone detection solution. Outputs can be taken straight from the LN Detector to trigger alarms or to mark devices when faults are detected.

The detector is easy to install, set up and operate. It can be used in extrusion, drawing, jacketing and other wire and cable production applications for consistent detection of short-term faults in products.

The detector is available in a range of models to meet a wide scope of product detection requirements. Depending on the model, the system can detect faults in products with outer diameters ranging from 0.04 to 40mm (0.0015" to 1.60") up to the fastest line speeds.

Long-term advantages to manufacturers include increased productivity, reduced production costs and higher quality products.

Beta LaserMike – USA

Fax: +1 937 233 7284

Email: sales@betalasermike.com

Website: www.betalasermike.com



○ The LN detector from Beta LaserMike

Better quality and reduced costs

By incorporating Plasticolor dosing units and/or mixing station systems into the production, not only the quality of the finished product is improved but also substantial cost reduction in less material consumption and lower labour cost will be realised.

It has been noted that the usage of dosing units and/or mixing station systems results in a better product quality.

The mixture of materials is more homogeneous and also the appearance (colouration) of the products is more regular.

The effect of a homogeneous mixture will allow the operator to cut the percentages of the additives to the lowest level where additives are still active and still get very good product quality.

It is also not necessary any more to have pre-mixed materials ready for the production and also the leftovers after production are eliminated. This drastically reduces the cost of inventory.

Plasticolor mixing stations are used especially in high quality productions of cross-linked insulations or in productions with foamed layers.

The exact dosing of each component and the perfect mixture of the materials helps the screw of the extruder to homogenise the melt and this will result in a better product quality and substantial cost reduction in less material consumption for the expensive materials like catalyst or foaming agent.



○ The Plasticolor mixing station

Woywod Kunststoffmaschinen GmbH & Co Vertriebs-KG – Germany

Fax: +49 898 541 336

Email: info@plasticolor.de

Website: www.plasticolor.de

New straightener system for cut offs

A new wire cut-to-length straightener system from Force Control Industries is designed for high cycle wire cut off applications.

The package includes a 2 plane wire straightener, tool steel hardened feed wheels, feed gears, separately actuated cut cut off, wire guides, a Posidyne oil shear clutch brake with pneumatic control valve, accumulator, pressure regulators, and gauges, motor and gear reducer all mounted on a steel base plate.

The system is capable of running 14 gauge wire at a velocity of 91.6"/sec with +/- 0.13" accuracy, at 96cpm (24" length, 50% dwell). Packages are also available for larger size wire, making this system ideal for cut to length straightened wire for wire racks, cages, crates, and even concrete reinforcing wire.

The heart of the system is the oil shear Posidyne clutch brake, which is capable of very high cycle rates, long maintenance-free life, and consistent accuracy.

Oil shear technology is the reason that Force Control brakes and clutch-brakes are virtually maintenance-free – without the need for adjustment or disc replacement – and last up to 10 times longer than standard dry friction brakes.

Oil shear technology is the function of a boundary layer of transmission fluid in shear between the friction disc and drive plate. As the parts come together the fluid under shear will transmit torque between the two parts as well as absorb heat.

This eliminates direct contact of the friction discs and drive plates during high speed slip. Heat from the friction surface is dissipated as the fluid circulates to the housing.

When combined with the closed loop position control, the Force Control wire feed system offers unparalleled consistency and accuracy.

CLPC (closed loop positioning control) assures consistent cut length accuracy and simple length change over. The CLPC continually adjusts to maintain consistent cut length from start up to end of the day. The control also allows simple change of cut length for various products, and has outputs to actuate the cut off knife.

The CLPC constantly monitors the stopping position and makes adjustments if any "stopped position" errors occur. Compensating for each index ensures precise accuracy. This self-compensating system controls for changes in speed, dynamic load, air pressure, friction in bearings, slides and more.

A watchdog timer will stop index if not made within the set time frame – this is

adjustable from 100 milliseconds to 1 minute to accommodate individual requirements. The control will stop the drive when it senses the system comes to an unexpected stop – thus preventing damage to the clutch or other system components. The interrupt driven microcontroller operates without scan time problems.

Easy installation and operation is achieved through menu-driven set-up and on-the-fly electronic fine-tuning of the start/stop position. Simple and straightforward, the CLPC operates with minimal programming – there are no complex velocity profiles to develop. Designed and developed as a complete system, the CLPC is supplied with all required components – there is no need for external power supplies or accessories.

Force Control Industries – USA
Fax: +1 513 868 2105
Email: sales@forcecontrol.com
Website: www.forcecontrol.com



○ The new straightener system from Force Control

The essential wire in 'wireless' applications

Wireless communication seems to be the trend of the Internet network. Despite Wi-Fi adapters/cards and USB wireless dongles replacing and minifying the wireless networking device, there are still some practical problems like signal receiving/transmitting range and ability on wireless networking PCB device without the auxiliary of an external antenna.

Coaxial cable was originally used for

networking but is applied in fields that require high conductivity and low attenuation of signal such as antenna cable, speaker audio cable and CATV cable.

In WLAN applications, you can find the presence of coaxial cable as the linkage of antenna. It may also be found embedded within AP routers, laptops, cell phones and other electronics. Weiyang Co Ltd is dedicated to coaxial

cable manufacturing, focusing on flexible RF coaxial cable like RG 174/178/179/316, mini FEP Teflon coax 0.81/1.13/1.32/1.37/1.48mm, and low loss WY 100/195/200. Stable quality, flexible quantity, and short L/T are the most competitive features.

Weiyang Co Ltd – Taiwan
Fax: +886 2 22693325
Email: sales@weiyang.com.tw
Website: www.weiyang.com.tw



○ The SwiftMark – increasing labelling productivity by up to 300 per cent

New standards in cable labelling

Designed specifically for the wire and cable industry, the SwiftMark automatic label applicator sets a new standard in labelling efficiency.

The SwiftMark applicator prints self-laminating vinyl labels and applies them to various sizes of wire and cable, increasing labelling productivity by up to 300 per cent.

With a cycle time of just four seconds, the SwiftMark can print and apply labels in a fraction of the time required to manually print and apply labels, which increases productivity and reduces labelling errors, while providing the highest printing and application quality.

Labels can be quickly and easily designed in the accompanying Tagprint Pro software, and label files can be downloaded and stored on the SwiftMark via USB, parallel port, ethernet or serial connection.

Simply select the file and label quantity using the user-friendly touch screen, and labelling is as simple as placing the cable in the machine and pressing a button or foot pedal.

The SwiftMark can also be integrated with wire cutting and stripping equipment for highly automated labelling.

HellermannTyton – USA Fax: +1 800 848 9866
Email: info@hellermann.tyton.com
Website: www.hellermann.tyton.com



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Reliable quality control of automotive, communication and installation cables

The Sikora Centerview 8000 is the successor of the successful Centerview 2000. Equipped with unique functions such as the 8-point-eccentricity and ovality measurement, a patent-pending cloud diagram and numerous improvements of precision and performance, it meets the requirements of the cable industry.

Centerview 8000 is a non-contact gauge head providing continuous online measurement.

The 8-point eccentricity, 4-axis diameter and 8-point ovality measurements ensure highest accuracy. The system is perfectly suitable for the production of coaxial cables, LAN cables as well as automotive and installation cables.

Sikora offers two versions, each specifically designed for users' product: Centerview 8010 for product diameters from 0.1 to 10 mm and Centerview 8025 for product diameters from 0.5 to 25mm.

Centerview 8000 combines an optical and inductive measuring technique. With the inductive measuring circle the position of the conductor is determined and the gauge head automatically centred to the cable position.

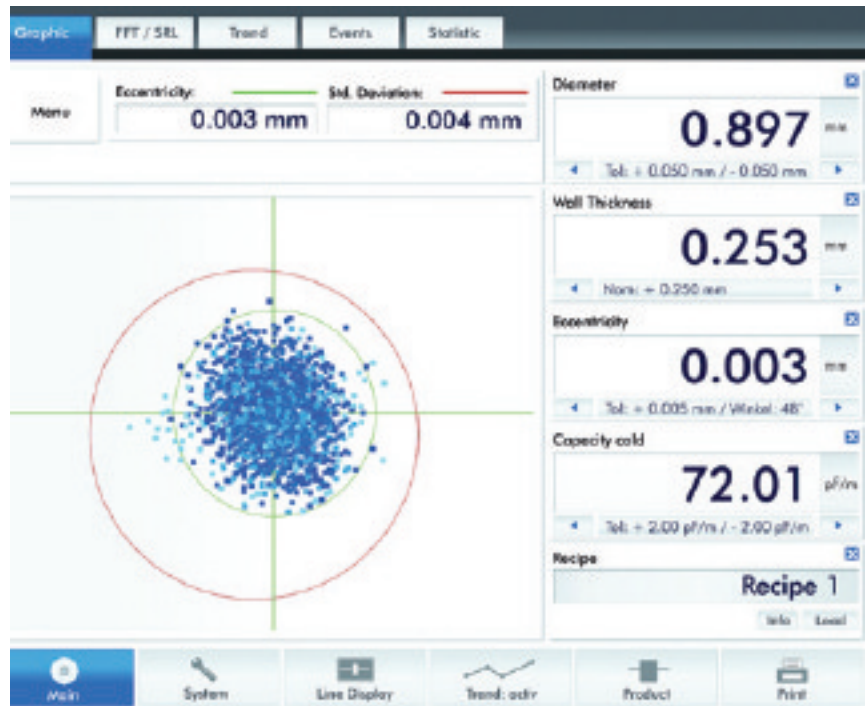


○ Standard representation of eccentricity at the Ecocontrol 2000

Guide rollers and manual configuration are unnecessary.

This unique characteristic makes for easier set-up, handling and operation of the unit. The reliability and undemanding usage are appreciated by every operator.

The optical part of the system is based on the principle of the diffraction analysis combined with



○ The cloud diagram shows the single values of the distribution of the eccentricity (circle type distribution)

pulse-driven laser diodes, whose light beam projects a picture of the cable on CCD-line sensors in each of the four measuring axis. Within microseconds eccentricity, diameter and ovality are calculated from the image of the product.

In order to achieve precise single values in the sub micrometer range the design of the gauge head does not include rotating mirrors or optical lenses. The lack of moving parts in the system ensures freedom from maintenance and guarantees reliability at all line speeds.

Calibration is done only once and is unnecessary thereafter. Accurate measuring values, high quality production optimisation combined with substantial cost reductions are the principal benefits.

The cloud diagram is an additional way of presenting the measured values of the ongoing measurement at the Ecocontrol.

The cloud diagram provides information on the distribution of short term variation of eccentricity in graphical form. Each dot corresponds to a single

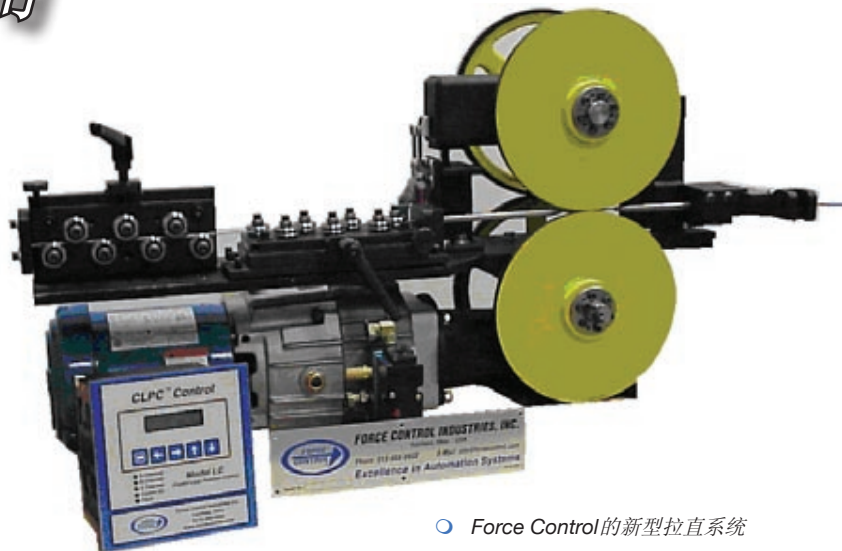
measured value of eccentricity in relation to the amount and angle. The extension of the cloud diagram is an indicator of the standard deviation of eccentricity.

A circle type distribution of the single values of the eccentricity indicates their fluctuation range. This display is helpful to optimise the process in terms of minimising standard deviation.

A ring type cloud diagram indicates that there is a permanently rotating eccentricity value. This could be a result of the conductor rotating/oscillating before it enters the extruder crosshead.

The standard way of representing eccentricity using a cross-section of the cable is very helpful for the operator when centring the crosshead. But only the display of single values in the form of a cloud diagram gives the operator the necessary information to take suitable measures to minimise eccentricity.

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Force Control的新型拉直系统

新型切割拉直系统

Force Control Industries设计出一种新型的精确切割拉直系统，用于高速圆形线材切割应用。装置包括2个线材平拉机、工具钢硬化进料轮、进料齿轮、独立执行的切割机、线材导轮、一个配备气动控制阀的Posidyne油剪切片制动盘、蓄能机、压力调节阀、表具、马达和齿轮减速箱，它们都安装在钢制底板上。

系统能处理14规线材，速度可达到91.6英寸/秒，精度达到 $\pm 13\mu$ ，96个累计数（长度24”，停留50%）。装置还能处理更大尺寸的线材，成为理想的精确切割拉直系统，用于线材、线笼、线框、甚至是混凝土加强线。

系统的核心是Posidyne油剪切片制动盘，能处理高转速，无维护寿命长，具有一致的精度。油剪切技术是Force Control制动盘和剪切制动盘实际上无需维护的原因 - 无需调节或更换盘片 - 寿命可达标准干摩擦制动片的10倍。油

剪切技术基于摩擦片和驱动片之间输送流体边界层原理。当部件合在一起时，出于剪切中的流体将传递两个部件之间的力矩并吸收热量。

这消除了高速滑动期间摩擦片和驱动片之间的直接接触。流体循环到外壳，从而带走了摩擦表面的热量。结合封闭回路定位控制后，Force Control线材进料系统提供了无与伦比的一致性和精度。

CLPC（封闭回路定位控制）保证一致的切割长度精度和简单的长度切换。从开始到结束，CLPC进行连续的调节，以维护一致的切割长度。控制还允许方便地变更各种产品的切割长度，提供输出，使切割刀动作。CLPC恒定地检测停止位置，并在发生任何“停止位置”错误时进行调节。对每个指标进行补偿，从而保证了精密的准确度。这种自身补偿系统控制各种变化：速度、动态负载、空气压力、轴承摩擦、滑动等等。

监视计时器将停止指标，如果不在设定的时间范围内完成的话 - 这是可调节的，从100毫秒到1分钟，以满足各种要求。

控制将停止驱动，当它察觉到系统进入一个意外停止时 - 从而防止剪切片或其它系统部件受损。被中断的被驱动微控制器在操作时没有扫描时间问题。

通过菜单设定和运行中电子细调开车/停车位置，就能容易地完成安装和操作。CLPC的操作简单、直接，所需的编程要求也是最低的 - 无需确定复杂的速率分布。CLPC已被设计和开发为一个完整的系统，配备了所有要求的部件 - 不需要外部电源或辅助件。

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更高的质量和更低的成本

生产中采用Plasticolor剂量装置和/或混合系统不仅改进了最终产品质量，还实质性降低了成本，实现了更低的劳动成本。

人们已经发现，采用剂量装置和/或混合系统能获得更高的产品质量，原料混合更加均匀，产品外表（色泽）更加规则。

均匀的混合物允许操作人员降低添加剂添加量到最低水平，而添加剂仍然达到要求，仍然得到很好的产品质量。

这样，生产时不必事先混合原料，而且

生产后没有剩余物，大大降低了库存成本。Plasticolor混合系统尤其被用于高质量生产交链绝缘产品或生产发泡层。

每种成分达到确切的剂量、完美的原料混合物有助于挤出机螺杆均化熔融体，从而获得更好的产品质量、实质性的成本降低、更少的原料消耗，例如催化剂或发泡剂。

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汽车、通信和安装电缆的可靠的质量控制

Sikora Centerview 8000是成功的Centerview 2000的提升版，配备独特的功能，例如8-点-偏心率以及椭圆度测量，一项专利申请中的云计划和许多精度和性能改进，它满足了电缆工业要求。

Centerview 8000 是一个无接触表头，提供连续在线测量。

8-点偏心率、4-轴直径和8-点椭圆度测量保证最高的精度。系统完美地适合于同轴电缆、LAN电缆、汽车和安装电缆的生产。

Sikora提供两种版本，每种都特别为你的产品设计：Centerview 8010用于直径从0.1到10mm的产品，Centerview 8025用于直径从0.5到25mm的产品。

Centerview 8000综合了光学和感应测量技术。在感应测量循环中，导体被定位，表头自动对中电缆位置。无需引导辊轮和手动调节。

这种独特的特征使它易于装置开车、处理和操作。每个操作者都喜欢其可靠性和容易使用。

系统光学部件基于衍射分析原理，并利用脉冲驱动激光二极管的光束，将电缆影像投射到CCD-生产线4个测量轴上的每个传感器。

在毫秒之间，完成对生成影像的偏心率、直径和椭圆度计算。

为了在次毫米范围内达到精确的单值，表头设计不含转动镜或光学镜。系统中

不采用移动部件后，保证无需维护，保证在所有生产速度下的可靠性。

只需校准一次，之后就不再需要校准。精确的测量值、高质量、生产优化、以及实质性成本降低是其主要优点。

云图*是显示Ecocontrol持续测量值的一种附加方式。

云图以图表形式提供偏心率短期变化分布信息。每个点代表一个与数量和角度相关的偏心率单测量值。云图的延伸显示偏心率的标准偏差。

偏心率单值呈圆形分布说明其波动范围，这种显示有助于优化工艺，以尽量降低标准偏差。

环形云图表示存在永久的旋转偏心率值，这可能是进入挤出机十字头前导体旋转/振荡产生的结果。

用电缆横截面来代表偏心率的标准方式有助于操作人员对中十字头。

但是，只有以云图显示的单值才能为操作人员提供必要的信息，以采取合适的措施来尽量降低偏心率。*专利申请中。

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○ 云图显示偏心率分布单值（圆形分布）



○ Ecocontrol 2000中偏心度的标准显示

创造电缆打标新标准

SwiftMark自动打标机特别设计用于线材和电缆工业，创造了打标效率的新标准。

SwiftMark打标机打印乙烯基复合标签到各种尺寸线缆，提高打标速率300%。一次循环只需4秒钟，SwiftMark的打印和贴标签速度很快，所需时间只是手工操作的一个零头，提高的生产力，降低了标签错误，达到最高的打印和贴标质量。

采用Tagprint Pro软件后，能快速和容易地设计标签，能下载标签文件，并USB、串行口、以太网或串联接口储存在SwiftMark上。通过用户触摸屏，就能方便地选择文件和标签数量，打标变得很简单，就像把标签贴在机器上、按在按钮上或者踏板上一样的简单。

SwiftMark还能融合到线材切割和剥离设备上，进行高速自动打标。

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Wire bending, straightening & forming

Every one of these operations to a thin, frangible product susceptible to kinking suggests implicit caution. Bend, do not break. Straightness – not stiffness. Formation but without deformity.

These shadows are an old story with the contributors to this section of Wire & Cable ASIA. In fact, they figure importantly in the regard which these high-performance specialties have gained for themselves.

Keeping a prospective threat in mind, where it can do no harm, is a very effective way of ensuring trouble-free production on the plant floor.

AIM on target with new 3D bender



○ The new Synchro Bender from AIM

AIM has introduced a new 3-dimensional machine with extended bending capabilities: the 'Synchro Bender'. The most sophisticated 3D CNC wire bending solution available, featuring a turret tool changer with three satellite mandrel benders, offers the least forming limitations (Patent pending).

The pre-loaded graphics animation allows for programme/data verification before even running a single production part. Part of an automation cell, along with a Fanuc robot, it can provide the best production solutions for today's challenging market.

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.

This comes complete with a 2-plane straightener, 2,000 kg automatic payoff unit, maintenance-free servo quad-roller feeder, precision bender axes, unlimited arm (Z-Axis) rotation, industrial PC running Windows® XP Pro and SmartEditor®.

Headquartered in the USA and with a second location in Europe, AIM manufactures a broad line of wire bending machines, from below 2mm to over 20mm diameters.

AIM can analyse customers' wire and/or tube bending needs by providing a full production proposal, including guaranteed production rates with unmatched accuracies and repeatability.

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Cometo's wide range of devices

Founded in 1983, Cometo has established itself as one of the most competitive suppliers in the wire and cable industry. In the field of straightening, Cometo offers a wide range of devices:

ESM110 is a technologically advanced wire straightener for metal wire stretching or straightening, equipped with an automatic rollers position control system.

The lower row or grooved roller is fixed, and the upper rollers are adjustable and can slide on hardened guides thanks to screws connected to a gearmotor. The epicyclic gear inlet shaft is aligned with the outlet one, that at its turn is aligned with the upper rollers' adjusting screw.

The brushless motors assembled on this model have enough torque for the mechanical frictions in order to stretch the wire or straighten it properly.

During the working process the motors are constantly fed in order to hold the rollers position without using brakes. The ESM model can store up to 100 recipes which include positioning of each roller, wire stretching percentage and related tolerance. This equipment is suitable especially for cold-rolled ribbed profiles, having diameters up to 20mm.

In the domain of spring and screw production, where straightening accuracy is needed, Cometo offers a special straightener, the ASM/ADM, a sturdy straightener manufactured with centesimal tolerances, with quick locking and release device and adjustable on both rows of rollers to ensure a proper wire straightening.

A simpler model is the AS/AD, adjustable only on one row of rollers, with quick opening system and available also with CAW rollers with double bearings circle which can bear heavy loads.

Suitable especially for wire mesh production, thanks to the minimum space necessary for its installation, another model that is part of Cometo production range is the D type with quick scissor-opening system.

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 Website: www.demgroup.com

Superior design for cold forming of metals

DEM wire rolling technology is a comprehensive provider of technology for cold forming of metals. This includes the design and supply of cold rolling lines for processing steel wire rod into reinforcing wire for the construction industry.

DEM has now developed and supplied high-speed lines for ribbed bars which, starting from wire rod in coils, can finish 4-16mm diameter ribbed wire in straight bars in lengths ranging from 0.9-14m, running at speeds of up to 8m/sec and collected in bundles.

The superior design stands in the unbeatable straightness results and cutting precision that are achieved, despite the high speed.

Bar straightness is ensured thanks to the special double straightening station. The smart design allows quick and simple set up of straightening rolls to match any production campaign. The straightening is achieved keeping the surface of the end product free of any mark and without altering its mechanical characteristics.



○ DEM has now developed high speed lines for ribbed bars

The precise cut-to-length at high speed is granted by the DEM patented bar braking and unloading device. This system consists of a continuously rotating shear, bar deviator, braking device and double channel discharging system, all controlled by an in-house developed automation package.

DEM straightening and cutting-to-length sections can also be installed on existing or newly delivered cold drawing/rolling lines for the production of coils, as additional extensions to grant the production of straight bars.

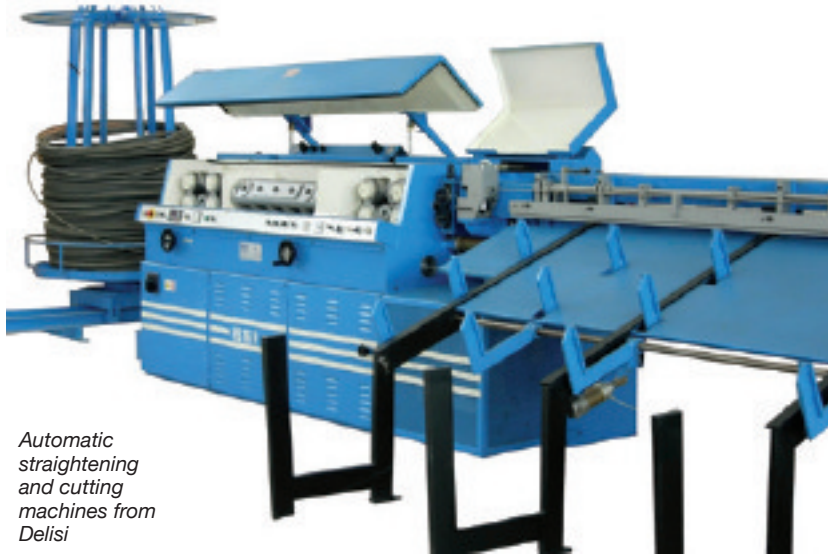
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Specialised in making a range of machines



○ Automatic straightening and cutting machines from Delisi

Delisi Srl is specialised in making automatic straightening and cutting machines for smooth and ribbed wires from 1 to 20mm diameter. Delisi machines are characterised by the rapid change of diameter, rapid change of the lengths and fast set up: about one minute, to change the diameter to work.

The spinner is supplied with a straightening unit of pre-regulated jaws for each diameter of wire to work, and it is enough to install the suitable straightening unit, according to the wire to handle and the spinner will be ready to work without waste of time and material. The straightening dies can be in polyamide for aluminium and copper wires; in bronze for aluminium, drawn steel stainless steel wires; in cast iron for drawn wires; or in cast iron with carbide inserts for drawn, laminated and ribbed wires; in integral carbide for drawn, laminated and ribbed wires. Also they can be in Teflon or wooden to fit them to the customer requirements.

The wire in the spinner is straightened through a series of bends that do not damage it while moving. With the flying cut, the shears run during the cut. After finishing the cut, they quickly return back to starting point, without the wire stopping. For a high number of short cuts, when working electrodes, Delisi can supply the machine with a continuous cutting disc, so the cutting speed is higher and the maximum production of 400 pieces per minute can easily be reached. On request the machines can be supplied with an electronic programmer and different types of pay offs and rod collection beds and other special devices.

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Website: www.delisisrl.com

Established presence

Violi Srl specialises in the design and production of industrial machinery dedicated to the manufacturing of tubes and wires, typically used in the processes of drawing, winding, straightening and cutting.

Founded in the 1992, Violi boasts an established presence on the main international markets offering a range of comprehensive and very reliable straightening machines able to process

cold and hot metal profiles. The full line includes equipment for straightening tubes or bars made of steel or other metals having a circular, cross or complex profile and ensuring excellent results and high productivity.

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New machines without making bending dies

The Videx VAS machine straightens wire, cuts to length, threads one or both ends and bends to shape. The new line of VAS-DBQ machines allows customers to change over between parts without having to make bending dies for each part.

make new sizes of U bolts in minutes. The VAS-DBQ models are equipped with a positive stripper system that allows running the machines at the fastest possible speed without risking parts jamming.

The new machines are supplied with a floating bending die that covers the entire range of round and square bottom U bolts, enabling customers to

Videx Machine Engineering Ltd – Israel
Fax: +972 3536 4802
Email: videx@videx.co.il
Website: www.videx.co.il

Decades of experience and technical knowledge

Bühler Würz Kaltwalztechnik GmbH combines decades of experience of the Würz Group with the technical know-how of the cold rolling mill manufacturer Bühler & Co. Based on Bühler's experience of more than 125 years, and supplied plants for over 1,000 applications, Bühler Würz is specialised in cold rolling mills for wire and strip. Steel application can be covered as well as non-ferrous alloys.

The main focus of the business is the strip and wire industry, the precious metal industry and various customised applications like PV-ribbon for the photo-voltaic industry.



○ The PV ribbon machine from Bühler Würz



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The synergetic effects of the fusion between Kämpfer Würz and Bühler Würz arise, in particular, in PV-ribbon machines. The perfect adjustments of the rolling mill, combined with adequate material selection for tooling of rolling emulsion and suitable cleaning units, permit the following machine parameters:

- 1,000m/min exit speed
- $\leq 0.15 \mu\text{m}$ surface quality
- $\leq 0.002 \text{ mg/cm}^2$ remaining carbon
- max. $\pm 3 \mu\text{m}$ thickness tolerance
- 0.5-7mm width
- 0.035-1.5mm thickness
- $\leq 5\text{mm}/1,000\text{mm}$ camber effect

The unique integration of the cleaning unit in connection with the achieved performance data, productivity, surface quality and close limits, are a demonstration for the innovative ability of Bühler Würz.

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Website: www.buehler-wuerz.de

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Contents in this issue

- 8 Industry News 行业动态
- 24 Telecom News 通信新闻
- 30 From the Americas 中美两国经济
- 42 Technology News 技术与产品
- 66 Furnaces & Heat Treatment 熔炉与热处理
- 74 Fasteners & Springs 紧固件与弹簧
- 82 紧固件及配件——中国紧固件产业
- 84 Wire China 2010
- 127 Editorial Index 编辑目录
- 127 Advertisers Index 广告索引

Technical Articles

121 Improving the mechanical properties of non-hydrogenated flame-retardant compounds. Jeremy R Austin, Herbert S.-J. Cho, Sartomer Company

128 改善非卤素阻燃复合物的机械性能 英文 - Jeremy R Austin, Herbert S.-J. Cho, Sartomer Company

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线材弯曲、 矫直与造型

在生产纤细易碎并容易扭折的产品时，每道工序必须谨慎。弯曲而不能断裂，矫直而不能僵硬，造型而不能造成损伤。

这些话题在《线缆亚洲》（Wire & Cable ASIA）显得老生常谈。实际上，他们非常注重这些高性能的专业化产品带来的成果。未雨绸缪的心态，不会带来任何害处，它能够有效避免工厂生产的麻烦。

AIM 致力于提供3D弯曲机 Cometo的多种设备



○ 来自AIM的新型Synchro Bender

AIM已经引入了拥有拓展弯曲功能的新的三维机械“Synchro Bender”。最先进的3D电脑数值控制(CNC)线材弯曲解决方案特点是带三个附属心轴弯曲器的回转头换刀装置,提供了限制最小的造型方案(正在申请专利)。预先载入的图形动画甚至可以在单个生产活动开始之前进行程序/数据的检验。自动工作单元的一部分与发那科(Fanuc)机器人可以为如今具有挑战性的市场提供最好的生产解决方案。在任何情况下,线材可以直接从线轴直接送入、矫直、弯曲和切割,所用的软件套装可以在编程方面提供灵活性和简约性。

其还配有双切面矫直机,2000千英厘自动输出单元,免修理伺服四芯发动机进料机,精确弯曲模切具,无限制臂(垂直轴)旋转,工业用运行Windows® XP Pro和SmartEditor®的个人电脑。AIM总部设在美国,并将欧洲作为第二办公场所。其制造商拥有世界上最全面的线材弯曲机械生产线,直径从2毫米到20毫米不等。AIM可以对您的线材和/或管材弯曲需求进行分析,并提供全面的生产建议,包括以无法比拟的精确程度和可重复性进行高速生产。

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不需要制造弯曲模的新型机械

Videx VAS机械能够矫直、切割线材、穿线以及将线材弯曲成特定造型。VAS-DBQ系列产品的生产线让顾客能够在各种部件之间转换,而不需要根据每种部件制造弯曲模。

新机械还配备了浮动弯曲模,该弯曲模能够覆盖圆形及方形底部U型螺栓,使得顾客在数分钟内就能制造新型号的U型螺栓。VAS-DBQ模具配备积极的汽提塔系统,该系统能让机械以最快的速度运转而不需担心部件卡住。

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成立于1983年的Cometo公司已经成为世界上线材和线缆行业最具竞争力的供应商。在矫直领域,Cometo公司提供了多种设备:

ESM110是用于金属线材拉伸和矫直的高级线材矫直机,配有自动收卷位置控制系统。下面的滚轴即带槽滚轴为固定,上面的滚轴可调整,由于齿轮电动机上带有螺栓,其可在导轨中滑动。行星齿轮主动轴和外面的传动轴是一致的,并且在转弯处于上面的滚轴调节螺栓是一致的。在这种模具上组装的无刷式电动机对机械摩擦拥有足够的力矩,从而能够正确拉伸和矫直线材。

在工作程序中,发动机能够均匀送入线材,保持传动器位置而不需要制动。ESM模具可以储存多达100套数据方案,包括每个传送带的定位、线材拉伸比例和相关的偏差率。这种装备特别适合直径在20毫米以下的冷轧带肋线材。

在弹簧和螺钉制造方面,矫直的精确性非常重要。Cometo提供了特别矫直机ASM/ADM,这是偏差在百分度的坚固的矫直机。其能够快速锁定和释放装置,并在两排传送带上均能够调节,以确保精确的线材矫直。

一种更简单的模具是AS/AD,只在一排传动带上可调整,带有快速开启系统,并能够配备带有能承载能力强的双列轴承的CAW传送带。由于其装置需要的空间较小,特别适合于金属网的生产。Cometo生产的另一种模具是配备快速剪刀开启系统的D型模具。

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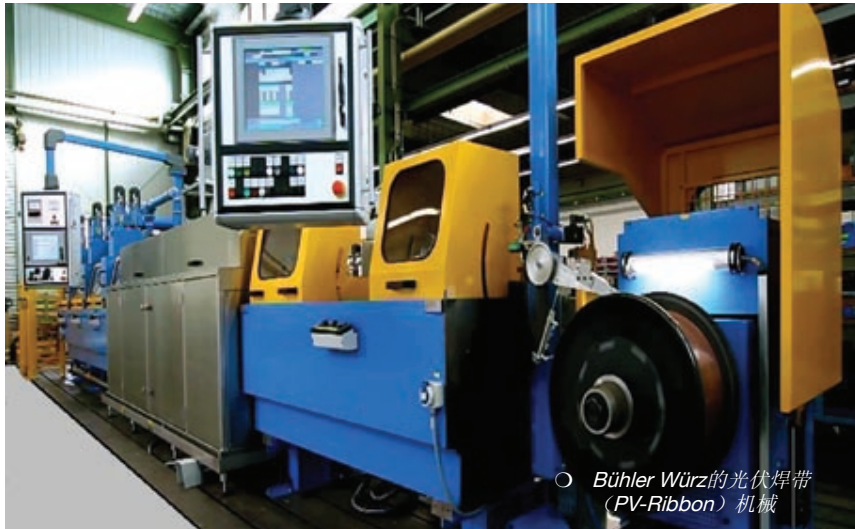
显赫的地位

Violi Srl致力于专业设计和生产用于制造管材和线材的工业机械,特别是用于控制、缠绕、矫直和切割程序的机械。成立于1992年的Violi在国际市场上占据了重要的地位,提供能加工冷热金属型材的多种可靠的矫直机。整个生产线包括用于矫直钢或其他金属制造的圆形、十字形、或复杂管材、材料棒的设备,并能确保产品优良、生产高效。

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数十年的经验和技術

Bühler Würz Kaltwalztechnik股份有限公司 (Bühler Würz Kaltwalztechnik GmbH) 结合了Würz集团数十年的经验和冷轧机制造商Bühler & Co的技术知识。基于Bühler公司超过125年的经验以及提供上千种应用的工厂, Bühler Würz是专业制造线材和带钢的冷轧设备的公司。钢材产品的应用还包括有色金属。业务的重心主要是线材和带钢行业、贵金属行业和如为光电行业提供的光伏焊带 (PV-Ribbon) 的定制产品。



○ Bühler Würz的光伏焊带 (PV-Ribbon) 机械

Kämpfer Würz与Bühler Würz合作的协同效应逐渐显现出来, 特别是在光伏焊带机械领域。轧钢厂的完美调整以及轧钢乳状液加工和清洁的材料选择能够适应以下机械直径:

- 1.000米/分的输出速度
- ≤ 0.15 微米的表面精度
- ≤ 0.002 毫克/平方厘米残炭率
- 最大± 3微米的厚度偏差
- 0.5 - 7 毫米的宽度
- 0.035 - 1.5毫米的厚度
- ≤ 5 毫米/1000毫米的拱度效应

清洁单元与得到的绩效数据、生产力、表面精度和窄范围的独一无二的结合体现了Bühler Würz的创新力。

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金属冷成形的优良设计



○ DEM 已经开发出带肋线材的高速生产线

DEM线材压制技术提供了多种金属冷成形的技术, 包括将钢线材棒加工成加强型线材的冷轧生产线的设计和供应。

DEM目前已经开发和供应了竹节钢生产线, 从线轴的线材棒开始, 可以8米/分的速度生产直径在4-16毫米、长度在0.9-14的带肋钢筋, 并整理成捆。这种设计的优良性体现在高速生产下仍能保持无法比拟的矫直程度和切割精度。

正是由于特别的双柱矫直设备才确保了线材的直度。这种高明的设计允许轧平机能够针对任何生产要求进行快速和简单的设置。通过确保终端产品没有任何标记, 也没有改变其任何的机械特征达

专业制造各种机械

Delisi Srl致力于专业制造针对直径在1-20毫米的平滑带肋线材自动化矫直和切割机械。Delisi机械的特点就是直径、长度的快速变化和设置迅速: 只需要约一分钟就可以变换直径继续运转。旋转器配备适合各种线材直径的预先设定的钳夹矫直单元, 能根据线材要求装配合适的矫直单元, 而且旋转器可在不浪费材料和时间的情况下运行。

矫直机可以用于聚酰胺中矫直铝制和铜质线材, 可用于青铜中以矫直铝制不锈钢线材, 用于生铁中生产控制线材, 用于镶硬合金生铁中生产拉伸的复合带肋线材, 用于整体硬质合金生产拉伸的复合带肋线材。同时, 它们也可以按照客户要求用于铁氟龙或木制材料。



○ Delisi的自动矫直和切割机械

旋转器中的线材通过一系列的弯曲矫直, 并在移动时也避免损坏。在切割过程中, 飞剪同时运行。切割之后, 它们迅速回到起始位置, 而不用制动线材。Delisi 在制造焊条时对于大量的剪切配备连续切割片, 因此切割速度更快, 很容易达到每分钟四百块的最大产量。根据要求, 机械还可配备电子程序装置和各种放线机、棒线材收集底座和其他特殊装置。

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网址: www.delisisrl.com

到了较高的直度。精确的高速定尺剪切是得益于DEM享有专利权的软件制动和卸载装置。

该系统由旋转剪切刀、线材偏差器、制动装置和双通道出料系统, 所有这些都由室内高级自动化系统控制。

DEM的矫直和剪切设备也可安装在现有的或新安装的冷拉伸/轧制卷轴生产线上, 以生产高直度的线材。

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网址: www.demgroup.com

AIM Inc	51, 57	Delisi Srl.....	53, 58	PaTel	10, 25
Alanco-Alamatic Ltd.....	17, 24	DEM Costruzioni Speciali Srl..	52, 58	Queins & Co GmbH.....	16
Appiani Srl.....	20, 24	Electrolock Inc.....	25	Royal DSM NV.....	14, 26
Asia Pacific Wire & Cable	20, 27	Evonik.....	11, 26	Sikora AG	46, 49
Beta LaserMike	42	Force Control Industries	44, 48	Teknor Apex.....	14, 26
Borouge.....	12, 27	HellermannTyton.....	45, 49	Tenova	8, 22
Buhler Wurz Kaltwalztechnik...	54, 58	IWMA.....	10, 27	Videx Machine	
Cerro Wire LLC.....	28	Jinling DSM Resins Co Ltd	21, 28	Engineering Ltd	54, 57
Chemetall	10	Kistler Instruments AG	18, 26	Violi Srl.....	53, 57
Cometo di Tocchetti Enrico		Leoni AG.....	17	Weiyang Co Ltd	44
& C snc.....	51, 57	Lihua International Inc	18, 22	Woywood Kunststoffmaschinen	
Creat Resources		LMH Industries	24	GmbH & Co Vertriebs KG.....	43, 48
Holdings Ltd	14, 27	Nu-Star Material Handling.....	19, 24	Zumbach Electronic AG	42

Front cover courtesy of Queins & Co GmbH, showing new heavy duty planetary machines for production of steel ropes as well as for armouring purposes. For more details please call +49 2472 80 80, or email info@queins.com Website: www.queins.com

Advertisers index

AdwanteK Technologies Co Ltd.....	14	Paul Leibinger GmbH & Co KG	53
Ajex & Turner Wire Dies Co	12	Magnetic Analysis Corporation	17
Anbao (Qinhuangdao) Wire & Mesh Co Ltd	18	Mathiasen Machinery Inc	21
Candor Sweden AB.....	19	Messe Düsseldorf GmbH	35
CERSA-MCI	25	Messe Düsseldorf GmbH - wire Russia 2011	39
Daloo Machines.....	11	Messe Düsseldorf GmbH - wire Southeast Asia 2011	45
Dongguan Chuangkang		Maschinenfabrik Niehoff GmbH & Co KG.....	2
Electrical Mech Assembly Co Ltd	52	Queins & Co GmbH.....	Front cover
Dongguan Zhangli Machine Fittings Co Ltd.....	16	Rosendahl Maschinen GmbH	15
Enshiang Machinery Enterprise Co Ltd.....	54	SAS Engineering & Planning Srl	1
Gauder – Gauder Group	13	Shanghai Electrical Cable Research Institute	34
Guanbiao Electrical Machinery Co Ltd.....	54	Shanghai Nanyang Equipment Factory.....	23
Huestis Industrial	37	Shanghai Shenchen Wire & Cable Equipment Co Ltd	28
Investment Opportunity.....	12	Sheng Chyeen Enterprise Co Ltd.....	Back cover
ITO-SIN (Deyang) Wire & Cable Equipment Co Ltd		Sikora AG	9
.....	Inside back cover	Supermac Industries India Ltd	11
Jiangsu Dawn International Trading Co Ltd	52	Tianjin Jianke Mechanical Products Co Ltd	
Jiangsu Qunye Electrical Co Ltd	21	Inside front cover
Lamnea Bruk AB	3	Wire Association International Inc.....	47



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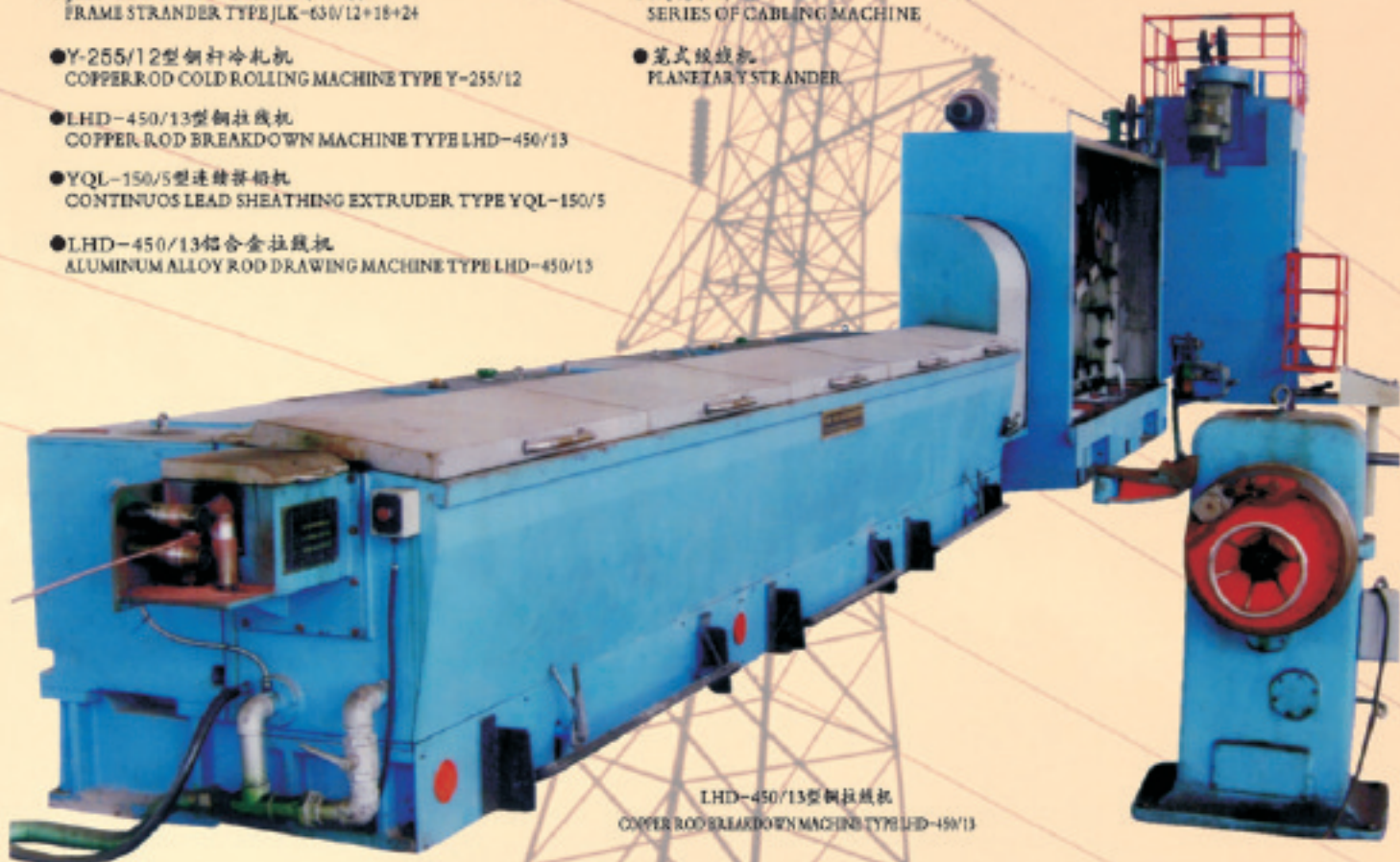
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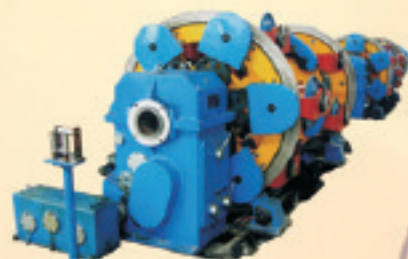
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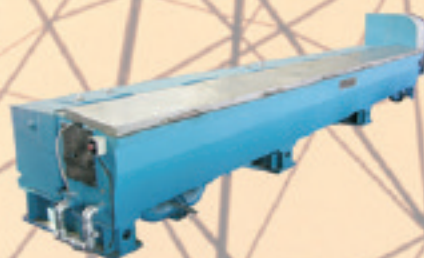
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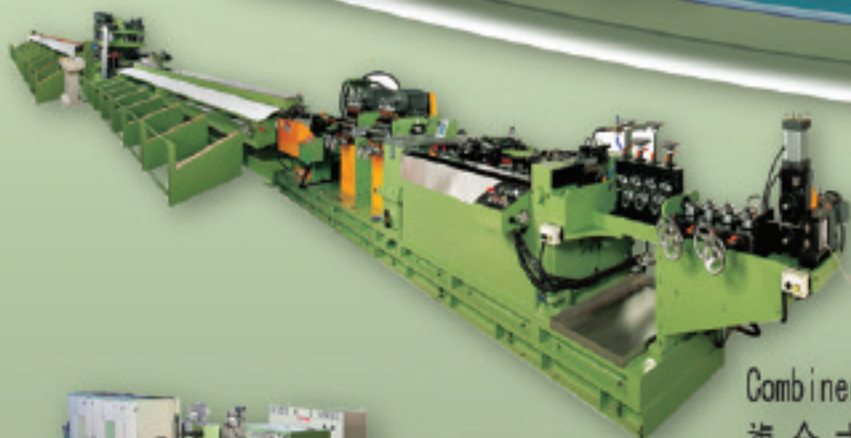
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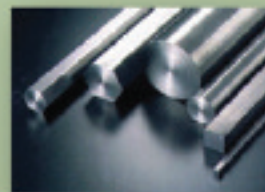
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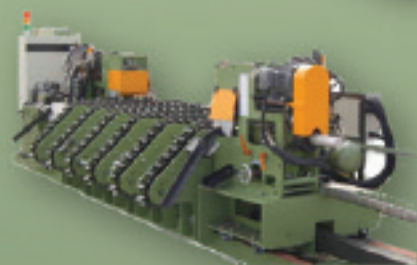
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