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May 2009
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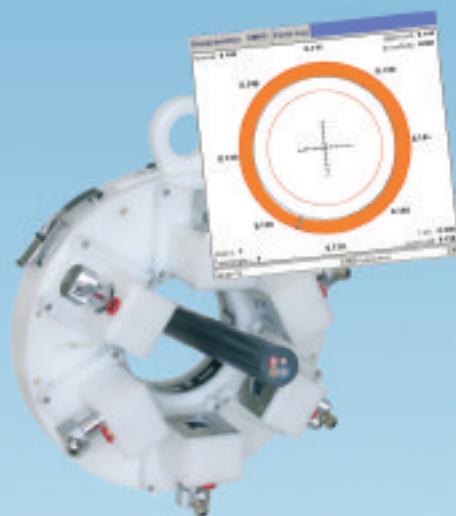
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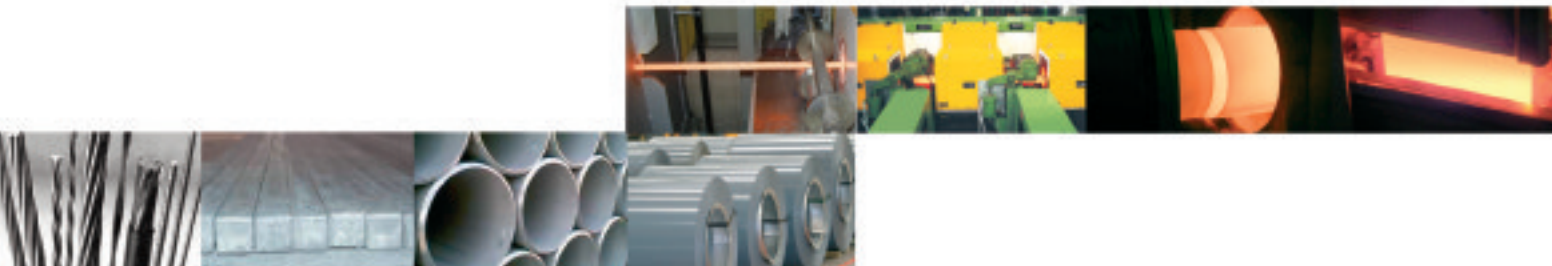
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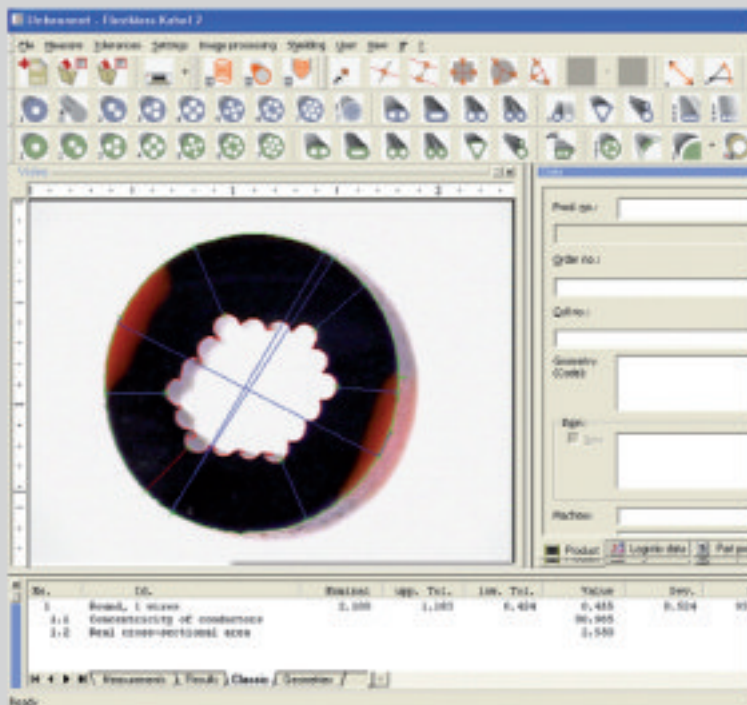
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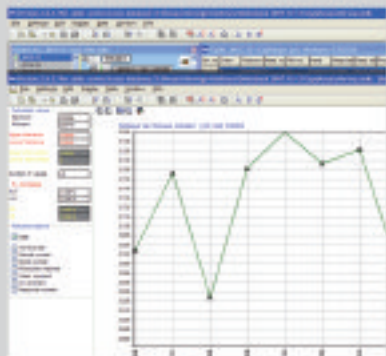
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作者: 意大利B&B Compounds公司Claudia Attanasio和Laura Colloca

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May

12-15: wire Russia 2009 – trade exhibition – Moscow, Russia
Organisers:
 Messe Düsseldorf GmbH
Fax: +49 211 4560 7740
Email: info@wire-russia.com
Website: www.wire-russia.com



The Dormition Cathedral, Kiev, Ukraine
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June

10-12: Wires & Fasteners Ukraine (TDS) – trade exhibition – Kiev, Ukraine
Organisers: TDS – Expo
Email: olga@welding.kiev.ua
Website:
 www.weldexpo.com.ua

23-26: 10th China International Metal & Metallurgy Exhibition
Organisers:
 Julang Exhibition Co Ltd
Email:
 meiwen@julang.com.cn
Website:
 www.julang.com.cn

October

5-10: EMO Milan 2009 – trade exhibition – Milan, Italy
Organisers: EFIM-ENTE Fiere Italiane Macchine
Email: info@emo-milan.com
Website: www.emo-milan.com

6-8: Metaltech/Tubotech – trade exhibition – Sao Paulo, Brazil
Organisers: Grupo Cipa
Email:
 international@cipanet.com.br
Website: www.cipanet.com.br

12: IWMA Technical Conference – Bangkok, Thailand
Organisers: IWMA
Fax: +44 1926 314755
Email: info@iwma.org
Website: www.iwma.org

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

November

2-3: Istanbul Cable & Wire '09 – technical conference – Istanbul, Turkey
Organisers: IWMA, WAI, ACIMAF
Fax: +44 1926 314755
Email: info@iwma.org
Website: www.iwma.org

9-11: 58th IWCS – technical conference – Charlotte, NC, USA
Organisers: IWCS Inc
Fax: +1 732 389 0991
Email: admin@iwcs.org
Website: www.iwcs.org

April 2010

12-16: wire/Tube Düsseldorf – trade exhibition – Düsseldorf, Germany
Organisers: Messe Düsseldorf
Fax: +49 211 45 6087 7793
Email:
 wire@messe-duesseldorf.de
Website: www.wire.de

September

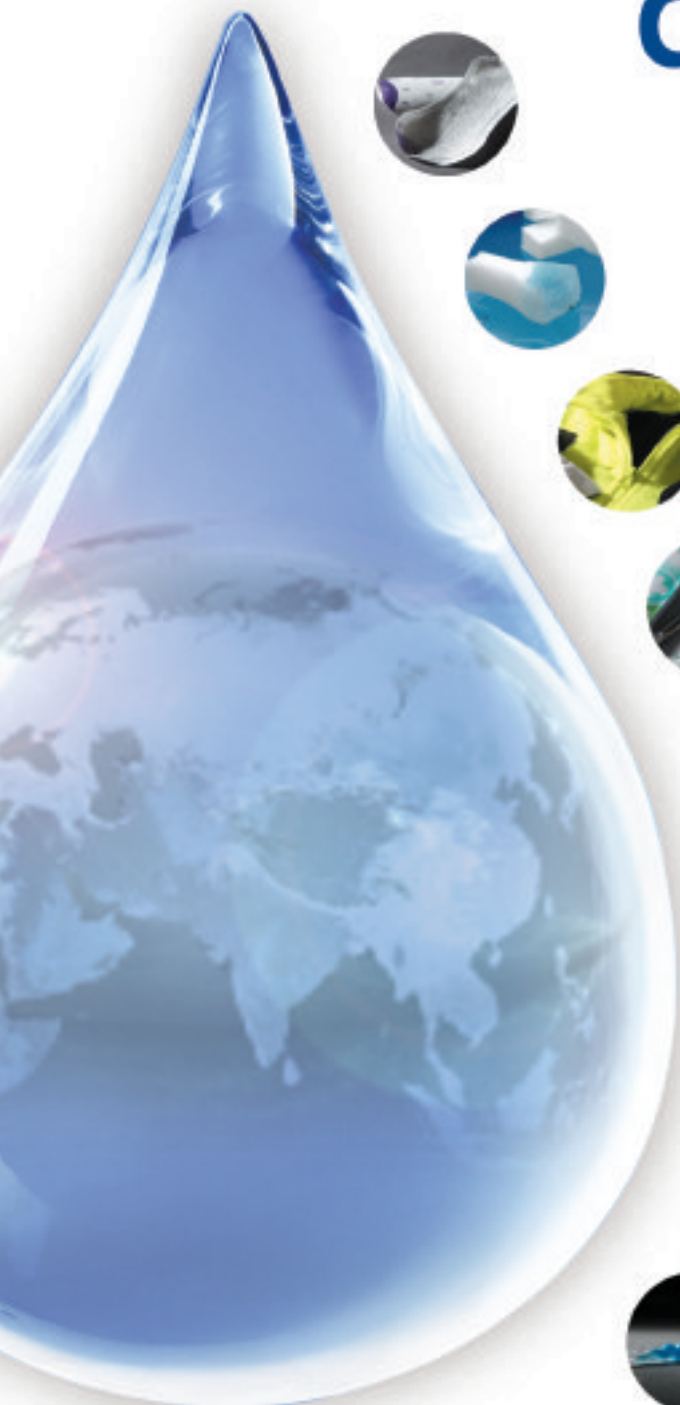
TBA: wire China 2010 – trade exhibition – Shanghai, China
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○ A hive of activity, the North entrance of Fairground Düsseldorf during wire Düsseldorf 2008

Get online for wire Düsseldorf 2010

The dates are confirmed for next year's wire Düsseldorf exhibition, 12th–16th April 2010, and advance information for exhibitors and visitors is available from the Messe Düsseldorf website, www.wire.de.

Messe Düsseldorf is already accepting space bookings. New and previous exhibitors should log on to www.wire.de/2330 (or www.wire.de/1330 for German language pages) and follow the links to the application forms. New exhibitors applying online will also need to print and post their application, but previous exhibitors can complete the entire process online.

Companies wishing to be part of the International Wire & Machinery Association (IWMA) exhibitor group should send applications direct to the association, rather than to Messe Düsseldorf.

New for 2010 is a web portal media package for all exhibitors. A compulsory charge of €320 provides each exhibitor with an online company profile, product details, latest company news, details of the exhibition stand staff, a programme of events on the stand, an online appointment diary, links to the company website, a video presentation and much more. Fully searchable, the information will be easily found by browsers and visitors and, with secure password access, can be updated and maintained before, during and after the fair.

This information will also be available on the KATI visitor information system.

The web portal is not expected or designed to replace the wire Düsseldorf catalogue, which will continue to be the first – and best – tool for visitors planning their visit and finding their way

around the halls, as well as providing a valuable resource after the event. Details and entry forms for the 2010 show catalogue are available from Thos. Neureuter, Fair Media Office, and online via <http://wire.media-entries.com>, which gives details of a special 'early bird' offer to exhibitors.

After extensive surveys conducted during and after the wire/Tube 2008 show, event organisers Messe Düsseldorf have confirmed that the 'Metav' 2010 exhibition will be held separately from wire/Tube 2010, allowing wire to occupy its traditional halls, 9 to 12, with fastener technology in halls 15 and 16, and spring making in halls 16 and 17.

Messe Düsseldorf – Germany
Fax: +49 211 45 6087 7793
Email: wire@messe-duesseldorf.de
Website: www.wire.de

BLM Group acquires wire-bending company

BLM SpA of Cantù, Italy, a leading manufacturer of tube bending and end forming machines and systems, has purchased Officina Meccanica Montorfano Sas. The takeover of Montorfano, effective from 13th January 2009, allows BLM to complement its technology in the tube-bending field with highly productive machines for the bending of wire, small diameter bar and tube, strip/profiles, and armoured heating elements.

For more than forty years Montorfano has specialised in the manufacture of multi-head machines for wire bending, its first patent for this type of machine being granted in 1965 and its first three-axis CNC machine introduced in 1979. Today the company offers a range of 18 standard machines capable of bending wire and bar from 1mm to 33mm diameter. These machines are widely used in the automotive and construction industries, and in the production of household appliances, indoor and outdoor furnishings, bathroom accessories, and equipment for shops and stores.

BLM Group UK Ltd – UK
Email: sales@blmgrouppk.com

Fax: +44 1525 402312
Website: www.blmgrouppk.com

BLM Montorfano – Italy

Website: www.montorfano.net

Madem Reels' 60th anniversary

Madem SA, founded in 1949, started with 25 employees in an area of 800m² in the city of Bento Goncalves, Rio Grande do Sul, Brazil.

The company's first products were wooden barrels for wine and food. In 1970 Madem launched an exporting operation, and two years later underwent a major product diversification – the manufacture of the first wooden cable reels that would ultimately turn the company into what is believed to be the largest wooden cable reel manufacturer in the world.

Today, Madem has 800 employees worldwide and 110,000m² of indoor manufacturing space. It owns 12,000 hectares (30,000 acres) of pine forests, two lumber mills, a plywood plant, and many state-of-the-art automated reel manufacturing lines. Madem is one of Brazil's largest forestry groups, with manufacturing operations in the USA, Spain, Romania, and Bahrain. Madem produces approximately 500 containers of unassembled wooden reels per month, and supplies more than 200 customers in 40 countries.

Madem Reels – Brazil
Email: madem@madem.com.br

Fax: +55 54 3462 5900
Website: www.mademreels.com

Cable marking website

Medek & Schörner, suppliers of cable marking machines and optical fibre coating lines, has completed an update of its website to offer a clear means of accessing detailed information about the company and its product portfolio.

The newly revamped website is designed to make it faster and easier for users to find the information they need. The site now features email links to the members of staff responsible for the respective product groups and sales areas. Users will also find a section devoted to news and events, with information about the latest developments as well as events at which Medek & Schörner will be represented and where the company's product range will be on show.

The links section leads to useful information about suppliers of consumables, such as marking inks and hot embossing foils.

Information on the website is available in English, French, German, Italian and Russian, and there are plans to add Spanish in the near future.

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Email: m+s@medek.at

Fax: +43 1982 7296
Website: www.medek.at

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Elmer 'Ace' Godwin remembered

John Barteld, CEO and director of IWCS, writes that the wire and cable industry lost a legendary leader and friend when Elmer 'Ace' Godwin, former CEO and director, passed away in late February.

An electronics engineer, Ace worked with the US Army Electronics Command research and development laboratories at Fort Monmouth, NJ. Upon his retirement from the Army in 1979, Ace joined the International Wire and Cable Symposium as its CEO/Director. Ace led the IWCS for 23 years, retiring in 2002.

Joining the US Army early in the war, Ace became a member of the Tuskegee Airmen, the all black 223rd Fighter Squadron. Ace distinguished himself during his service to the country, being awarded a Good Conduct Medal and the Distinguished Unit Badge while serving in Italy.

After the war, Ace continued his pursuit of education, first at Monmouth College and eventually at Rutgers University, where he received

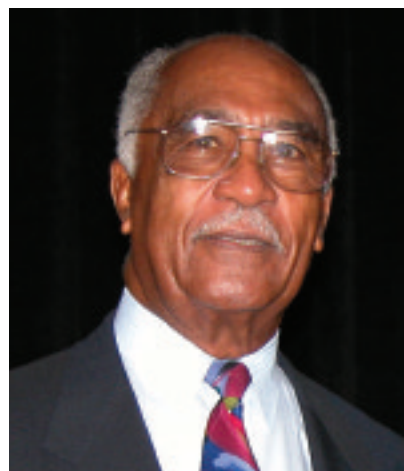
his BS degree in engineering. He then went to work as a civilian for the US Army.

Ace became a leading international lecturer and authority on wire and cable engineering, and contributed significantly to the growing International Wire and Cable Symposium, which was also head-quartered at Fort Monmouth.

His migration to the leadership of the IWCS was viewed as a natural step in his dedication to the industry and to his interest in advancements in the technology.

The list of organisations to which Ace dedicated his time and service is extensive, and his service to his country was ultimately recognised with the award of the Congressional Gold Medal in 2007.

John writes, "On a personal note, Ace continued to 'look over my shoulder' at the operations of the IWCS. He always knew when I was in the office in Eatontown, and would stop by to say hello and visit for a few minutes.



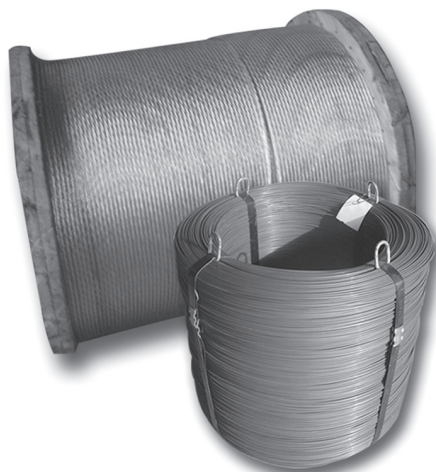
○ Elmer 'Ace' Godwin

"He was keenly interested in the success of the IWCS and always available to offer a kind word of advice, or just to offer encouragement when obstacles loomed. I shall miss him."

A scholarship fund was endowed at Rutgers University upon Ace's retirement from the IWCS. Details about donating to the fund in his honour are available from the IWCS.

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10th China International Metal and Metallurgy exhibition



○ A view of last year's International Metal and Metallurgy exhibition

The 10th China (Guangzhou) International Metal and Metallurgy exhibition will take place from 23rd to 26th June at the China Import and Export Fair Pazhou Complex, Guangzhou.

Opening times:

Tuesday 23 rd	9.30am – 16.30pm
Wednesday 24 th	9.15am – 16.30pm
Thursday 25 th	9.15am – 16.30pm
Friday 26 th	9.15am – 12.00pm

The Pazhou Complex is the largest exhibition centre in Asia; first opened in 2002 it is planned to cover 700,000m² when completed. The first stage occupies 430,000m².

Further details, as well as exhibitor, visitor, transport and accommodation information, can be found on the organiser's website.

The landscaped grounds provide a beautiful environment close to the Pearl River with good transport links.

The similar China International Metal Industry Fair, hosted by China Iron and Steel Industry Association, will run concurrently with the China International Metal and Metallurgy exhibition on the same site.

China (Guangzhou) International Metal and Metallurgy exhibition is organised by Julang Exhibition Co Ltd and Guangdong Provincial Metal Society.

Julang Exhibition Co Ltd – China
Fax: +86 20 38620790
Email: meiwen@julang.com.cn
Website: www.julang.com.cn

This year's show is the largest so far (55,000m² of exhibition area) and is expected to attract over 200,000 individual delegates, as well as business and industry department representatives from more than 30 countries.

Appointment at QED

Exhibitors will represent the entire industry supply chain and the main areas of interest at the show will include:

QED Wire Lines Inc has added Andrew Banham to its engineering team.

- Plate metal, tube, bar, wire, metal processing and setting equipment
- Fastener and spring equipment
- Die casting, foundries and industrial furnaces
- Stainless steel industry
- Sheet metal, forging, stamping and setting equipment
- Automation and automatic metallurgical equipment

A qualified mechanical engineering technologist, Andrew ran his own mechanical engineering design company for ten years, working in a range of industries, and is a member of the Ordre des Technologues Professionnels du Quebec.

QED Wire Lines Inc – Canada
Fax: +1 450 458 0200
Email: sales@qedwire.com
Website: www.qedwire.com

Sometimes it's good to
plan ahead ...



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<http://wire.media-entries.com> | <http://tube.media-entries.com>

Braude appoints agent in India

E Braude (London) Ltd is a specialist manufacturer of heating equipment for the highly corrosive liquids found in pickling procedures used in the steel industry and in many chemical and metal finishing processes.

The company attended the Wire and Cable India exhibition in November 2008, to display its range of equipment for corrosive liquids.

David Snoxhill, the managing director said, "This was the company's first visit to India and as such was a fact finding

exercise as much as a sales promotion. We have certainly achieved the first objective and it has confirmed our view that India is a vibrant and exciting market that is going to become more important over the next few years.

"We also took the time to see some of our existing customers, which proved very useful.

"As a result of the visit we have appointed Amit Banerjee of Beam International as our agent for the industrial steel, wire and tube sector.

Amit has been working in this sector for many years and we are very confident that with his experience we should be able to bring our products to the attention of more companies in India.

"All in all it was a very successful exercise that will be the foundation for a permanent presence in the Indian market."

E Braude (London) Ltd – UK
Fax: +44 1252 875281
Email: info@braude.co.uk
Website: www.braude.co.uk

New Blue Book edition

Fort Wayne Wire Die Inc has released the latest edition of its Blue Book wire drawing reference guide, completely updated and available in English, Chinese and Russian.

The guide provides valuable, current information on hole size tolerances, available polycrystalline diamond materials and dimensions, and die material comparison tools.



○ FWWD's Blue Book

Other content includes wire gauge charts, detailed wire die technical drawings and nomenclature, die re-cutting options, mathematical wire drawing principles and more, all constructed and organised to guide engineers through a logical die selection process.

Fort Wayne Wire Die Inc – USA
Fax: +1 260 747 4269
Email: sales@fwwd.com
Website: www.fwwd.com

Nexans signs joint venture agreements with Polycab

Nexans has announced the signature of the final agreements with Polycab, India's largest cable company, for the creation of a joint venture to be majority-held by Nexans and managed in close cooperation with its Indian partner.

The joint venture, with its headquarters in Vadodara in the state of Gujarat, will cover the manufacture and marketing of special cables for the shipbuilding, material handling, railway and windpower industries. The agreements also include the production of high voltage (HV) underground cables, which was initially anticipated to constitute a second phase.

Michel Lemaire, executive vice president for the Asia-Pacific area of Nexans, said: "By signing today's agreements with Polycab, we team up with a high-quality partner to ensure the success of our first industrial venture in the Indian market, as well as benefiting from the sustained growth of this emerging economy. Moreover, the immediate extension of the scope of our agreement to include high voltage cables should allow us to take a strong position in the growing power infrastructures market in India."

The industrial element of the joint venture, which includes the construction of the new cable production unit, will start immediately and cover a period from 18 to 24 months.

Polycab currently has sales of over \$600 million, with twelve plants employing more than 3,500 people in the manufacture of power and building cables.

Nexans – France
Email: nexans.web@nexans.com

Fax: +33 15669 8484
Website: www.nexans.com

Making cables in Iran

Simbaf Company manufactures telephone and power cables from its 21,000m² facility at Saveh.

At present the factory not only produces power cable according to VDE-BS-ISIRI standards but also various types of telecommunication cables including buried filled cables (BFC), conduit filled cables (CFC), self supporting cables (SSC), indoor

cables, coaxial and sheathed cables, fire resistant and special order cables (SSC). Simbaf is the holder of a standards certificate from Industrial Research Institute of Iran and ISO 9002 DNV Holland.

Simbaf Company Ltd – Iran
Fax: +98 256234 2115
Email: info@simbaf.com
Website: www.simbaf.com

Eurolls' new strategic actions

Having accomplished the rationalisation plan of its drawing and rolling processes started with the acquisition of Team Meccanica, Eurolls Group has officially concluded its project by formalising the incorporation of the Team Meccanica business into Eurolls SpA on 30th November 2008.

With a view to enhancing the momentum created by this strategic action, Eurolls SpA purchased at the same time a new large industrial building (8,000m²) in Remanzacco (Udine).

The new premises will, at first, house the Machinery division. Subsequently, 60,000m² nearby will be used to relocate the Eurolls SpA headquarters and three other local operating units, including the new electric/electronic division.

The new facility will significantly improve both production and after-sales assistance.

Eurolls – Italy

Fax: +39 0432 796501

Email: info@eurolls.com

Website: www.eurolls.com

Madem Gulf Industries launched

On 8th February at the Middle East Electricity Show, Dubai, Madem Reels Group introduced its newest member, Madem Gulf Industries WLL, located in the Kingdom of Bahrain.

Leandro Mazzaccato, Madem Group sales director said: "Our new plant will streamline our Middle East operations, and provide our customers with lowered inventories while optimising their logistics.

We are absolutely confident in the eminent success of our new manufacturing unit, and our Middle East customers are looking forward to our start-up. Production will begin in May."

Madem Gulf Inc will initially produce 50 truckloads of reel kits per month, increasing to 100 truckloads per month by June.

Madem Reels – Brazil

Fax: +55 54 3462 5900

Email: madem@madem.com.br

Website: www.mademreels.com

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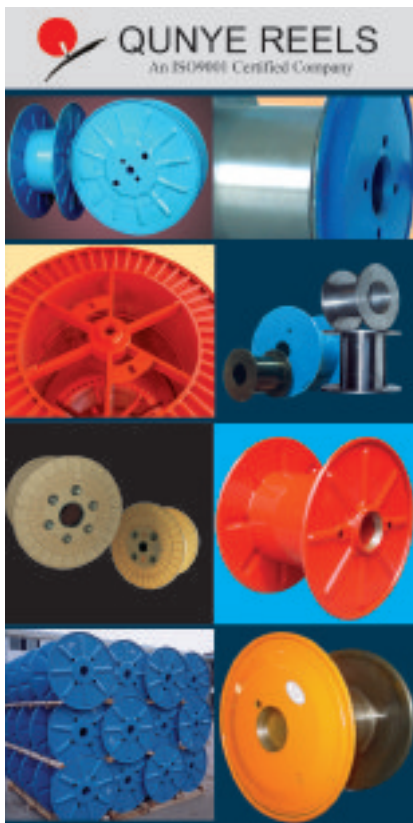
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tube@neureuter.de



Address: Fangxiang, Yangzhou City, Jiangsu Province, P.R. China
 Tel: 0086-514-87381188 Fax: 0086-514-87383456
 Web: <http://www.qunye.com.cn>
 E-mail: qunye@qunye.com.cn

MPI range sold worldwide

MPI was established in 1979 to manufacture high quality wire and cable machines, and has completed thirty years of continuous development and services to the wire, power and telecom cable industries.

The company is proud to have developed into a leading manufacturer of machines and has successfully commissioned equipment at cable factories in India, the Middle East and Europe.

The manufacturing range includes wire-drawing machines; rigid and planetary stranders; wire, strip and tape armouring machines; drum twisters; laying-up and rewinding machines, and cable sheathing lines.

MPI has recently received a bulk order from Middle East cable companies for the supply of a variety of cable manufacturing equipment.

MPI Machines Ltd – India
Website: www.mpigwl.com

Fax: +91 751 2366974

Tapes and fabrics for cable

Hanyu Cable Materials Co Ltd was established in 1982 and has maintained a clear focus on serving the needs of the cable industry ever since. It has been granted ISO9001:2000 certification by an international certification body.

The company started production of high strength polyester non-woven fabric for cable makers and power, data and telecommunications cable material makers all over the world. Hanyu Cable Materials' non-woven fabric has excellent characteristics – tensile strength, thickness, antiseptic, no causticity and easy machining – and is widely used in binding cable, making semi-conductive non-woven tapes and water-blocking non-woven tapes.



○ Cable tapes from Hanyu Cable Materials

Since the beginning of 2007 Hanyu Cable Materials Co Ltd has developed semi-conductive shielding tapes, water-blocking tapes, semi-conductive tapes, water-blocking and halogen-free low-smoke and flame-retardant tapes, non-woven and special cable tapes.

Hanyu Cable Materials Co – China
Website: www.hanyu-tapes.com



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7. Nail Packaging Machine
8. Barbed Wire Manufacturing Machine

For technical and contact details please refer to our website:
www.zica.ba

PWM celebrates 25 years of pressure

British company PWM will be celebrating 25 years in the international wire and cable industry in May 2009.

The company is believed to have pioneered the process of cold welding very large rod sections with the introduction of its first rod welder in 1985. The electro/pneumatic EP500, developed to meet industry demand for a machine that could accommodate copper rod up to 12.5mm in diameter and aluminium to 15mm, is still in production today and is one of PWM's best sellers. At the other end of the scale, on-going research and development has enabled PWM to develop dies capable of joining wire as fine as 0.08mm in diameter.

Looking to the future, PWM's managing director, Steve Mepsted, said: "Despite the challenging market, we enjoyed record sales growth last year. Cold welding continues to provide a consistent, reliable and cost effective method of welding non-ferrous materials."

Pressure Welding Machines – UK
Email: pwm@btinternet.com

Fax: +44 1233 820847
Website: www.pwmltd.co.uk

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Manfred Tietjen, Technician, SIKORA AG



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○ 2008杜塞尔多夫会展期间会场北门盛况

准备杜塞尔多夫2010年 线材会展

明年杜塞尔多夫线材会展日期已经确定：为2010年4月12日到16日。您可以从杜塞尔多夫会展中心网站www.wire.de预先了解参展商和参观者的信息。杜塞尔多夫会展中心已经开始接受展台预定。新老参展商应当登录www.wire.de/2330（或www.wire.de/1330德语网页），以获得申请表。进行在线申请的新参展商需打印和邮寄其申请表，但老参展商可以在线完成整个申请过程。对于希望成为国际线材及设备协会(IWMA)成员的公司，参展商应当将申请表直接发送给协会，而不是发送给杜塞尔多夫会展中心。

为所有参展商建立的门户网站媒体包是2010年会展的新事物，它为每个参展商提供其公司介绍、产品细节、公司新闻、展台人员介绍、展台活动介绍、在线约见、链接到公司网站、视频介绍等等，每个参展商须交纳320欧元。

信息是完全可搜索的，浏览者和参观者可以容易地找到信息，并具有保安登录密码，在会展前期、中期和后期均可更

新和维护这些信息。在KATI参观者信息系统中也有这些信息。

门户网站并非希望或设计更换杜塞尔多夫线材会展目录，门户网站仍然是参观者的首个、而且是最好的工具，来计划他们的访问、寻找展厅路径、在活动后提供有价值资源。可以从会展媒体办公室的Thos. Neureuter获得有关2010会展目录细节，索取申请表，而且，参展商可以通过<http://wire.media-entries.com>了解‘提早预定’优惠细节。

根据2008线材/管材会展期间、期后的普查，活动组织者杜塞尔多夫会展中心确认：将分开举行2010‘国际制造技术及自动化展览会(Metav)’会展和2010线材/管材会展，以便使线材会展拥有其传统的9到12展厅，紧固件技术在15和16展厅，弹簧制造在16和17展厅。

Messe Düsseldorf – 德国
传真: +49 211 45 6087 7793
电子邮件: wire@messe-duesseldorf.de
网址: www.wire.de

加盟QED

位于加拿大魁北克的QED Wire Lines Inc宣布：Andrew Banham将加盟其不断增长的设计团队。

十年来，Andrew运行其自己的机械工程设计公司，为汽车、纸浆和纸张以及其它各种行业服务。他是Ordre des Technologues Professionnels du Quebec的一名成员，也是一名合格的机械工程技术人员。

对于此项任命，QED的Bill Crowle说：“Andrew的知识和广泛的经验将是我们公司一项巨大的财富，我们期望用他的技能来进一步改进我们的产品生产装置。”

QED Wire Lines Inc – 加拿大
传真: +1 450 458 0200
电子邮件: sales@qedwire.com
网址: www.qedwire.com



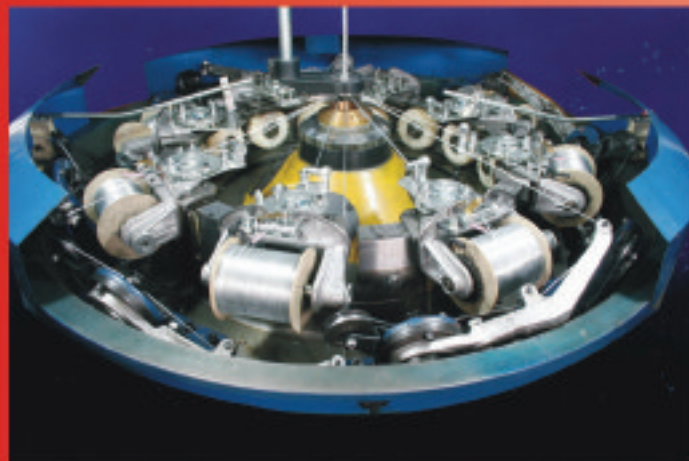
NYDG

上海南洋电工器材有限公司主要从事于电线电缆机械的设计和制造，现主要产品为编织机，绕包机，印字机。其中，编织机按编织线径由小到大分为：轻型、标准型、重型。



GSB-1Q型

GSB-1Q型16锭高速编织机是目前我公司的最新产品。该机型适用于编织极细丝，应用行业包括微型电脑，移动通讯设施，航天航空及军事领域等。该机型的主要技术指标达到国内领先水平，接近国际先进水平，每分钟转速范围0~120米，无极调速；由交流伺服系统控制牵引，编织节距可在2~60mm范围内以精度0.1mm无级任意选择；可编织0.03~0.05mm的极细铜丝；恒张力收放线机构确保编织过程中的张力均衡；机器工作噪音 ≤ 75 分贝。



GSB-Z系列

重型机方面，GSB-Z系列高速编织机主要适用于大直径、大长度线缆及管材的钢丝编织。GSB-1Z, 2Z, WGSB-3, WGSB-3B型（16锭，24锭，32锭卧式，36锭卧式钢丝编织机）的最大编织丝直径可达0.4mm*12股（钢丝）。最大编织芯线直径 ϕ 100mm。



绕包机系列

本系列产品可分单头，双头或三头绕包，绕包分为卧式或立式，是生产通讯电缆、控制电缆、防火电缆等专用设备。绕包盘最大转速可达1500r.p.m，绕包节距0.5mm~30mm，绕包盘最大外径 ϕ 300mm。绕包带可分为片式和筒式两种。

上海南洋电工器材有限公司

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Elmer 'Ace' Godwin 讣闻

当前首席执行官和总裁Elmer “Ace” Godwin于二月下旬去世时，IWCS首席执行官和总裁John Barteld写道：线缆业失去了一位具有传奇般人生的领导人和朋友。Ace作为一名电子学工程师，曾经在新泽西州蒙茅斯堡美国军用电子系统管理研究和开发实验室工作。1979年从军队退役后，Ace作为首席执行官/总裁加入国际线缆行业大会。Ace领导了IWCS23年，于2002年退休。

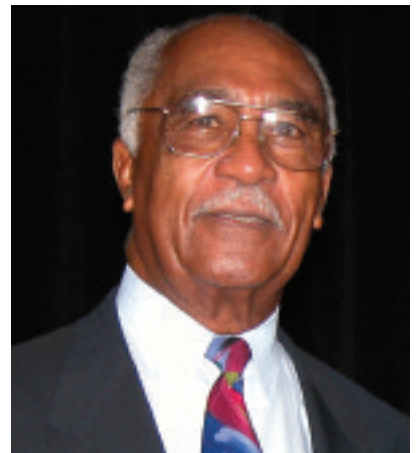
Ace出身寒微，来自弗吉尼亚的乡村，由祖父母在他们的农场上养大。他所受的教育始于其祖父母农场上实施种族隔离的校舍中的一间小屋，在那里，教育的价值深深地印刻在他的心中。最终，他离开农场，去接受进一步教育。Ace面对着这样的事实：即第二次世界大战前的一个实施种族隔离的国家。他在战争早期参了军，成为全由黑人组成的第223歼击机中队的一名“黑色轰炸机”飞行员。Ace在为国服役期间表现出色，在意大利服役期间荣获品行优良奖章和英勇勋章。

战争后，Ace继续追寻教育，先在蒙茅斯学院、后在鲁特格斯大学学习，并获得工程学士学位，然后，作为一名公民为美国军队工作。他在蒙茅斯堡遇到他

挚爱的妻子Corrynme，并于1946年结婚。Ace成为线缆工程领域的一名领先的国际学者和权威，为不断成长国际线缆行业大会（IWCS）做出了卓越的贡献。国际线缆行业大会总部就曾经设在蒙茅斯堡。在他为工业奉献的过程中、在他对技术进步的热诚中，他成为IWCS的领导是自然而然的。

Ace在新泽西州什鲁斯伯里养育家庭，他是积极的社区服务、教堂服务志愿者。在各种组织的清单中，显示了Ace奉献他很多的时间和服务，他总愿意为一件好事花费时间。他为国服务，得到了2007年国会金奖表彰，这是国家授予公民的最高荣誉。为了表彰Ace对教育的承诺，在他从IWCS退休后，鲁特格斯大学设立了一项学者基金，Ace的家人和朋友们鼓励人们以他为荣，向该基金捐款。详细情况请与IWCS办公室联系。

与其丰富人生极其相配的是，Ace与“黑色轰炸机”飞行员成员们一起出席了奥巴马总统一月份的就职典礼，新泽西州电视台播出了这段采访特辑，他到了自己漫长、有时又很艰难的生活历程，但他珍惜每一刻，他为自己个人生活和职业生涯的成就而感到自豪，为自己的国家在人人平等上所达到的成就



○ 整个工业界悲痛怀念Elmer 'Ace' Godwin

感到自豪，而且更重要的是，为他温暖和挚爱的家人和大量的朋友感到自豪。我们都极其怀念他。从个人角度讲，我有幸认识Ace仅六年，但Ace一直“看着我”在IWCS的工作，他要是知道我在伊顿镇办公室时，总是过来跟我问好，聊上几分钟。他对IWCS的成功充满了兴趣，总是给予善言忠告或在艰难时给予鼓励。我非常怀念他！

IWCS - 美国
 传真: +1 732 389 0991
 网址: www.iwcs.org

Shanghai Shenchen Wire & Cable Equipment Co., Ltd. is a specialized manufacturer of cold welding machines and moulds with strong R&D, production and marketing capacities. We are committed to supplying customers with good products at low cost but better service. Moving forward constantly and progressively, we have been bridging the industrial gaps in China that has shaped us into the leading supplier of the industry.

Product Applications
 Copper (Cu) wire: Ø0.06mm-Ø15.0mm, Aluminum (Al) wire: Ø0.06mm-Ø25.0mm
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Shanghai Shenchen Wire & Cable Equipment Co., Ltd.
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170型电焊机 60A-170a



170A型电焊机 60A-170a



AC200电焊机 200A



AC200电焊机 200A



1200A电焊机 1200A

上海市辰线设备有限公司地址: 上海市杨浦区控江路1029弄(国科大厦)1号楼1804室 邮政编码: 200093
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 Tel: +86-21-65199437 +86-21-65199438 +86-21-65187232 Fax: +86-21-65199430 Website: http://www.sch.chinacable.com.cn
 E-mail: sch@china-cable.com.cn

Nexans与Polycab签署合资企业合同

Nexans宣布与印度最大的电缆公司Polycab签署最终协议，创建一家由Nexans控股的合资企业，并与其印度合作伙伴紧密合作，对合资公司进行管理。

合资企业总部设立在Gujarat州Vadodara，制造和营销造船、材料处理、铁路和风力发电业特种电缆。协议还包括生产本来想放在二期工程进行的高电压地下电缆。

Nexans亚太区执行副总裁Michel Lemaire说：“我们今天与Polycab签署了协议，我们与一个高质量的合作伙伴组成团队，以保证我们在印度市场的首个合资企业取得成功，在这崛起的经济持续发展中盈利。而且，我们立即扩展我们的协议范围，将高电压电缆包括在内，这应当使我们能在印度这个不断发展的电力基础设施市场中取得强劲的市场地位。”

合资企业的实业部分将立即开工，包括建造新型的电缆生产装置，建设时间为18到24个月。

Polycab目前的销售额超过6亿美元，在电力和建筑电缆制造业有12家工厂和3,500多名员工。

Nexans - 法国 传真: +33 15669 8484
 电子邮件: nexans.web@nexans.com 网址: www.nexans.com

MPI产品销往全球

MPI成立于1979年，生产高质量线缆设备，经历了30多年的持续发展历程，为线材、电力和通信电缆业做出了巨大的贡献。

令公司感到自豪的是：公司发展成为领先的设备制造商，其设备在印度、中东和欧洲的电缆工厂中投产成功。制造范围包括线拉伸设备、刚性和行星绞缆设备、线材、条/带铠装设备、鼓式对绞设备、铺设和卷绕设备、以及电缆护套设备。

MPI最近收到来自中东电缆公司的大批订单，向他们供应各种电缆制造设备。

MPI Machines Ltd - 印度
 传真: +91 751 2366974
 网址: www.mpigwl.com

Braude任命其在印度的代理

E Braude (London) Ltd出席了2008年11月的印度线缆会展，展示其腐蚀性液体处理设备。Braude专业制造钢铁、许多化学和金属加工的浸渍工艺用高腐蚀性液体的加热设备。尽管在印度人们不太知道Braude，三十多年来，Braude却在英国、欧洲和世界其它区域的钢铁和金属加工领域声誉卓著。到展台的访问者对Braude设备表现出相当大的兴趣。

执行总裁David Snoxhill说：“这是公司第一次访问印度，这不仅说实力展示，也是一次促销。我们当然已经达到了第一个目标，而且确信了我们的观点，即印度是一个充满活力、令人振奋的市场，它在未来将变得越来越重要。我们还花时间访问了现有的一些客户，证明这种访问是很有用的。”

“经过访问，我们任命Amit Banerjee of Beam International为我们在工业钢铁、线材和管道领域的代理商。Amit已在这个领域工作多年，我们非常有信心，有了他们的经验，我们应当能使印度更多的公司关注我们的产品。”

E Braude (London) Ltd - 英国 传真: +44 1252 875281
 电子邮件: info@braude.co.uk 网址: www.braude.co.uk

Madem Gulf Industries开业

Madem Reels Group于2月8日在迪拜举行的中东电力会展中宣布了它的最新成员，位于巴林王国的Madem Gulf Industries WLL。

Madem集团销售总监Leandro Mazzaccato说：“我们的新装置将使我们在中东的运作得到简化，使我们客户的库存最低化，并使他们的后勤得到优化。我们对我们的制造装置取得显著成功抱有绝对的信心，而且，我们的中东客户也期望我们开车。生产将于5月份开始。”

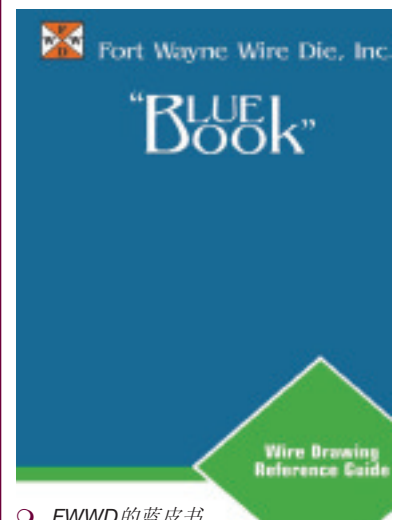
Madem Gulf Inc将在该月首先生产50卡车卷盘，到6月份增加到100卡车，第三轮产量还没有清点完毕。Mazzaccato说道：“我们仅在巴林的工厂月产量就能达到150卡车，我们又在海湾国家建设了一个生产装置。在过去的15年中，Madem赢得了我们忠实的阿拉伯客户的稳定支持，为15个以上的客户提供卷盘，占中东进口卷盘总量的80%以上。在当地建立新的生产能力后，我们希望增强我们在当地产卷盘市场的份额。”

Madem Reels - 巴西 传真: +55 54 3462 5900
 电子邮件: madem@madem.com.br 网址: www.mademreels.com

新版蓝皮书

Fort Wayne Wire Die Inc出版了它最新版线材拉伸参考指南蓝皮书，蓝皮书经过了全面更新，采用英文、中文和俄罗斯文。

据称，指南可使拉伸专业人士更精确有效地规定和采购其线材模具，拥有最新的孔径公差信息、聚晶钻石材料和尺寸、模具材料比较工具等。



○ FWWD的蓝皮书

其它内容包括线规图表、详细的线材模具技术图和命名、模具再切割选项、数学线材拉伸原理等，所有内容结构合理、组织有序，它通过一个合乎逻辑的选择过程来引导工程师。

Fort Wayne Wire Die Inc - 美国
 传真: +1 260 747 4269
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Eurolls新的战略行动

从兼并Team Meccanica开始, Eurolls集团在完成其拉伸和轧制工艺的合理化计划后, 于2008年11月30日将Team Meccanica业务纳入Eurolls SpA, 正式结束了它的这个项目。

为了增强这个战略行动的推力, Eurolls SpA同时购买了在Remanzacco (意大利乌迪内) 的一个新的大型工业建筑 (8,000平方米)。新的建筑将首先为Machinery公司提供用地。然后, 将使用附近的60,000平方米, Eurolls SpA总部和另外三个当地运作单元将迁到这里, 包括新的电气/电子公司。

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带材和织物

Hanyu Cable Materials Co Ltd成立于1982年, 从此, 一直致力于为电缆工业需求提供服务。

公司开始为遍布全球的电缆制造商、电源、数据、通信电缆材料制造商生产高强度聚酯无纺布。这种无纺布具有优异的性能 - 抗拉强度、厚度、防腐、无碱性、易于机加工, 广泛用于电缆扎带、生产半导体无纺布带和防水无纺布带。

自2007年以来, Hanyu Cable Materials Co开发出半导体屏蔽带、防水带、半导体/防水带、无卤素低发烟防火带、无纺布带和其它特种电缆带。

Hanyu Cable Materials Co拥有提供产品最佳控制的系统, 通过了国际认证机构的ISO9001:2000认证。

Hanyu Cable Materials Co - 中国 网址: www.hanyu-tapes.com



○ Hanyu Cable Materials Co的电缆带

Madem Reels 60周年庆祝

Madem SA成立于1949年, 公司刚成立时设在巴西南里奥格兰德州Bento Goncalves市, 有25名员工和800平方米场地。公司的第一个产品是盛酒和食品の木桶。Madem于1970年开始做出口业务, 两年后, 公司经历了一次重大的产品多元化 - 制造第一个木质电缆盘, 最终使公司成为相信是世界上最大的木质电缆盘制造商。今天, Madem在全球拥有800名员工和110,000平方米室内制造车间, 拥有12,000公顷 (30,000英亩) 松林、两个伐木厂、一个夹板厂和许多一流的自动化卷盘生产线。Madem是巴西最大的林产集团之一, 在美国、西班牙、罗马尼亚和巴林都有制造工厂。Madem每月生产大约500个集装箱的未组装木质电缆盘, 供应给40个国家的200多家客户。

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Simbaf Company在Saveh的21,000m²的工厂中制造电话和电源电缆。目前, 工厂不仅按照VDE-BS-ISIRI标准生产电力电缆, 而且还生产各种通信电缆, 包括埋地填充电缆 (BFC)、管道填充电缆 (CFC)、自承式电缆 (SSC)、室内电缆、同轴和护套电缆、防火和特定电缆 (SSC)。Simbaf拥有伊朗工业研究院的标准证书和荷兰DNV ISO 9002标准证书。

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BLM集团并购线材弯曲公司

BLM SpA总部位于意大利Cantù, 是管道弯曲和端面成型设备和系统的领先制造商。

BLM购买了Officina Meccanica Montorfano Sas, 自2009年1月13日起接管Montorfano, 从而增强了BLM在管道弯曲领域的技术, 使其拥有生产力极高的设备来弯曲线材、小直径棒材和管材、带材/型材和铠装加热元件。

四十多年来, Montorfano专业制造多重线材弯曲设备, 它于1965年获得其首个设备专利, 并于1979年推出第一台三轴计算机数控 (CNC) 设备。

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With the horizon brightening for the industry, Barcelona 2009 called on governments to focus on mobile broadband stimulus

The GSMA Mobile World Congress, held 16th-19th February in Barcelona, generated news galore. Incorporating the world's largest exhibition for the mobile industry, the huge event (formerly 3GSM World Congress) offered previews of an energy-saving Nokia phone with a sensor that detects and utilises natural light; from Samsung, the "Blue Earth" model with a solar panel on the back for charging; the Sony Ericsson "concept phone," made from recycled biodegradable components; the entirely recyclable "Renew" phone from Motorola, made using plastic from discarded water bottles; and very much more.

With their strong suggestion of a new market niche for environmental technologies, these are welcome developments for both the association's membership (representing more than 3 billion GSM and 3GSM connections worldwide) and its burgeoning cadre of ecology-minded customers. But, for some 50,000 attendees from over 200 countries, as for a much larger world audience of interested parties, very likely the best news produced by Barcelona 2009 is summed up in the title of the opening day address at the GSMA Leadership Summit: "Mobile Communications Is Uniquely Placed to Drive Economy Growth." Broadly, the thesis put forward by leading experts (from, among others, Ericsson, VimpelCom, Telecom Italia, Telenor, and China Mobile) is that, as the mobile industry is one of the few parts of the private sector currently capable of providing an economic stimulus, governments need to adopt policies that encourage more investment in mobile services and networks. Wherever possible, governments should seek to create a stable regulatory environment, while licensing spectrum on the right terms to encourage spending on network infrastructure and services.

Specific projections and recommendations include these:

- ① The release of new spectrum for mobile broadband services in 2009 will ultimately add the equivalent of \$211 billion to China's GDP (gross domestic product), and could add the equivalent of \$95 billion to that of India. The rollout of mobile broadband networks in the two countries will create hundreds of thousands of jobs, encourage new businesses across the value chain, improve productivity, and boost consumer spending
- ② It is important that governments allocate the same spectrum for mobile broadband services as those awarded by other governments in their regions. This harmonisation will allow the same devices to be used in several countries and enable manufacturers to achieve economies of scale that eventuate in lower prices for the end user
- ③ The switchover to digital television presents a once-in-a-generation opportunity to make low-frequency spectrum, in which radio waves travel long distances and better penetrate the walls of buildings, available for mobile broadband services. Of the 400MHz of low-frequency spectrum freed up by the move out of analogue television, 100MHz should be used for the rollout of cost-effective mobile broadband networks.

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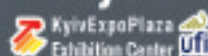


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Elsewhere in telecom . . .

© The first quarter delivered a pleasant surprise to Mediatek, the leading supplier of chips used in low-priced mobile phones sold in China. As a result of robust demand the Taiwanese company said it expected sales in the quarter to be some 8% to 13% higher than in the "dismal" fourth quarter of 2008. According to the Financial Times (London), the revision upward came as PC makers were reporting a surprise recovery in Chinese demand, suggesting that Beijing's efforts to stimulate domestic industry might be beginning to take effect.

As reported in telecomasia.net (5th March), Mediatek, the biggest chip design house in Taiwan, had in fact forecast a drop of between 8% and 16% in first-quarter sales. Cheng Ming-kai, head of technology research for the brokerage house CLSA in Taipei, was quoted as saying that Mediatek's sales had probably been boosted by China's plan to encourage spending in lower-income rural areas by subsidising purchases of hand-sets, among other select electronic products. Chinese state media have reported that Beijing has budgeted \$3 billion for such subsidies in the current year.

© Ericsson, of Sweden, has signed a three-year frame agreement with Indonesia's leading mobile operator Telekomunikasi Selular Indonesia (Telkomsel) to supply, deploy, and integrate GSM/EDGE and WCDMA/HSPA radio access networks (RAN) in Indonesia. The Swedish company said 4th March that Indonesia, with a population around 240 million, is seeing a growing demand for mobile voice and data services.

© According to China's Ministry of Industry and Information Technology (MIIT), the country will discontinue PHS, a low-end wireless phone service that once drew 100 million users, by 2011 to clear the airwaves for its homegrown third-generation (3G) wireless service, TD-SCDMA.

Under the new directive, a ministry spokesman said, the country's telecom regulator instructed

operators to clear spectra currently used for personal handphone system (PHS) service.

As reported from Beijing by Michael Wei, of Reuters, the move will affect two former fixed-line carriers, China Telecom and China Netcom, which previously used PHS (known locally as Xiaolingtong, or "Little Smart") as

a low-cost alternative to mobile services offered by China Unicom and China Mobile. China Netcom was merged with Unicom in a recent industry overhaul, giving the former access to the latter's wireless networks.

In the same restructuring, China Telecom received a license to directly offer 3G mobile services.

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移动行业前景渐明，2009年巴塞罗那展呼吁政府以移动宽带促经济发展

2月16日到19日在巴塞罗那举办的GSMA世界移动通信大会上新闻如潮。该大会系世界移动通信行业的最大展会(前身为3GSM世界大会)。大会上展出了配有探测和利用天然光能的节能型诺基亚手机、背部带充电用太阳能收集板的三星“Blue Earth”手机，采用循环可生物降解组件制造的索爱“概念电话”，采用废弃饮料瓶塑料生产的摩托罗拉完全可回收再利用“Renew”电话，以及更多的其它产品。

随着环保技术市场的勃兴，这些产品是大会的成员方(代表着世界各地30多亿线GSM和3GSM连接)以及环保意识萌生的用户的可喜的成就。不过，对来自200多个国家的5万家参展厂商来说，以及对更加广阔的全世界的利益相关群体来说，巴塞罗那展会带来的最好消息，就浓缩在开幕日上GSMA领导层峰会的致辞上：“移动通信致力于推动经济增长。”

从广义上说，来自爱立信、Vimpelcom、意大利电信、Telenor和中国移动的一流专家要表达的主题就是，移动通信业是为数不多的目前能够刺激经济增长的私营部门，政府应该采取政策鼓励移动服务和网络的更多投资。在可能的情况下，政府应该创建稳定的监管环境，并以合理的条件许可频段，鼓励网络基础设施和服务上的投入。

具体的预测和建议包括：

- ① 在2009年给移动宽带业务分配新的频段，可最终带动中国的GDP(国内生产总值)增长2,110亿美元，印度950亿美元。两个移动宽带网络的推出可创造数以万计的职位，促进沿价值链新业务的出现，提高生产效率，推动消费者支出。
- ② 各国政府应该为移动宽带服务分配相同的频段。这种统一性可以让相同的设备在不同的国家均能正常使用，还能实现生产厂家的规模效益，从而降低最终用户的使用价格；
- ③ 转向数字电视为分配低频频段给移动宽带服务提供了千载难逢的机遇。低频无线电波具有优异的长距离传输能力和更好的建筑物穿透能力。在模拟电视退出后空出的400MHz低频频段中，100MHz应用于推出高性价比的移动宽带网络。

这种做法带来的效益可举例说明。与目前常用的2100MHz频段的3G移动网络相比，使用700MHz频段构建的移动宽带网络的成本要低70%以上。这将使农村地区和“空白点”的移动宽带接入在经济上具有可行性。此外，提供移动宽带覆盖与安装新的固定宽带连接相比较，性价比要高得多。

2009年世界移动通信大会(前身为3GSM世界大会)具有广泛的代表性，与会代表不仅来自世界知名的移动营运商，还来自更为广阔的移动产业链的上下游：手机厂商、软件厂商、设备厂商、互联网公司，乃至媒体和娱乐企业。所有企业都在巴塞罗那展会上汲取了力量。

他们还得到了一系列的进军令，首要任务是说服各自的政府，让它们理解宽带、特别是移动宽带，能起到刺激经济发展的独特作用。如果这个消息能够得到重视，不仅仅是电信行业，全球的各行各业都有理由表示感激。

其他电信新闻...

- ① Mediatek一季度收获意外惊喜。Mediatek是中国销售的低价手机所使用的芯片的主要供应商。由于需求强劲，这家台湾公司预计一季度的销售额将比“低迷”的2008年四季度高8%到13%。据伦敦《金融时报》报道，这种扭转发生在PC厂商发现中国的需求令人意外的恢复之际。这意味着中国政府的国内行业振兴努力可能已经开始产生成效。据telecomasia.net 3月5日报道，Mediatek作为台湾最大的芯片设

计厂家，曾预计一季度的销售额将下降8%到16%。台北经纪公司CLSA技术研发部的负责人Cheng Ming-kai表示，Mediatek的销售可能受到中国刺激农村低收入地区消费的工作的影响。中国为农村地区的手机及其它指定电子产品的消费提供补贴。

中国官方媒体称今年中国政府将为这种补贴提供30亿美元资金。

- ② 瑞典爱立信与印尼主要移动营运商Telekomunikasi Selular Indonesia(Telkomsel)签订了为期三年的框

架合同，在印尼提供、部署和集成GSM/EDGE及WCDMA/HSPA无线接入网(RAN)。这家瑞典公司3月4日表示，拥有2.4亿人口的印尼对移动语音和数据业务的需求正日益增长。

Telkomsel将利用爱立信的移动技术来扩大现有的网络覆盖，增加容量，提升性能。新合同延长了两公司已有的业务合作伙伴关系。自1995年起，爱立信就成为Telkomsel的主要供应商，并在近期中标，为Telkomsel的2G和3G共存网提供使用移动软交换技术的核心网。

- ③ 由于来自固网和移动数据服务的收入强劲，意大利电信称其收入在2008年四季度基本实现翻番。净收入达到5.6139亿美元，2007年同期为2.8828亿美元。总收入为98.1亿美元，较2007年同期略降0.3%。

在表达意大利电信把重点放在意大利和巴西的核心增长市场上的意图时，意大利电信首席执行官Franco Bernabe于2月27日发言称：“我们去年第四财季取得的显著业绩使我们能够完成自己设定的目标。”

- ④ 安纳托利亚新闻社3月4日报道称营业额排名世界第一的移动通信公司沃达丰集团计划在土耳其增加500名雇员，并在今年把土耳其的零售网点增加到900个。

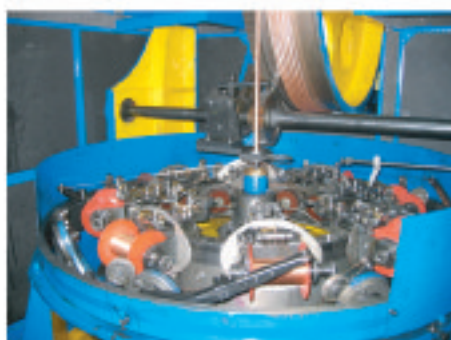
据土耳其报纸Hurriyet披露的消息，沃达丰土耳其公司的首席执行官Serpil Timuray否认了有关沃达丰集团可能出售土耳其公司的传闻。沃达丰土耳其公司在本地市场上的份额为19%。

- ⑤ 据来自中国工信部的消息，中国将在2011年停止小灵通——一种低端无线电话业务的使用，为中国自行开发的3G无线标准TD-SCDMA清频。小灵通在顶峰时期曾有多达1亿的用户。

根据新的规定，工信部发言人2月4日发言表示，工信部要求营运商清理目前供小灵通业务使用的频段。

据路透社记者Michael Wei从北京报道，这项规定将对以前的两个固网营运商产生影响。它们分别是中国电信和中国网通。中国电信和中国网通曾使用小灵通作为中国联通和中国移动提供的移动业务的廉价替代品。

在近期的行业重组中，中国网通已经与中国联通合并，这样中国网通就可以使用后者的无线网络了。Wei提到，在这次重组中，中国电信直接获得了一张可以提供3G移动业务的许可证。



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China and the US

A shift in Chinese spending habits highlights the significance of China's portfolio in US government securities

Keith Bradsher, who is Hong Kong bureau chief of the *New York Times*, has identified a trend that has important implications for Americans: the movement of Chinese money in a new direction – out of China. He observed, “Some Chinese are so eager to turn their yuan into other assets that, when an online real estate brokerage organized a tour of foreclosure auctions in the United States, it received so many applications that it had to turn away nearly 400 people.” (“In a Tidal Shift, Chinese Spending More Overseas,” 3rd February)

In Shanghai, Mr Bradsher noted, Chinese companies are buying high-yield bonds issued by distressed American companies at a time when most investors are standing well clear of the bond market. And Chinese companies overseas are sending home less of the money they earn from exports. Presumably they, too, are keeping a weather eye out for good deals in America.

China is big. And China is cash-rich. Therefore whatever animates the Chinese – even ordinary bargain-hunting – is important. But, at the same time that Chinese citizens are starting to send more money overseas, foreign investors are also pulling money out of China; and slowing the pace of new investment, as well. Taken together, these trends represent for Mr Bradsher “a potentially tectonic shift.”

The placement by Chinese individuals and companies of more of their money outside China would be bound to restrict China in its bankrolling of American trade and budget deficits – but not only that.

Beijing has at least two-thirds of its vast foreign exchange reserves invested in American securities, particularly the US Treasuries to which it has shown considerable loyalty over the years. With less income at its disposal, China would not be able to continue buying quantities of Treasuries, whose proceeds go toward funding US government programmes.

According to Mr Bradsher, analysts perceived “official ambivalence” in comments by Prime Minister Wen Jiabao on China’s intentions as to US Treasuries. What is certain is that both Mr Wen and US President Barack Obama have the keenest interest in the money leaving China. They will be trying to decide whether the trend will last; if it does, for how long; and what it might mean for the increasingly symbiotic relationship of their two countries.

- ❖ Of course, curtailment of the money flow into China could derive in some measure from Beijing’s decision to halt the rise of the yuan against the US dollar in July 2008, and even to allow a brief decline against the dollar in late November. Mr Bradsher noted that this removed the incentive for investors to put money into China in pursuit of currency gains. It also gave the US what it wanted: a freer-floating yuan. Like many answered prayers, this may have had unintended consequences.

Individuals are not the only Chinese stepping up their overseas investments. The official Xinhua News Agency said 25th February that China’s government pension fund plans to increase its holdings abroad this year. The National Council of the Social Security Fund, created in 2000 to manage reserves for China’s government welfare and pension systems, will “steadily increase” foreign investments from the current 6% of its \$82 billion in assets.

China was the final leg of Mrs Clinton’s first overseas trip in her new job, which included stops in Japan, Indonesia, and South Korea. Indira A R Lakshmanan, reporting from Beijing for *Bloomberg News*, noted the circumstances which enabled Mr Obama’s chief diplomat to be blunt – even forceful – in her advocacy for China’s continued fealty to Treasuries.

The US is the single largest buyer of the exports that drive growth in China, the world’s third-largest economy. China in turn has invested its surplus earnings from exports primarily in Treasuries. This has made it the world’s largest holder of US government debt: \$696.2 billion at the end of 2008, during which year China boosted its purchases of US debt by a whopping 46%.

Accordingly, Mrs Clinton felt able to make some bold but plausible assumptions about the mind-set of China’s leaders. They understand, she said, that “the United States has to take some very drastic measures with the stimulus package, which means we have to incur [more] debt.” The Chinese are “making a very smart decision by continuing to invest in Treasury bonds,” which she called a “safe investment” because a speedy US recovery will fuel China’s growth, as well.

Apparently, Beijing concurs. Shortly before her arrival in Beijing, the Chinese government said it would keep on buying Treasuries, with this caveat: future purchases will depend on the preservation of their value and the safety of the investment.

- ❖ China’s currency reserves of \$1.95 trillion represent about 29% of the world total, and the disposition of that much money must bulk at least as large in the thinking of China’s leadership as it does in the White House. Ms Lakshmanan called attention to an assessment by the financial services firm JPMorgan Chase & Co that bolsters Mrs Clinton’s case.

In a 6th February report, New York-based Chase predicted that China will keep buying US Treasuries “not only for the near-term stability of the global financial system, but also because there is no viable and liquid alternative market in which to invest China’s massive and still growing reserves.”

- ❖ “World events have given us a full and formidable agenda,” Mrs Clinton said 21st February at a Beijing press conference with Foreign Minister Yang Jiechi following a 90-minute meeting. “It is essential that the United States and China have a positive cooperative relationship.”

Amen – in all the languages of both countries.

Dorothy Fabian – Features Editor

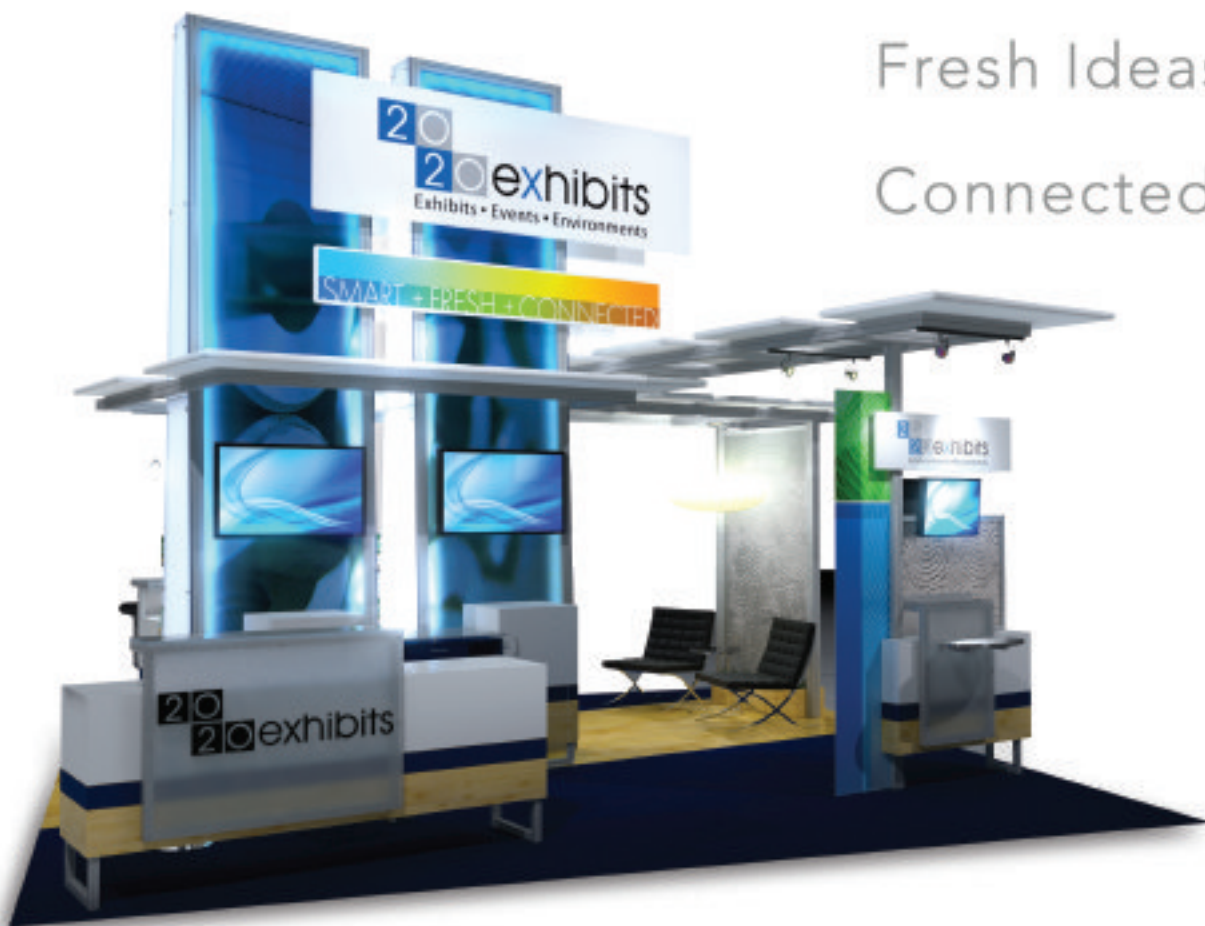
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中国和美国

中国海外投资投向变化，中国资金对美国政府证券意义非凡

《纽约时报》香港记者站站长Keith Bradsher发现了一个对美国人有重大影响趋势：中国的资金正在从新的方向流出中国。他称：“部分中国人非常急于把人民币资金转换为其它资产。某个在线房地产经纪组织了一次美国房地产抵押品拍卖会，有太多的申请报名，最后不得不刷下大约400个。”（见2月3日《潮流逆转，中国人在海外投资增加》）

Bradsher提到，上海的中国公司正在大口吃进陷入困境的美国公司发放的债券，而目前多数投资者对债券市场都敬而远之。中国的海外公司向国内汇入的资金也少于从出口中赚取的获利。很可能他们也看好美国市场。

中国是个大国。中国现金充沛。因此不管什么在激起中国人的热情，即便是寻常的抄底，也会掀起巨浪。不过，就在普通中国人开始向外汇出资的同时，外国投资者也在从中国市场抽身，同时放慢新投资的步伐。两者相加，Bradsher认为这些趋势体现出“可能的结构性的变化。”

普通中国人及中国公司把更多的资金投向海外会抑制中国背负美国贸易和预算赤字的能力。而且不仅如此。中国政府已经把外汇储备的三分之二投入到美国有价证券中，特别是美国国债。这些年来中国对美债券可谓是一往情深。在收入下降的情况下，中国将无力继续大量购买美国国债。美国国债募集的资金主要用于投资美国政府项目。

据Bradsher表示，分析人士认为根据温家宝总理的讲话，中国对美国债券的官方态度是“矛盾”的。不过可以肯定的是，温家宝总理和奥巴马总统对离开中国的资金都非常关注。

他们将力图判定这种趋势是否会持续下去；如果能持续，持续时间有多长；这种持续对两国之间日益具有象征性的关系的意义是什么。

- ❖ 当然，流入中国的资金的减少可以为2008年7月以来的人民币对美元停止升值政策提供某些支持，甚至在11月份让人民币小幅贬值。Bradsher认为这样可以消除投资者向中国注入资金以求货币增值的动机。同时，它还满足了美国的以下要求：更加自由浮动的人民币汇率。如同许多得到回应的祈福者，最终的后果是难以捉摸的。

- ❖ 值得注意的是，中国只是在近期才赶超日本，成为美国国债的第一大持有国。这也是美国国务卿希拉里亚洲之行非常关注的问题。中国在2008年9月成为美国国债的最大持有国，不过日本仍然名列第二，这一点奥巴马很清楚。

奥巴马的第一个“海外”之行是会见邻国加拿大的总理Stephen Harper，不过白宫到访的第一位外国官员则是日本首相麻生太郎。奥巴马的邀请函是希拉里在东京亲手交给麻生太郎的，同时她承诺“美日联盟是美国外交政策的基石。”

希拉里亮相北京电视节目，称：“我们休戚与共”

不仅是普通中国人在试水海外投资。官方的新华社2月25日表示，中国政府的养老基金也准备扩大海外投资。创立于2000年的全

国社保基金理事会负责中国的政府社会保障和养老金体系管理。该理事会表示，将把对外投资从目前总资产820亿美元的6%“稳步增加”。

如果希拉里方法得当，基金理事会的管理人员及其他有投资头脑的中国人，会在对外投资时，头一个想到美国，为奥巴马总统的经济刺激计划提供资金。

2月22日，希拉里在北京接受东方卫视电视采访时表示：“我们的经济已经密不可分”。如果美国不能为停滞的经济通过赤字开支注入活力，“中国也会受损”。（2月22日《希拉里敦促中国继续购买美国国债》）

中国是希拉里上任国务卿以来的首次海外出访的最后一站，此前她已经访问过日本、印尼、韩国。彭博新闻记者Indira A R Lakshmanan从北京报道称，由于形势所迫，希拉里在要求中国继续购买美国国债时，有些直言不讳，甚至咄咄逼人。

美国是推动中国经济增长的出口产品的最大买家。中国经济规模目前已位列世界第三。中国把出口获得的外汇主要投资于美国国债。

这样，中国逐渐成为了世界上最大的美国国债持有国：2008年年末达6,960亿美元。该年中国增持美国国债的幅度高达46%。

希拉里对中国领导人的心态进行了某些大胆且合理的推断。她说，他们知道“美国在推出经济刺激案的同时需要采取某些激进措施，这意味着我们必须增加债务。”

中国“继续投资美国国债是非常明智的举措”，她将此称为“安全投资”，因为美国经济的快速恢复也会促进中国的增长。

显然中国政府同意这一看法。就在希拉里抵达北京前不久，中国政府表示将继续购买美国国债，但提出了以下要求：将来的购买将根据国债的保值程度和投资的安全性来进行。

- ❖ 中国目前有1.95万亿美元的外汇储备，占世界总量的29%。如此大金额的资金运作问题对中国领导层的压力和对美国政府的压力几乎是一样大。Lakshmanan女士提醒大家关注金融服务公司摩根大通提供的评估。摩根大通对希拉里的做法支持态度。

在2月6日的报告中，位于纽约的大通预计中国将继续购买美国国债，“原因不仅是为稳定近期的全球金融体系，还因为没有其它地方可以为中国庞大的、继续增长的储备提供安全的、有足够流动性的市场。”

Lakshmanan女士认为，中国从美国国债进入风险更大的资产的多元化投资努力“并不顺利”。她报道称，自2007年半年以来，中国投资在美国私人投资公司TPG Inc、Blackstone Group和Morgan Stanley中的105亿美元已损失半数。

- ❖ 希拉里2月21日在北京先与中国外交部长杨洁篪会晤90分钟，然后在新闻发布会上说：“世界形势给我们开出了一个紧凑、艰巨的日程表。美国和中国保持积极的合作关系是必要的。”

祝两国关系一帆风顺。

专栏编辑: Dorothy Fabian

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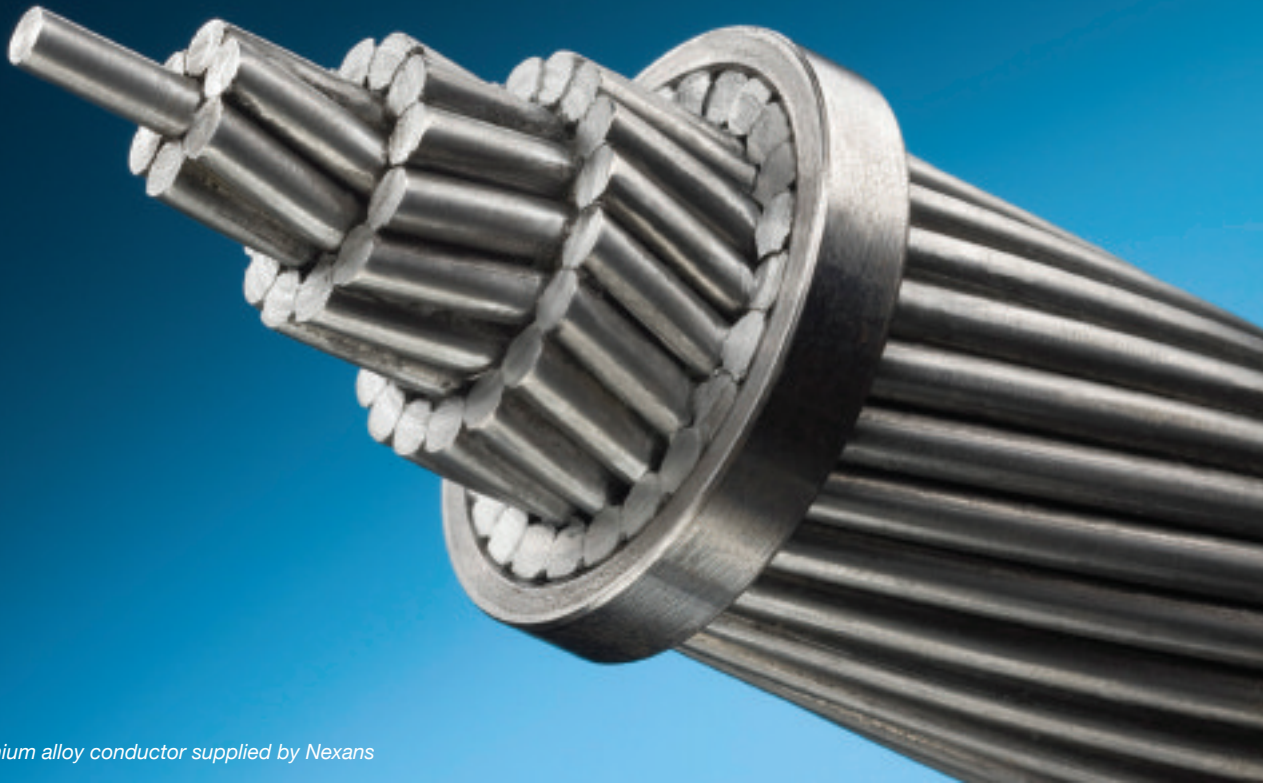
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Conductors to Brazil

Nexans has been awarded a €26 million contract by EBTE, the Alupar company responsible for the construction and development of the electric power infrastructure in the Brazil state of Mato Grosso, to supply AAAC (all aluminium alloy conductor) for the construction of five new 230kV overhead transmission lines with a total length of 775km.

The project (ANEEL 04/2008 group D) will provide additional transmission capacity to handle the output of a number of new power generation projects that will contribute to Mato

Grosso's economic development as well as increasing Brazil's national power generation capacity. AAAC overhead conductors replace the steel core and pure aluminium outer layers found in conventional ACSR (aluminium conductor steel reinforced) conductors with aluminium alloys.

This conductor is both lighter and stronger than ACSR, making it ideal for long spans, as well as being more resistant to corrosion. Using AAAC will enable EBTE to reduce the total number of pylons required for the project by around 8%.

Each overhead transmission line will comprise three phases, so Nexans will supply a total length of around 2,350km of conventional round wire AAAC with a cross-section of 456mm². The conductors, which will be manufactured at Nexans' Lorena plant in Brazil, are scheduled for delivery in the second half of 2009, while EBTE plans to begin operation in the second half of 2010.

Nexans – France

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...and fibre optic cable for the Caribbean

Nexans has been awarded a contract by Global Marine Systems, provider of submarine cable installations, to supply 1,300km of repeatered fibre optic submarine cable to connect the islands of Trinidad & Tobago to Suriname via Guyana.

The cable system will help enhance communication links between the three countries.

The 1,300km cable will be produced at Nexans' factory in Rognan, Norway and comprise 21 segments with amplifiers integrated every 70km.

It will be delivered to Global Marine Systems in October 2009.

Behind this next generation of repeatered fibre optic submarine systems are Nexans, Global Marine

Systems Ltd and Huawei Marine Networks, a Chinese manufacturer of telecom accessories.

"The latest repeatered optical cable is a major technological breakthrough that will enable us to deliver cables for any optical transmission range," says Yvon Raak, Nexans' chief corporate officer in charge of the Europe area.

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Components from wire

William Hughes Ltd specialises in making complex wire components and was recently asked to manufacture a threaded linkhook with many bends, for use in the diesel pumps used in lorries and cars. The small component is formed from a piece of wire just 117.4mm long and has to meet precise dimensional tolerances.

Based on a 2.6mm diameter length of annealed steel wire, the component passes through five different processes before it is ready for use. The first stage is to form a hook at one end and a chamfer on the other using a rotary table, six-stage blanking machine. The partly formed component then moves to a thread cutting machine where a 20mm long thread (4 x 40 UNC) is cut on the chamfered end.

The partly formed linkhook is then subject to a press bend and two hand bends to form the precise shape required before being case hardened in a special sealed quenched furnace.

The components are then checked for accuracy to the correct dimensions and specification using high technology inspection equipment.

William Hughes has been making bent wire components and springs for over 200 years and continues to expand its range of products, processes and finishes which now include shot peening, and the Delta® Tone and Delta® Seal coating processes. The company also offers an electrophoretic paint process, which provides the black, gloss finish popular in the automotive industry.

William Hughes has the technical resources to help its customers design and manufacture a range of bent wire components, as well as helping to solve a wide range of engineering and design challenges. A rapid design and prototyping service is available for wire products including springs and bent wire components. Quality systems to ISO 9001:2000, ISO/TS16949: 2002,



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Direct electrical heating system for subsea installation

Nexans has been awarded an €11 million contract by BP Norge to supply a direct electrical heating (DEH) system for the Skarv field subsea production pipeline in the Norwegian Sea. Nexans is believed to be the only supplier with experience of this technology and has already supplied this type of system for 17 subsea pipeline installations.

A number of methods may be used for maintaining flow, such as chemical injection, but DEH has proved to be both a reliable and eco-friendly solution to the problem.

Nexans will supply all cables and dedicated subsea equipment for the DEH system. The cables will be manufactured at Nexans' Halden factory in Norway and are scheduled for delivery in the spring of 2010.

Nexans – France
Fax: +33 15669 8484
Email: nexans.web@nexans.com
Website: www.nexans.com

Powder handling for coating systems

ECC 701 coating systems from Nordson Corporation provide precise process control for applying powders for high quality, reproducible cable coating. The system maintains an even flow of powder to consistently produce the desired coating thickness. The new dual-filter system and improved pump technology help reduce material usage, lower production costs and allow handling of abrasive materials.

ECC 701 systems fluidise and charge various powders, including talcs and superabsorbent powders (SAPs), to spray on to cable.

The systems precisely control all process parameters for repeatable coating, and parameters can be easily adjusted to meet changing application requirements.

Use of Versa-Spray® guns optimises performance of various powders using the corona process to charge powder particles. Versatile, industry-proven Versa-Spray guns process a wide variety of materials from talcs to abrasive substances such as SAPs.

The new dual-filter system recovers material not applied to cables and returns it to the hopper.



○ Handling system, ECC 701

This results in high transfer efficiency while also providing a clean production environment. The modular system design has flexible inputs and outputs for easy integration into existing production lines.

Nordson Corporation – USA
Website: www.nordson.com

MCVD system chosen by CGCRI, India

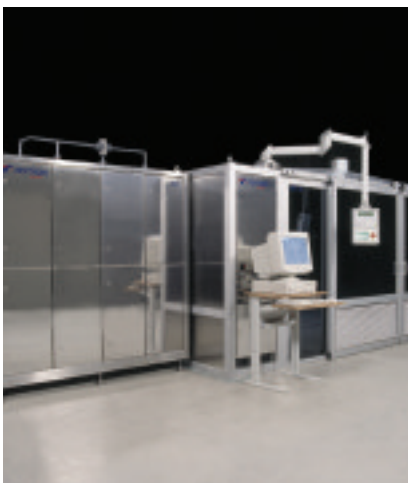
Nextrom Oy, a global supplier of optical fibre and cable manufacturing equipment, has been awarded with a contract from CGCRI, Kolkata, India to supply a Modified Chemical Vapor

Deposition (MCVD) and a rare earth vapour phase doping system for academic research and industrial research and development projects.

"Technical competence and reputation were big factors behind Nextrom's success," explained a spokesperson for CGCRI, one of the premier research and development organisations in India particularly devoted to glass and ceramics.

The Institute has around 600 employees, students and trainees and is actively working on a variety of local and international research projects including special glasses, optical fibres, electro-ceramics and Sol-Gel technology.

A number of major programmes have been initiated at CGCRI in key areas that include fibre laser, optical amplifier and grating-based sensors.



○ Nextrom equipment chosen by CGCRI

The Nextrom equipment is scheduled for installation before June 2009. The unit has many special features, designed and fabricated according to CGCRI's very specific requirements.

Nextrom Oy – Finland
Fax: +358 9 5025 3003
Email: info@nextrom.com
Website: www.nextrom.com

RoHS compliant colour range

Breen Color, a leading supplier of colour and performance additive concentrates to the wire and cable industry for thirty years, offers an expanded array of polymer colour concentrates – PVC, PE, PP, EVA, PVDF, FEP, ETFE, MFA and PFA. In addition, Breen Color has recently released the Ultralor EF zero-halogen product line specifically designed for high temperature, ultra-thin wall applications.

All of Breen's concentrates are offered in RoHS compliant and traditional formulations. Its range of performance additive concentrates includes UV, foaming, anti-oxidant and nucleating packages designed for use with PVC, PE, PP, EVA and fluoro-polymer systems.

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For accuracy in wire tensioners

High-throughput production machines attain speeds of more than 30m per second for wires of only a few hundredths of a millimetre in diameter. The forces applied to these wires are of the order of a few tenths of a Newton, and must be controlled very precisely. The task is complicated by the fact that the tension to be applied must be above the elastic limit of the wire (to give it rigidity) yet below its breaking point (to avoid any break leading to production shutdown).

At such speeds wire tension control cannot be applied at the feed coil, as its inertia is too high. The feed coil therefore remains static, and the wire is pulled by the tensioner and then wound onto the receiving coil. In these conditions the precision of tension control during coil winding is a major issue.

Other than technologies based on friction brakes of various levels of sophistication, which cannot handle large diameter wires, the solutions generally use motor control, but these are also generally limited to the

finest wires for reasons of space and budget limitations. However, future developments are tending towards larger wire diameters, for example in order to meet the high demand from China and India for power transformers, but also for more specific applications in the cable industry.

Altic has selected Merobel EMP brakes, from Redex Andantex, for its entire range of electrical and electronic tensioners. "We can only be pleased by the technical advantages provided by Merobel brakes for our most demanding applications," states Jean-Yves Petitgas, director of Altic. "Their flexible, jerk-free operation, the very low electrical power needed for their control, the torque density and the robustness of the brakes are indispensable qualities for us. The technology of Merobel's EMP brakes enables us to cover 100% of our current range."

The electromagnetic brake works on the following principle: a change in the magnetic field alters the viscosity of the EMP powder, controlling the

mechanical coupling between the inner and outer rotors. With this technique, the torque is proportional to the current that produces the magnetic field and is independent of the rotation speed. The torque/size ratio is better than for a friction-based mechanical solution: the torque is reliable and reproducible, without shocks, and the response time is rapid. Wear is also very low, giving a long maintenance-free lifetime. The design means that mechanical installation is generally very simple.

Altic uses the FAS and FRAS models (output-shaft brakes) for the smallest sizes and the FAT and FRAT models (through-shaft brakes) for the rest of the range. In addition, Altic fits Merobel PowerBlock2 power supplies in all cases, ensuring very precise electrical control.

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Finest dies for special purposes from Taiwan

Weilly Diamond Industrial from Taiwan has specialised in high quality PCD shaped dies for almost twenty years.

Weilly Diamond's controlled die geometry and excellent polishing of PCD shaped dies have developed a customer base spreading through America and Europe.

In addition to regular shaped dies, such as square, rectangular, hexagonal, triangular and trapezoid, Weilly Diamond offers irregular PCD shapes to individual customer designs.

The demand for thin rectangular PCD shaped dies has grown for PV ribbon, which is an important part for solar cell.

The thinnest PCD dies are available from Weilly Diamond.

Weilly Diamond Industrial – Taiwan
Email: weilly@ms5.hinet.net
Website: www.weilly.com.tw

Extended Xtra-Guard® range

Alpha Wire Company has extended its Xtra-Guard® product range with the addition of flexible motor supply cables. The latest addition will complement the existing, high-performance, variable frequency drive (VFD) product line and is designed for motor and drive applications requiring small outer diameter, flexibility and ease of handling as well as superior EMI/RFI shielding options using the company's Suprashield®.

Smaller, more flexible and less expensive than the VFD cables, the new motor supply range features a round geometry to facilitate environmental sealing, while the symmetrical design improves the electrical performance allowing the cable to exhibit uniform bending characteristics.

The cables employ Alpha's Suprashield® and have PVC nylon tape, four symmetrical drain wires and a specially formulated oil-resistant PVC jacket for extreme durability in the most demanding of environments.

As part of the Xtra-Guard range the motor supply cables incorporate Xtra-Guard's hazard matched, extreme

performance characteristics with an operating temperature range of -20°C to +90°C for static applications. The cables are available in gauge sizes from 16 AWG to 6 AWG.

The new range is RoHS compliant, and meets the required safety and installation ratings, including:

- UL Standard 1277, Type TC-ER, 90°C, 600
- UL Oil Res I
- UL Exposed Run (-ER)
- CSA AWM I A/B II A/B
- UL Standard 1063, Type MTW, 90°C, 600 Volt
- CSA FT4 Flame test
- UL Direct burial
- UL 1581 Vertical tray flame test
- UL Sunlight resistant

"Typically the new motor supply range will be used for AC drives and servo motors in applications such as medical or robotic," commented Dave Watson, director of engineering at Alpha Wire Company.

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Handling compounds for coverings

General Cable's research and development department develops materials for wire insulation and jacketing of power cables used in utility, petrochemical, gas, mining, nuclear and military applications.

According to technical services manager, Bruce Johnston, blending of thermoplastic resin pellets with solid and liquid additives for wire insulation compounds is a critical part of the development process. "We use a variety of thermoplastic resins, including LDPE, LLDPE, EVA, PP, CPE, and silicone, which we mix with peroxides to produce thermosetting (or crosslinkable) compounds," he explains. The insulating compounds are crosslinked to allow the cables to operate at higher temperatures than thermoplastic insulations.

To prevent high shear forces from degrading temperature-sensitive thermoplastics and/or melting the resin pellets, the team previously needed to start and stop its existing high-speed mixer repeatedly. They now utilise an MX-1-SSJ rotary batch mixer from

Munson Machinery that gently tumbles the material in a rotating drum. The unit has a volume capacity of 0.03m³ and weight capacity of 22.7kg, and can blend at 100% to 10% of capacity with equal effectiveness, enabling the team to vary its testing protocols.

Johnston's group had no first-hand experience with a rotary batch-type of mixer, but the staff of General Cable's Indianapolis compounds plant uses a 136kg capacity model, 700-TS-17. "Much of the decision came from the compounding plant's familiarity with the mixer," recalls Johnston.

MX-1-SSJ is from a line of miniature rotary batch mixers, ranging in capacity from 0.01m³ to 0.42m³, scaled-down versions of production-scale units ranging from 0.28m³ to 17m³ in capacity.

Designed for applications in laboratories and small production operations, it tumbles, turns, cuts, and folds its contents, minimising degradation of materials that are friable or sensitive to pressure and/or temperature.

"Sometimes we add new curatives," Johnston says. "We want as much flexibility as possible, to add different compounds that require different temperatures."

The team specified the mixer with a water jacket, allowing operation at temperatures to 93°C. "The constant exchange of material against the heated drum wall with no dead spots provides uniform heat distribution and eliminates the need for remixing," Johnston explains. "We benefitted from the unit's low shear mixing, which minimises frictional heat and the generation of fines, and from hydraulic tipping and an easy-to-clean interior.

"The particular value of the device stems from its ability to adapt to various batch sizes and temperatures while minimising unwanted shear, heat generation or material degradation."

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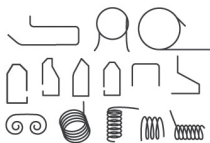


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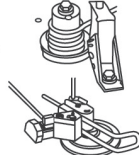
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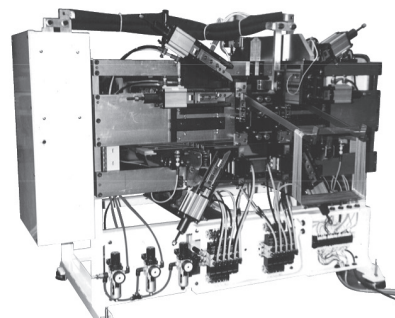


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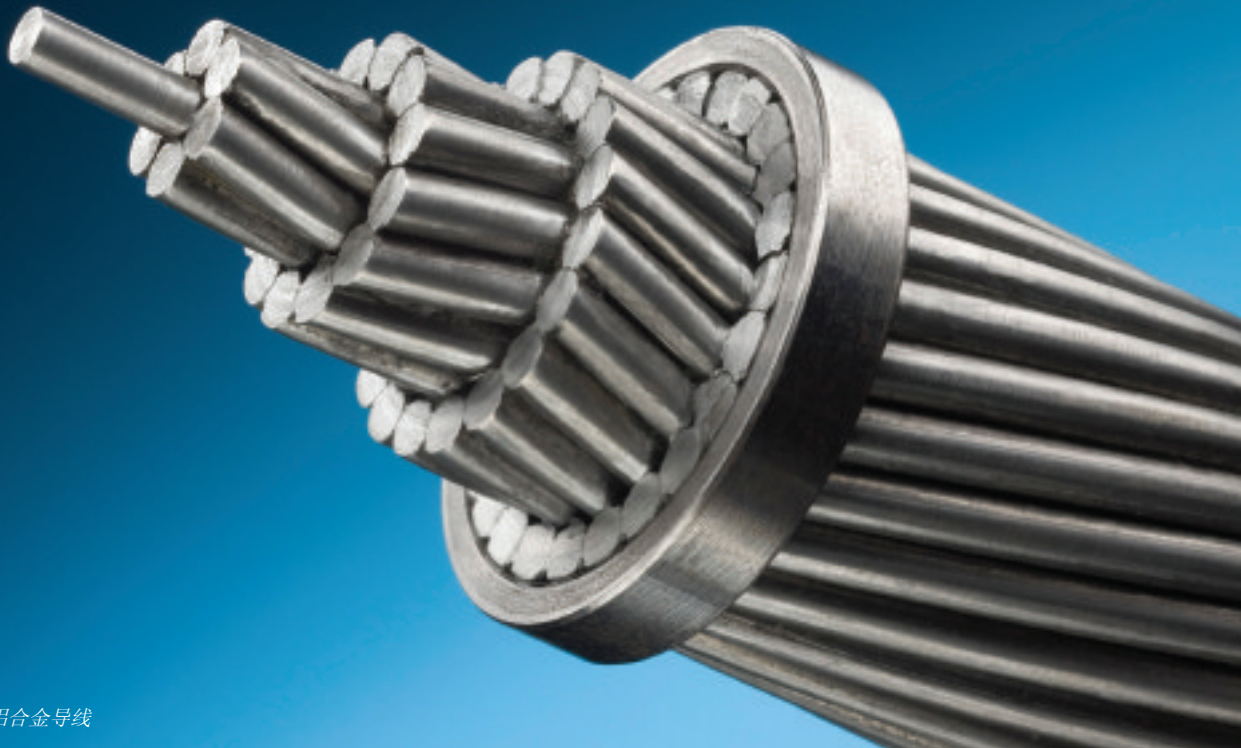
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○ Nexans 提供各种铝合金导线

用于巴西的导体

Nexans已被EBTE授予一项2600万欧元的合同，由Alupar公司负责建设和开发巴西Mato Grosso州的电力基础设施，为五个新的230KV高架输送线供应总长775km的AAAC(全铝合金导体)。

EBTE赢得了由巴西电力法律法规当局ANEEL公开招标的巴西中部Mato Grosso州的电力基础设施的建设项目。该项目(ANEEL 04/2008 D组)将提供额外输送能力，以处理许多新发电项目的输出，为Mato Grosso的经济做出贡献。该项目将增强巴西的国家发电能力，它包括五个新的300MW高架电力输送线：Juba-Maggi-Juina (447km)；Maggi- Parecis (106 km)；Nova Mutum - Sorriso - Sinop (222 km)。

“Mato Grosso项目是显示Nexans高架导体设计能力的典范，它提供了理想经济的解决方案，满足客户特殊的技术需要和安装进度，” Nexans南美区域执行副总裁Jorge Tagle说。

Nexans的AAAC高架导体用铝合金更换了传统ACSR(钢芯铝绞线)中的钢芯和纯铝外层。这种导体比ACSR轻，但更强劲，非常适合于长跨度，抗腐蚀能力更强。使用AAAC后能使EBTE降低8%的项目路标灯。

每个高架输送线由三个阶段组成，所以，Nexans将供应总长约2,350公里、横截面为456mm²的传统AAAC园线。由Nexans在巴西的Lorena工厂生产的导

体计划在2009年下半年交货，EBTE计划在2010年下半年开始投入运行。

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来自Breen的颜色

三十年来，Breen Color一直是线缆工业色母料和性能添加剂母料的领先供应商，它提供各种聚合物色母料 - PVC、PE、PP、EVA、PVDF、FEP、ETFE、MFA和PFA。最近，Breen Color又投产了Ultralor EF零卤素产品系列，特别设计用于高温、超薄壁应用。Breen提供的所有母料都按传统配方，符合RoHS要求。Breen的性能添加剂母料产品范围包括设计用于PVC、PE、PP、EVA和氟聚合物系统的抗紫外、发泡、抗氧化和晶核包。

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来自台湾的精细模具

来自台湾的Weilly Diamond Industrial专业从事高质量PCD模具将近二十年。Weilly Diamond受控模具的几何形状和PCD成形模具优异的抛光性能已拥有大量客户，他们分布在美洲和欧洲。另外，对于一般形状的模具，例如方形、矩形、六角形、三角形和梯形，Weilly Diamond提供不规则形状PCD模来适合每个客户的设计。最近，对薄矩形PCD模具的需求在不断增长，它们用于PV带 - 太阳能电池的一个重要组成部分。Weilly Diamond能提供最薄的PCD模具。

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在这样的速度下, 不能在进料卷上控制线材张力, 因为它的惯量太高。所以, 进线卷要保持静态, 由张力器来拉动线材, 卷在接收卷上。在这些条件下, 线材卷绕期间的张力控制精度是个主要问题。可考虑采用各种减速技术来控制施加在线材缠绕的主导轮轴上的力矩(没有滑移), 以产生卷绕张力。

在本文中, Altic选择了来自Redex Andantex的Merobel EMP刹车, 用于其整个范围的电气和电子张力器。“我们对Merobel刹车所提供的技术优越性感到非常高兴, 它们适合于我们最需要的各种应用。”

Altic总裁Jean-Yves Petitgas说: “对我们的质量来说, 它们的挠性、无冲击操作、控制的低电力需求、刹车的力矩密度和稳健性都是不可缺少的。Merobel的EMP刹车技术能使我们将其用于我们目前100%的产品范围。”

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处理用于电缆包覆材料的化合物

在General Cable的研发部, 一组物理学家、化学家、聚合物科学家和机械工程师正在开发接线产品的绝缘和护套材料, 并满足严格的标准要求和客户要求。小组依靠其Indianapolis Technology Centre开发用于公用工程、石化、气体、矿产、核技术和军事的电力电缆线材的绝缘和护套材料。

据技术服务经理 Bruce Johnston说, 热塑树脂粒子与固体和液体添加剂的混合成为线材绝缘化合物是开发工艺的一个关键, 而且, 技术部门在这方面确实遇到了若干挑战。“我们使用各种热塑树脂, 包括LDPE、LLDPE、EVA、PP、CPE和硅, 我们将它们与过氧化物混合, 产生热塑(交联)化合物,” 他解释道。绝缘化合物是交联的, 这样, 用它们生产出来的电缆的操作温度可高于热塑绝缘温度。

为了防止高剪切力降解对温度敏感的热塑和/或融融树脂粒子, 小组曾不得不反复开启和停止其现有的高速混合器。现在, 他们采用了Munson Machinery的MX-1-SSJ旋转批量混合器, 只要轻轻地材料倒入旋转即可。设备体积为0.03m³, 重量为22.7公斤, 在100%到10%的容量下, 能同样有效地进行混合, 从而使小组能改变测试方案。

Johnston的小组当时没有使用旋转批量混合器的第一手经验, 但是General Cable的Indianapolis母料厂管理人员采用一个136公斤容量的700-TS-17型混合器。“许多决定来自母料厂对混合器的熟悉。” Johnston回忆道。

MX-1-SSJ源于一台小型批量旋转混合器, 其容量范围从0.01m³到0.42m³, 生产规模装置的下调能力从0.28m³到17m³。设计用于实验室应用和小型生产操作, 它倒入、转动和合拢其内容, 尽量减少对压力和/或温度脆弱或敏感的材料降解。“有时我们要添加新的固化剂” Johnston说: “我们希望尽可能具有灵活性, 以添加要求不同温度的不同化合物。”

小组要求混合器有一个水夹套, 允许在93°C下操作。“沿着加热桶壁进行稳定的物质交换, 没有死角, 提供均匀的热分布, 不必再混合,” Johnston解释道: “我们得益于设备低剪切混合, 它尽量降低了摩擦热和细颗粒产生, 我们还得益于它的水压倾倒和方便的内部清洗。设备的特别价值在于它能够适应各种批量尺寸和温度, 同时尽量减少不希望的剪切、热产生和物质降解。”

Munson Machinery Company – 美国

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Nexans获得新的DEH订单

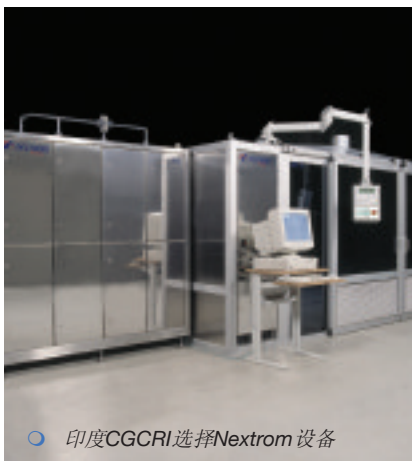
Nexans已被 BP Norge 授予一项1100欧元的合同，为挪威海Skarv现场的海底生产管线提供直接电加热 (DEH) 系统。Nexans是唯一拥有这种技术经验的供应商，已为17个海底管线装置提供了这类系统。

有许多可以使用的维持流动的方法，例如化学喷射，但是，DEH证明其本身是这个问题即可靠有环保的解决方案。Nexans将供应DEH系统的所有电缆和专用海底设备。电缆将由Nexans在挪威的Halen工厂生产，计划在2010年春天交货。

Nexans - 法国
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 电子邮件: nexans.web@nexans.com
 传真: www.nexans.com

CGCRI选择MCVD系统

Nextrom Oy是光学纤维和电缆制造设备全球供应商，已被印度的CGCRI, Kolkata授予一项合同，为科学研究和工业研发项目提供MCVD和稀土气相剂量系统。“技术竞争力和信誉是Nextrom取得成果的最大因素，”CGCRI解释道，CGCRI是印度的主要研发组织之一，专门研究玻璃和陶瓷。



印度CGCRI选择Nextrom设备

研究院约有600名员工、学生和受训者，积极从事于当地和国际的各种研究项目，包括特殊玻璃、光学纤维、电气-陶瓷和溶胶凝胶技术。已启动了关键领域的许多重大项目，例如纤维激光、光学放大器和光栅传感器。

计划在2009年6月之前安装Nextrom设备。设备有许多性能，按照CGCRI的要求进行设计和制造。

Nextrom Oy - 芬兰
 传真: +358 9 5025 3003
 电子邮件: info@nextrom.com
 网址: www.nextrom.com

用线材制成的元件

William Hughes专业制造复杂的线材元件，最近，公司被要求制造一种有许多弯曲部位的螺纹链钩，用于卡车和汽车的柴油泵。这个小元件用仅117.4毫米长的线材制成，而且必须满足精密的尺寸公差。



元件从一根2.6毫米直径的退火钢丝开始，通过5个不同的工序，才能制成。

首先，在其一端形成一个钩，再用旋转台、六段冲切机将其另一端倒角。经过部分成型之后，元件进入螺纹切割机，在倒角端切出一段20毫米长的螺纹(4x40UNC)。

经过部分成型后的链钩还要经过一次压弯、两次手工弯曲，以达到要求的精密形状，然后在特制的密封急冷炉中进行表面硬化。再用高技术检验设备检查元件精度，达到正确的尺寸和规格。二百多年来，William Hughes一直制造弯曲线材元件和弹簧，持续扩建其产品范围、工艺和精加工，现在，它们包括喷丸硬化、Delta® 调质和Delta® 密封涂层工艺。公司还提供电泳油漆工艺，提供深受汽车工业欢迎的黑色、光泽处理。

从一根退火的直钢丝到柴油泵用的链钩

William Hughes拥有技术资源，能帮助其客户设计和制造各种弯曲线材元件，解决各种工程和设计挑战。

为线材产品提供快速设计和原型机服务，包括弹簧和弯曲线材元件。质量系统达到ISO 9001:2000、ISO/TS16949:2002、最新的汽车标准和航天工业标准AS9100，保证产品质量的一致性和精度。

William Hughes Ltd - 英国
 电子邮件: sales@wmhughes.co.uk
 传真: +44 1963 363377
 网址: www.wmhughes.co.uk

涂层系统的粉料处理

Nordson Corporation的ECC 701涂层系统为高质量、可复制的电缆涂层的粉料喷涂提供精确的工艺控制。系统维持均匀的粉料流量，产生均匀的期望厚度的涂层。新的双过滤器系统和改进的泵技术帮助减少材料用量，降低生产成本，并允许处理磨料。

ECC 701系统流动和填充包括云母和超级吸收粉料 (SAPs) 在内的各种粉料，将它们喷涂在电缆上。系统精确地控制所有工艺参数，达到可重复地涂层，可以容易地调节参数，满足改变的应用要求。

通过采用电晕工艺来填充粉料，用Versa-Spray®喷枪能优化各种粉料性能。多用途、工业用Versa-Spray喷枪能处理从云母到磨料的各种材料，例如SAPs。新的双过滤器系统回收未涂在电缆上的材料，将其返回到料斗，从而达到高效的输送和清洁的生产环境。ECC 701涂层系统喷射室和泵的规格适合于各种工艺要求和材质。诸如材料流量监测数据和自动补充粉料的料斗之类的可选项，使系统为各种工业要求而定制。模块化系统设计具有灵活的输入和输出，以便于组合到现有的生产设备中。



Nordson涂层材料处理系统，ECC 701

Nordson Corporation - 美国
 网址: www.nordson.com

A row of industrial wire rope spinning machines in a factory setting. The machines are blue and white with orange accents. They are arranged in a line, receding into the background. The floor is green with yellow safety lines. The background shows a brick wall and a window.

Wire ropes for construction and suspension bridges

It seems likely that wire ropes enjoy greater visibility than any other wire and cable product. Since concealment is out of the question, architects and engineers have learned to make a virtue of necessity by utilising the huge sinews as design elements – with striking results. Wire rope suspenders and cables are in the visual vocabulary of anyone who has ever driven over a magnificent suspension bridge.

The new San Francisco Oakland Bay Bridge, now under construction and slated for completion in 2013, is a case in point. The distinctive single-tower structure will be the first suspension bridge designed without any connection between tower and deck. Its open secret: the 75mm and 90mm wire rope hangers connecting the tower with the floating bridge box girders.

The Bay Bridge will be beautiful to behold.

It will also carry some 280,000 vehicles daily – more than 102 million in a year. These extreme static load requirements will be met by the same wire ropes that trace the sublime profile of the world's longest single-span SAS (self-anchored suspension) bridge. The signature single tower will soar 525 feet. Access to its 2.56-foot diameter main cable will be by way of wire rope assemblies.

Aesthetic and serviceable, wire rope rewrites an architectural adage. Form follows function. It need not be subordinate to it.

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PC strand production

GCR Eurodraw designs and installs complete PC strand production plants. PC strand is used as a reinforcement material in pre-stressed concrete beams and other applications for the construction of concrete structures such as bridges and buildings.

A PC strand plant includes:

- The wire rod batch pickling and coating plant
- The wire drawing equipment
- The stranding and stress-relieving line

Pickling and coating is the first step in the production of pre-stressed concrete strand. This step is necessary to clean and coat the wire rod surface, so that it can then be drawn down efficiently and economically.

The plant is composed of wire rod storage stalls, followed by tanks containing the chemicals and rinse water to clean and coat the rod. An automatic bridge crane picks up the coils and dips them in sequence in a rinsing tank, a sulphuric acid tank, a zinc phosphate tank and finally into a lime coating tank.



○ PC strand production line

This environmentally friendly plant is equipped with all the fume abatement devices, acid regeneration and effluent water treatment equipment to assure that there are no hazardous emissions.

GCR Eurodraw SpA – Italy
Email: gcr@gcrgroup.com

Fax: +39 029354 0452
Website: www.gcrgroup.com

Coating for construction

Italian company, IFP manufactures patented steel wire and wire rod (galvanised and Zn/Al alloy coated). Top quality, and with a diameter range of 1.4mm to 16mm, cables and ropes are supplied to end users for offshore cable, bridge ropes and in high tensile structures.



○ Wire coils in a range of size and finish

The main plant includes two continuous lines from Belgium's FIB, with a patented heat treatment and lead cooler system; also pickling, phosphate and galvanising systems to suit the highest international technical standards.

The galvanising line can process rod diameters up to 16mm and wires up to 10mm with a wiping system using nitrogen calibration.

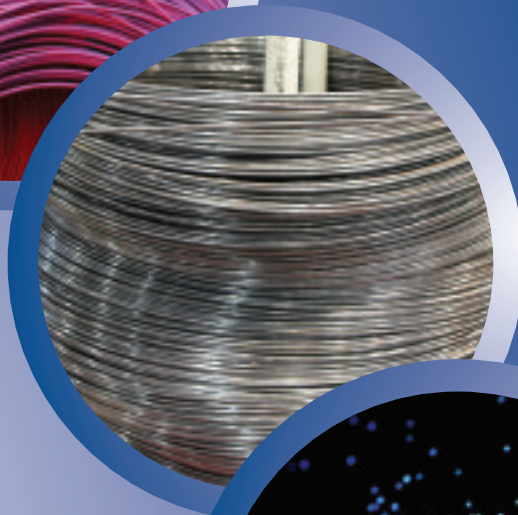
Final wire tensile strength can be higher than 2160Mpa.

Since 2007, IFP has used a Zn/Al (95% Zn / 5% Al alloy) coating for high wire corrosion protection on wires from 2mm to 8mm diameter.

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Testing in wire rope manufacture

Easydur has developed an optical system, capable of monitoring the production of strands.

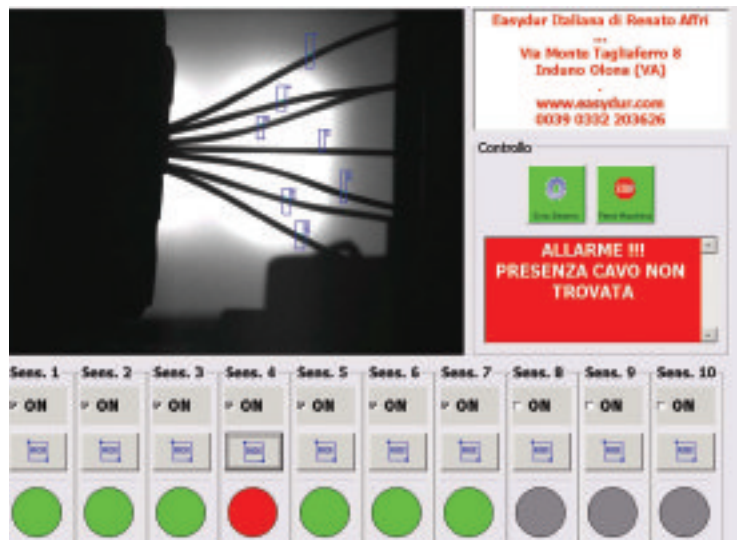
The system is incorporated into the production line to monitor the interlacing of cables. If one or more cables break, the system will stop the stranding machine.

Easydur also has a range of universal machines for tensile tests on cables, bars, chains, ropes and hooks.

All machines are equipped with computers and advanced software.

Easydur's optical system ►

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WireCo to supply bridge cables

WireCo WorldGroup has been awarded the contract for wire rope suspenders and cables to be used on the new San Francisco Oakland Bay Bridge.

The distinctive, single tower structure will be the world's longest single span, self-anchored suspension bridge.

The wire rope suspender and cables that WireCo will engineer for this project include 75mm and 90mm wire rope suspension hangers, which connect the floating bridge box girders and the tower.

As a result, it will be the first suspension bridge engineered to require no connection between the tower and the deck. In addition, the company will supply the hand rope assemblies that allow access to the 2.56 foot diameter main cable.

Using an elegant, futuristic design that mixes form with function, the new structure will carry daily traffic in excess of 280,000 vehicles or more than 102 million vehicles yearly.

The bridge's single tower rises 525 feet and the bridge connects the 1.2 mile elevated skyway viaduct from Oakland to Treasure Island with two, parallel roadways (each with five lanes) and a 15 foot wide bicycle/pedestrian path.

WireCo recently moved its corporate headquarters from St Joseph to Kansas City and operates a manufacturing facility in St Joseph.

WireCo WorldGroup – USA
Website: www.wirecoworldgroup.com

Wire ropes and cables

Seil-Baur GmbH is among leading German manufacturers of wire ropes, drive cords and hoisting devices. 150 years of manufacturing experience, coupled with continual investment in modern production systems, have placed Seil-Baur wires in a competitive position.



The Seil-Baur product range includes galvanised ropes, blank according to DIN and Nirosta; DRESBA elastic strap ropes; DBP special ropes for cranes and lifts; steel cables with plastic coating; wire suspension gear and rope/chain combinations.

The QM system of Seil-Baur GmbH is geared to the standards of EN ISO 9001 and is regularly checked in line with that certification. Individual requests and specifications are always welcome.

◀ *Cross-section showing wire rope construction*

Seil-Baur GmbH – Germany
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Email: info@seil-baur.de
Website: www.seil-baur.de

Patented die to draw pre-stressed concrete wire

The die, developed by Vassena, has a core that is well dimensioned compared to the holes; it is assembled in a fixed and immovable way in its compact casing in standard sizes.

The pressure die, with a cylindrical hole and pointed final section of hard metal, fits perfectly into the cone entrance of the die, permitting the removal of any lubricant solidification in the cone of the die during pauses in production. The particular structure of the pressure core guarantees efficacy and consistency to the lubrication. The support die provides stability and reduces vibration to the core; consequently there is less possibility of breakage and a reduction in wire vibration. Moreover, the system VG402 is equipped with a drain hole that permits any lost lubricant, perhaps caused by an excess of pressure, to return to the lubricant tank.




The operator can assemble die and pressure die quickly and easily without using special tools; the assemblage is completed with a light manual pressure of the two components. As the core is assembled like a standard die even the operation of reconditioning is made easy, allowing for the reuse of the system.

Using a reduction ring, die VG402 becomes a standard die.

◀ VG402 PC wire die from Vassena

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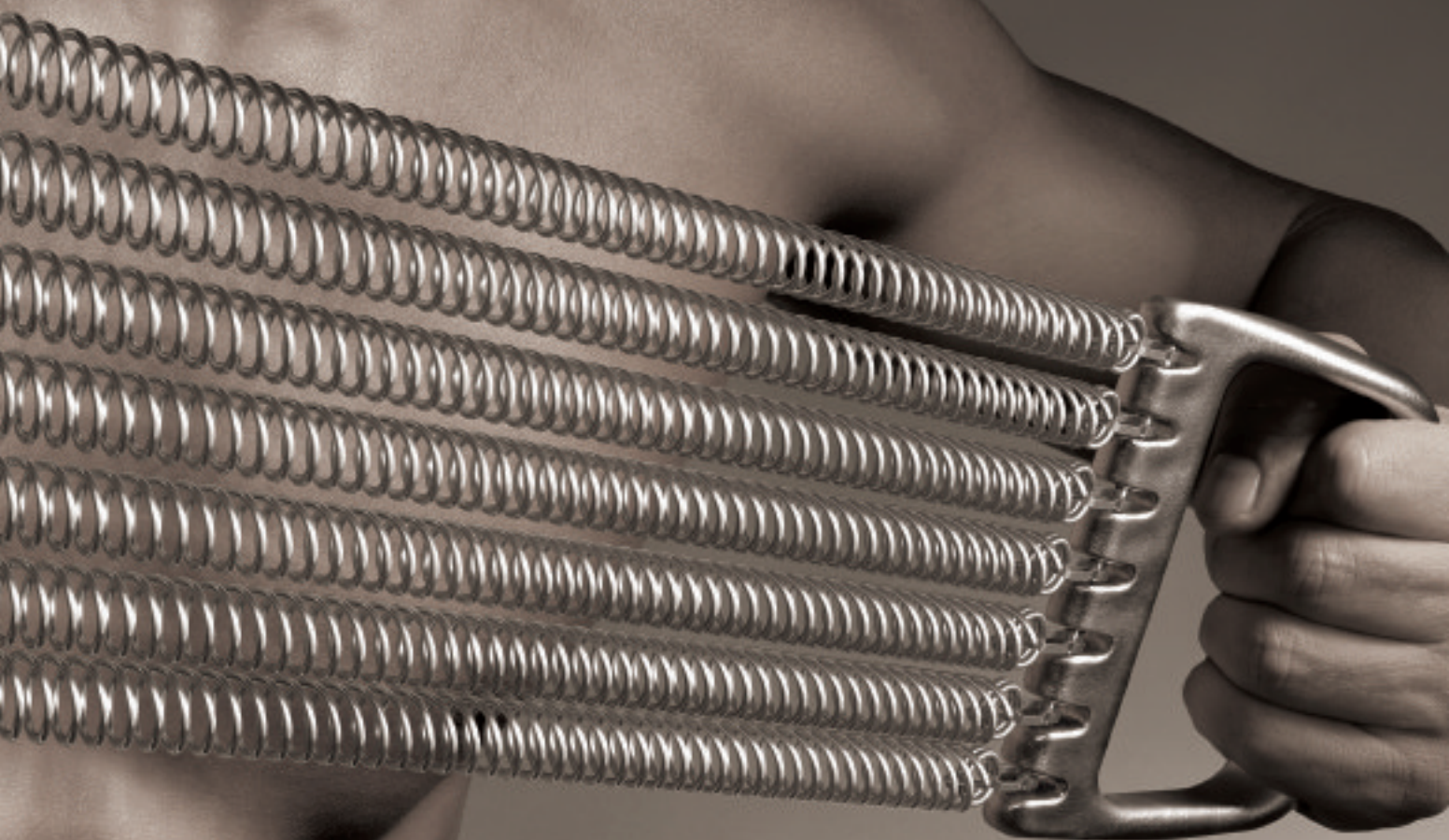
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GCR Eurodraw设计并安装整套PC绞合线生产工厂。PC绞合线被用于预应力混凝土梁和其它混凝土结构，如桥梁和建筑物的加固材料。

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- 拉丝设备
- 绞合和减压生产线

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这种环保性工厂配有烟雾消减装置，酸液再生和污水处理设备，以确保不存在任何有害排放物。

GCR Eurodraw SpA – 意大利
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 网址: www.gcrgroup.com

WireCo公司提供桥梁用线缆

WireCo WorldGroup公司已赢得了提供吊索和线缆的合同，用于建造新的旧金山奥克兰海湾大桥。这座独特的单塔结构将是世界上最长的单跨、自锚式悬索桥。WireCo公司为这一项目设计的钢丝绳吊索和线缆包括：75毫米和90毫米钢丝绳吊索，用于连接浮桥箱梁和桥塔。因此，这将成为世界上第一座桥塔和桥面之间无需连接的悬索桥。

采用将形式与功能融合在一起的优雅和前卫的设计，新桥将足以承载每日超过两万八千辆或每年超过一点零二亿的交通量。该桥的单塔高525英尺，桥体连接长1.2英里长的从奥克兰通往金银岛的高架桥，高架上铺设两条平行的公路（每条5车道）和一条15英尺宽的自行车道/人行道。WireCo最近将其公司总部从St Joseph搬迁至堪萨斯城，但在St Joseph有生产设施。

WireCo WorldGroup – 美国
 网址: www.wirecoworldgroup.com

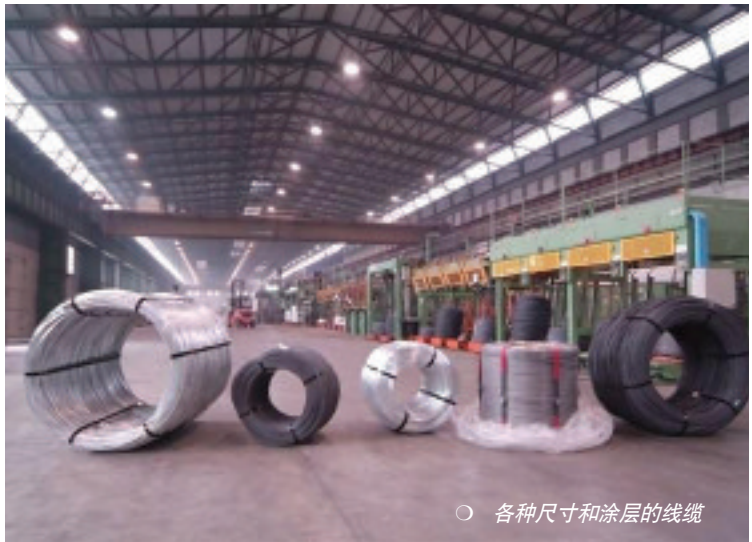
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喷涂

意大利IFP公司，制造专利钢丝绳和线材(镀锌和锌/铝合金涂层)。本公司为终端用户提供质量上乘直径1.4毫米至16毫米的线缆和绳索，用作近海线缆、桥梁缆索及高强度结构。

主工厂包括两套来自比利时FIB公司的连续加工生产线、专利热处理和导引冷却系统以及酸洗、磷酸盐处理和镀锌系统，以适应国际最高技术标准。镀锌生产线使用氮气校准清除系统，可以加工直径达16毫米的棒材和10毫米的线缆。成品线抗拉强度高可高于2160Mpa。自2007年以来，IFP公司已使用锌/铝(95%锌/5%铝合金)涂层，对直径2毫米到8毫米的线缆进行高强度防腐处理。

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○ 各种尺寸和涂层的线缆

用于预应力钢丝拉丝的专利模具

Vassena公司开发的模有一个比孔更规则尺寸的芯件，该部件以标准尺寸被固定在紧凑的外壳上。压力模具带有圆柱形孔以及由硬质金属制成的突出截面，与模具的圆锥体入口完全配套，允许在生产暂停期间清除模具圆锥体上的任何润滑剂凝固物。



○ Vassena公司的VG402 PC线材模具

操作者可以在不使用特殊工具的情况下，轻松并快速地装配模具和压力模具，只要用手给予两个部件少许压力，装配就可以完成。模芯可以象标准模具一样进行安装，甚至修模操作都变得轻松起来，并允许对系统进行重复使用。

Vassena Filiera Srl - 意大利
 电子邮件: vassena@vassena.it

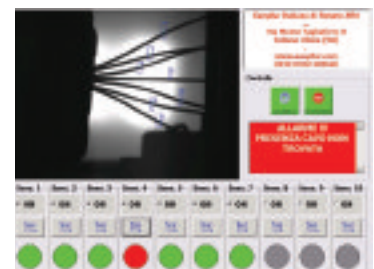
传真: +39 0341 583363
 网址: www.vassena.it

压力芯的特殊结构，可以确保润滑过程的有效性和持续性。支撑模具可以带来稳定性并降低模芯的振动；因此可以减少磨损和线的振动。

此外，VG402系统配有排放孔，可以使由于压力过大而产生的过量润滑剂回流到润滑剂储存装置中。

钢丝绳生产中的检测

Easydur公司已经开发出一种光学系统，能够监测绞合线的生产。该系统被并入生产线，以监测线缆的绞合过程。如果一条或多条线断裂，系统会使绞合机停止运转。



○ Easydur公司的光学系统

Easydur也有一系列的通用机械，用来对线缆、杆材、链条、缆索及钩状物体进行拉伸测试。所有机器都配备微机和先进的软件。

Easydur Italiana - 意大利
 传真: +39 0332 206710
 电子邮件: info@easydur.com
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钢丝绳和线缆

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传真: +49 821 720 7044
 网址: www.seil-baur.de

○ 显示钢丝绳结构的横截面

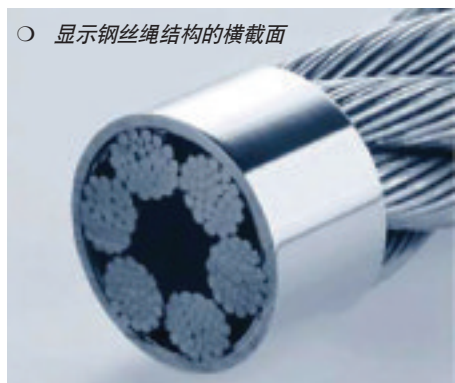




Photo courtesy of Tensitron Inc

Testing, measuring and control systems

“If it’s not accurate, it’s not measurement.”

The company making this declaration on its website is not in the wire and cable industry – but its cast of mind qualifies it for honorary membership.

Equally might this company assert that, if it’s not accurate, it’s not testing. Still less is it control. An inaccurate ‘control system’ in a wire making facility would be a chaos machine.

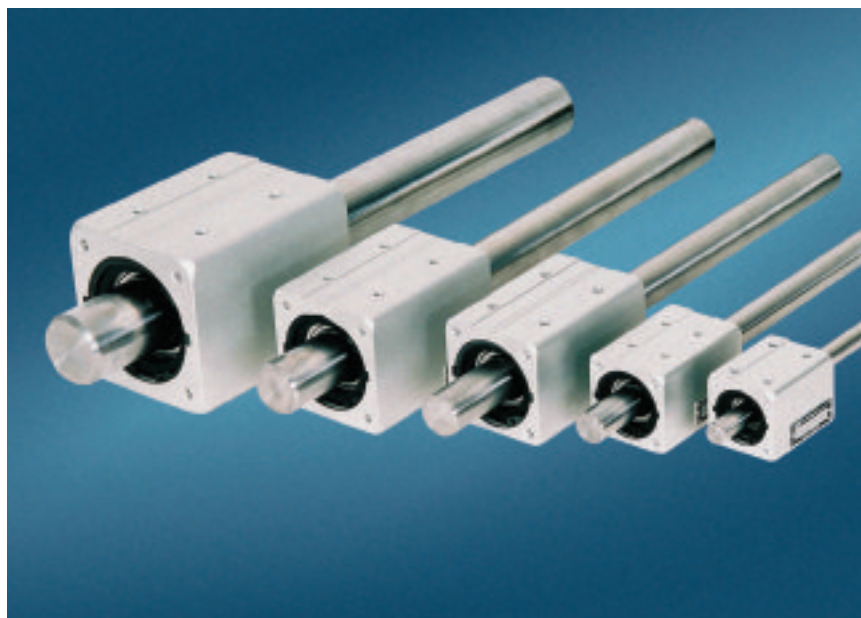
In fact a modern wire making line, running smoothly at high speed, without supervision and without incident, demonstrates what testing, measuring, and control are. They are the guarantors of precision, which enables the product to be certified free of imperfections.

The suppliers and service providers profiled here know that no other kind has a place in today’s hypercompetitive market.

Drive nuts for measuring machines

When developing its drive nut, Uhing conceived a non-positive linear feed element that is successful as a drive element in measuring machines. "The secret is its lack of play, a feature that is fundamentally inherent to the construction of the drive nut," explains Uhing's head of marketing, Wolfgang Weber.

Drive nuts have three or four rolling rings being alternately pushed against the surface of a plain shaft by spring force. These rings connect to the shaft by friction.



○ Uhing drive nuts for measuring machines

Skewing the rolling rings results in their rolling off on the surface of the rotating shaft at their pitch angle, thus generating a linear movement. This results in drive nut and shaft acting like a nut and threaded spindle, but without threads.

The spring force required to produce the frictional connection automatically reduces the theoretically existing play to zero, so there is no detrimental effect. The drive nut instantly translates the smallest back and forth rotation of the shaft into a movement to the left or right because there is no system-inherent play to overcome.

The pitch of the drive nut varies in relation to the actual shaft diameter, which is never constant over the entire stroke because the feed distance per shaft revolution depends on the shaft diameter and the pitch angle of the rolling rings. This is why there is no innate accuracy. For this reason, the actual position of the drive nut must be monitored with a precise length scale in a measuring machine, which is standard equipment in such machines.

"A release option, operated manually or pneumatically, is an additional advantage for tool adjustment devices," advises Wolfgang Weber. "Once the drive nut has been uncoupled from the shaft, literally meaning the shaft has been released, the tool or measuring instrument is quickly moved by hand. This prevents damage to delicate components during test sample exchange, and measuring as such is speeded up."

The Uhing drive nut is quiet when running and requires little maintenance.

Joachim Uhing KG GmbH – Germany
Email: info@uhing.com

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Website: www.uhing.com

Test system for titanium rod

Magnetic Analysis Corporation, a designer and manufacturer of nondestructive test systems for over 80 years, recently supplied a multi-test eddy current/ultrasonic system to inspect small diameter titanium bars and rods (2.54mm to 31.75mm).

Testing criteria was AMS-2631B, Class AA for the ultrasonic test (aerospace specifications) and typical eddy current inspection standards for the eddy current test.

By combining eddy current and ultrasonic technology in a comprehensive inspection system, superior test results can be obtained as each technique is used to detect the conditions that it is best suited to find.

This particular system incorporates Echomac® FD-4 ultrasonic instrumentation, an Echomac Rotary which spins the transducers and water couplant around the bar, and a MultiMac eddy current instrument and test coil.

The UT test uses one normal incidence and two shear wave transducers to inspect for surface and near-surface defects such as seams, spiral seams and light cracks as well as inclusions and deep voids.

The eddy current single channel test complements the UT test by detecting some very small surface seams or pitting that are poor reflectors of sound.

The test system also includes air operated dual pinch stands designed to drive and position the test material accurately, a slide and elevate platform to adjust the UT Rotary, a water recirculation system for the couplant, and automatic markers.

The system is mounted on a welded test bench and 'learn controls' are included to automatically adjust the timing based on the initial test piece.

Magnetic Analysis Corp – USA
Fax: +1 914 699 9837
Email: contactus@mac-ndt.com
Website: www.mac-ndt.com



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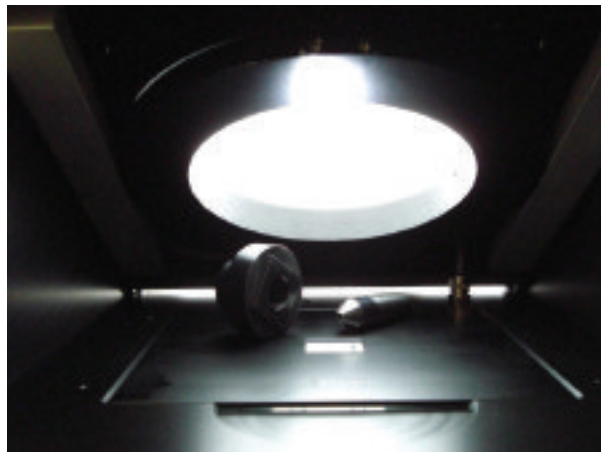
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HTTP: www.guanbiao.com EMAIL: info@guanbiao.com
402 Science Industrial Zone, Chiguan, Gaogang, 528221 China

Measuring cable samples

The latest product development from iIM corp, the fourth and revised version of the basic system of the VisioCablePro series, is suitable to carry out fast and precise geometry measurements of insulating skins and sheaths. Depending on the elected lens, the geometrical features of very small or very big cable samples can be measured. A wide range of single components (the user can choose between forty different types of objectives and eight different camera systems) enables the exact adaptation of VCPB-04 to individual measuring criteria and needs.



With high-resolution sensors and efficient lighting systems, the cable samples are well illuminated to eliminate shadows for optimal measuring results.

The new housing improves the measuring exactness not only because it creates

○ Measuring an extrusion die with VCPB-04

ideal system conditions for the illumination, the optics and the camera but also because it offers protection against blanketing light and stability against vibrations. The lighting adjustment, focusing and measuring procedure are completely automatic and thus exclude any user's influence on the measuring errors.

The measurements of cable samples are carried out according to the basic measuring norms: EN 50396 (VDE 0473-396), EN 60811-1-1, DIN 57472 (parts 401, 402), VDE 0472 and 0473 (parts 401, 402) as well as VDE 0276-605.

Additional options of the basic system are a template integrated in the corpus that allows the measuring of extrusion nozzles with a diameter up to 30mm and a USB jack that allows rapid connection to external devices, making the VCPB-04 very flexible. The system's software, FMK-2, guarantees the optimal evaluation of the obtained measuring results.

iIM AG – Germany
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Website: www.iimag.de

Measurement and flaw detection

LaserLinc has released a new model in its Triton line of triple-axis micrometers. The Triton360 has a 60mm measurement window and a maximum of 12,000 measurements per second (4,000 per axis).

The Triton360 is designed to provide more precise tracking of average diameter than two-axis micrometers, near-perfect ovality measurement, and improved flaw detection on opaque and clear products. The scanner can be used for pipe, cable, hose and other similar materials.

Two Triton360s can be arranged on a dual-mount stand to provide six axes of measurement, 30 degrees apart.

LaserLinc Inc – USA
Fax: +1 937 318 2445
Email: info@laserlinc.com
Website: www.laserlinc.com



○ Two Triton360 fitted onto a dual-mount

On-line range for accuracy and control

Zumbach manufactures a comprehensive range of non-contact, on-line measuring and control instruments. Zumbach technology is in use worldwide for such dimensional parameters as diameter, thickness and eccentricity, out-of-round and for physical or electrical parameters including expansion, capacitance and dielectric strength.

Zumbach technology, such as lasers/optics, ultrasonics, x-ray, high-voltage technology, computer hardware and software, is used in the cable and wire industry for telecommunication wire, data wire, power cable, electronic and control cable, fibre optic cable, on extrusion lines of singles and jackets, CV-lines and rewinding stations.



○ Complete range of on-line measuring and control instruments

Zumbach's numerous patents for measuring and control instruments include:

- Highly accurate diameter and ovality measurement with 1-axis, 2-axis and 3-axis laser scanners (ODAC®)
- Non-contact measurement of coating thickness with ultrasonic wall thickness scanners (UMAC®)
- Eccentricity/concentricity and diameter and true minimum wall measurement and control on high-speed extrusion lines with one only gauge (ODEX®)
- X-ray measuring systems for cross-section measurement in CV-lines (RAYEX®)
- Highly accurate capacitance measurement (CAPAC®)
- Foam/Foam skin CD-control (Cellmaster®)
- Integrated measuring/control systems for extrusion (Jacketmaster)
- Ultrasonic measuring and control systems for wall thickness with cutting edge digital technology (Wallmaster – UMAC® CI)
- Spark testers meeting all standards (AST, DST, IST) and calibrators
- Full circumferential detection of surface faults (KW TRIO, SIMAC®)
- Inductive conductor preheating with temperature control (Tempmaster)
- Non-contact temperature measurement of wires (AUTAC)
- Easy to understand operator interface concept via CRT display (USYS 200, 2100, 8100)
- Non-contact oscillating and static measuring systems for hot steel applications (Steelmater)

Zumbach Electronic AG – Switzerland

Fax: +41 32 356 0430

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Website: www.zumbach.com

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Upset testing equipment

Wire rod for cold shaping in accordance with EN 10263 and/or DIN 1654 has been tested for many years by standardised compression tests. From the European point of view the method is adequate when the test specimen is compressed by the ratio 1:3.

In the past year, Friedrich Petig GmbH has supplied what is believed to be the largest upset testing machine in the world, to date, to a Korean customer, Pohang Steel Corporation (POSCO).

POSCO rolls wire for cold shaping (cold heading) in many qualities to 1,200 N/mm² tensile strength. The largest diameter is 55mm. The machine consists of a double press, which is accommodated in a common framework. The wire to be examined is cut in a plane parallel manner to a length of 1.5 x diameter on the right press side with 3,500kN shearing force in a double shear tool. The test specimen is then upsetted to a third of the initial length on the left press side with 6,000kN compression force.

In related photo documentation the upset test specimen is photographed all around from four sides, and displayed on a 19-inch screen. The cracks that may arise during the rolling process, which have become visible through the rolling, can thus be easily documented. A PC is installed for control support. The values in accordance with DIN and ASA, compression extent pre-selection, speed, and documentation can be entered here.



○ Petig's upset testing machine

Friedrich Petig GmbH – Germany
Email: info@petig.com

Fax: +49 2181 73108
Website: www.petig.com

Innovations in hardness testing

The latest developments in Zwick's ZHU/zwicki-Line provide a new system for classical and instrumented hardness testing. This fully automatic universal hardness testing system covers the Vickers, Knoop, Brinell, Rockwell, ball indentation and instrumented indentation methods.

The ZHU/zwicki-Line for instrumented indentation testing in the macro range covers a wide range of applications and features hardware and electronics precisely tailored to the requirements of hardness testing, guaranteeing high reproducibility. In addition to instrumented indentation tests to determine hardness and other material parameters, the ZHU/zwicki-Line can perform all the classical hardness testing methods used for metals.

Whichever method is used, the testing system records the load-indentation depth curve to provide additional material assessment.

The instrumented indentation test includes elastic and plastic deformations in order to obtain the elastic and plastic material characteristic values. The core of the testing system is a hardness measuring head, into which the measuring systems for test load and indentation depth plus an indenter with hold-down

device are integrated. For optical-based hardness testing methods to Vickers, Knoop and Brinell an add-on unit with measuring microscope is available.

This unit is motorised in accordance with the trend for increasing automation and reduction of operator influence, while indentation setting, microscope positioning and optical measurement of the indentation are all performed completely automatically.

The range of compound (XY) tables has also seen further improvements in support surface area, test load and travel. The new motorised tables are designed for test loads up to 250kg and have travel ranges up to 150mm x 50mm.

The range of applications covered by the ZHU/zwicki-Line has been expanded to include fully automatic Jominy testing to ISO 642 and ASTM 255. In the end-quenching (Jominy) test the hardness of steel is determined by performing a hardness profile test with the Rockwell (HRC) or Vickers (HV30) method on a prepared specimen.

Available from Zwick are motorised compound tables with appropriate Jominy tooling for three or five standardised specimens. Testing is carried out completely automatically with user-friendly testXpert® II software; the operator only has to enter the starting points and test sequence directions.

The system is suitable for use in research and development, production and goods inwards testing.

Zwick GmbH & Co KG – Germany
Fax: +49 7305 10200
Email: info@zwickroell.eu
Website: www.zwick.de



○ High end hardness tester for use in R & D

Measuring and control technology for increased productivity

Sikora's non-contact measurement devices cover a wide range of applications such as diameter, wall thickness, ovality and eccentricity measurements.



○ Centerview 8000 – Continuous online 8-point eccentricity, 4-axis diameter and 8-point ovality measurement

The systems, based on premium laser, LED, ultrasonic and X-ray technology, are suitable for production lines for LAN, RF, coaxial, telephone cables, cables with transparent insulation layers, automotive and building wires, optical fibres, jacketing and sheathing lines as well as CCV-, VCV-, MDCV- and SIOPLAS-lines.

All measurement systems offer calibration-free, reliable online measurement and control of the relevant product parameters.

The mean time between failures (MTBF), an indicator of the average rate at which equipment shows a repairable defect, is approximately 15 years for the diameter gauges of the Laser 2000 series, even under extreme production conditions.

Sikora AG – Germany
Fax: +49 421 489 0090
Email: sales@sikora.net
Website: www.sikora.net

Tension meter range

Tensitron Inc has announced the release of its new CX series of digital cable tension meters. Available in several ranges up to a maximum of 2,000 lb, these portable instruments are used to measure tensions in flexible constructions up to 3/4" in diameter.

Standard features include selectable tension values in lb, kg or Newtons, min/max running line values, automatic shut-off after 10 minutes of non-use, battery charge level, selectable back lighting and display refresh rates.



○ CX series tension meter from Tensitron

Up to ten calibrations can be programmed into the instrument to suit differently sized materials. Selecting the cable size from the menu will automatically adjust the instrument calibration.

Optional features include data-logging, RS-232 serial interface, analogue outputting and heavy-duty plastic cases. All models are supplied factory-calibrated with appropriate calibration certification.

Tensitron Inc – USA
Email: tensionmeters@tensitron.com

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Falcon TopScan AWM

Falcon Topscan AWM system is a vision inspection machine that allows fully automatic thickness measurement on insulating covers and non-metallic sheathings of electric cables. Developed by Falcon Instruments, TopScan AWM is the evolution of the profile projector or of the measuring microscope, achieving the following aims:

- Measurement objectivity
- Results repeatability
- Time and manpower saving
- Ease of use
- Conformity with CEI 20-34/1-1 and with the international normative

The system measures the thickness of insulating covers and sheathings, giving the single thickness measurement. The system is also capable of working with varying height cable samples and with a single parallel plane. This is made possible by a particular disposition of the camera. It also allows a double interfacing level with the instrument: the first level is for the line operators; the second one is for a supervisor or for those who are in charge of quality laboratories. All the systems of this product line have been developed using the criterion of the Falcon MMI user interface concept – press a button and measure.

The instrument has following metrological characteristics:

- Measurement repeatability: 1/4000 of the field of view. For example the repeatability of the instrument with a 20mm field of view is equivalent to ± 0.005 mm.
- Measurement reliability: 1/2000. For example, instrument reliability with 20mm field of view is equivalent to ± 0.01 mm.

Emmerre Srl – Italy Fax: +39 075 953298 Email: info@emmerresrl.com
Website: www.emmerresrl.com



○ The Falcon TopScan AWM available from Emmerre

International testing

Specialising in the design and manufacture of a range of enamelled wire testing equipment for the determination of mechanical, electrical, thermal and chemical features, Italian-based Rigon Instruments is announcing the introduction in the next few months of its new tangent delta tester.

The new tester is suitable for testing round and flat wire. It avoids the preliminary application of graphite, so saving costs and time, while maintaining simplicity of use and reliability. A full range of accessories is available. Based on the most advanced software platform, the tangent delta tester gives the opportunity to choose the language and to carry out tests according to the main international regulations or with semi-logarithmic scale or single point test.

The layout of the report page is fully configurable, allowing for the inclusion of the required comments.

Rigon Instruments Sas – Italy
Fax: +39 01124 80012
Email: rigon@rigon.it
Website: www.rigon.it

Online diameter inspection

Xactum intelligent laser micrometers, used as online diameter gauges in the Xploreline configuration, measure diameters quickly, accurately and easily.



○ Xploreline system from Aeroel

The XLS gauges are programmed with dedicated software and are complete with a display unit and a remote control. The system can be used to monitor the diameter online, measuring fast moving products to achieve a 100% inspection and to avoid any dimensional non-conformity.

The system from Aeroel can be used to measure diameter and position of the product in the measuring field; monitor average diameter and detect short diameter

flaws; or record the maximum and minimum diameter over a programmable length. An alarm sounds when out of tolerance measurements are detected. Exclusive Blistbuster software (on dual axis systems) detects repetitive flaws or blisters.

The advantages of the system are:

- Two instruments in one: diameter controller and flaw detector
- No scrap material: real-time inspection avoids rejects and complaints
- Savings in materials can give fast pay back on investment
- Full process automation
- More competitive products due to improved product quality where performance depends on its cross-section area (tensile strength, or electrical conductivity, for example)
- Quality certification: printed detailed reports demonstrate product quality

Aeroel Srl – Italy Fax: +39 0432 671543
Email: aeroel@aeroel.it Website: www.aeroel.it

Process control for metal cold forming

Since 1983 Eldes has been producing and installing real time control systems for metal cold forming, both cold headers and thread rolling machines. The systems are based on the measure of the force developed in the production process, by means of piezoelectric sensors applied to the sensitive points of the structure. It is thus possible to stop the machine if anomalies arise.

The instruments, with recently updated software and keyboard, are designed to be user-friendly and easy to use, with refined features of signal analysis and performances. They are available in black and white and in colour.

Eldes' project department is continuously working on further development of products and technology, on the improvement of the user interface and of



○ Helios 2K from Eldes

Based on top-level technology and experience, Eldes has developed a new generation of process monitoring: Helios 2K, supervises production in metal cold forming plants using single stroke multi-stations cold headers and two blow cold headers. Titanus 2F is the corresponding device for thread rolling plants.

measurement methods. Eldes can also supply dedicated systems for customised applications, in addition to the standard instruments.

Dedicated technology for production data collection (Prodac 2K) and dimensional measures acquisition systems (Themis) is also available.

Eldes snc – Italy
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Fax: +39 0685 3222
Website: www.eldes.net

Tension measurement

In the various processes of wire and cable manufacturing there are many parameters that are measured and controlled. Of these, tension is among the most important. The tension in wire or cable at the payoff and take-up points, as well as during common operations such as drawing, stranding or extruding, plays an influential role in process efficiency and product quality and performance. A lack of tension measurement and control can lead to product defects, substandard production levels and wasted money.

Tensometric's new electronic tension meter, Combi 490, offers precision across a wide measuring range – up to 1,000 N. The unit gives a digital display of measured values. It is small (operation is one-handed) and is easily threaded into the running material. Display damping can be activated, to give a stable and smooth display even during fluctuating tensile forces. At the push of a button the last indicated measured value is held.



○ The battery-operated Combi 490

Tensometric Messtechnik GmbH – Germany

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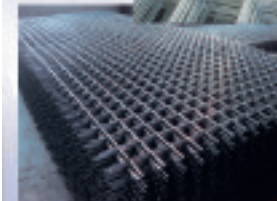


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测量和监控系统

提高生产率的测量和控制技术

Sikora的非接触式测量设备涵盖了广泛的应用范围，如直径、壁厚、椭圆度和偏心度的测量。

该系统以先进的激光、LED、超声波和X射线技术为基础，适用于LAN、RF、同轴和电话电缆生产线；带透明绝缘层的电缆、自动化和建筑用电线、光纤电缆以及绝缘层和护套生产线以及CCV-、VCV-、MDCV-以及SIOPLAS-生产线。所有测量系统提供免费的校准、可靠的在线测量和有关产品参数的控制。

Laser 2000系列直径测量器的平均故障间隔时间(MTBF)，既指示器显示的设备的一个可修理故障的平均值，约为15年，即使是在极端恶劣的生产条件下。

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○ Centerview 8000——用于连续在线8点偏心度、4轴直径和8点椭圆度测量



测量仪的驱动螺母

当开发驱动螺母的时候，Uhing设想了一个负值的线性进给元件可成功用作测量机的驱动元件。“机密在于其没有作用力，这一特点是设计驱动螺母的根本所在，”Uhing的营销主管Wolfgang Weber解释道。驱动螺母有三个或四个滚动环，依靠弹力轮流推动光轴的表面。这些滚动环通过摩擦与轴连接。倾斜滚动环使其在旋转轴表面以其螺距角进行滚动，从而产生线性运动。这样来引起驱动螺母和螺杆像一个螺母和螺纹主轴一样运动，但是没有螺纹。

弹力需要自动产生摩擦连接从而从理论上将现有的作用力减少到零，因此没有产生不利影响。驱动螺母即时将螺杆最小的来回转动转化成向左或向右的运动，因为此处不需要克服系统固有的作用力。驱动螺母的螺距根据实际的螺杆直径的不同而不同，这在整个行程中是不断改变的，因为每个螺杆旋转的进给距离是随螺杆的直径以及滚动环的螺距角而定的。这就是为什么没有固有的准确性。出于这一原因，驱动螺母的实际位置必须由测量机内安装的一个精确的长度规来监测，这是这种机器内的标准附件。



○ 测量机用Uhing驱动螺母

“一个释放选择，手动或气动操作，是用于工具调整装置的又一个优点，”Wolfgang Weber建议道。“一旦驱动螺母与螺杆分开，字面意思是说轴已被释放出来，工具或测量仪器用手迅速移动。这可以防止在交换试验样品时损坏脆弱的部件，这样测量速度也加快了。”

Uhing驱动螺母在运行时没有噪音，而且基本不需要维护。

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测量和探伤

LaserLinc在其三轴测微仪Triton系列发布了一种新的型号。

该Triton360有一个60毫米的测量窗口，最高每秒可完成12000次测量(每轴4000次)。Triton360设计用来提供比两轴测微仪更精确的平均直径跟踪、近乎完美的椭圆度测量以及对不透明的和清晰的产品提供更好的探伤检验。该扫描仪可用于管道、电缆、软管和其它类似材料。

两个Triton360可以安装在一个双工作台上用来提供6轴测量，两个仪器相距30度。

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国际检测

专门从事设计和制造一系列漆包线检测设备用来测定机械、电气、热力和化学特性以及基地建在意大利的Rigon Instruments公司宣布在未来几个月内推出其新的介质损耗测试仪。这种新的测试仪适用于测试圆形和扁性线缆。它避免了最初的石墨浸涂，以便节省费用和时间，同时保持使用简单和可靠性。还提供完整的配件。

基于最先进的软件平台，介质损耗测试仪可提供语言选择机会，并根据主要的国际标准或半对数标度或单点的测试标准进行测试。

报告页面的版面是完全可设置的，允许包括必须的注解。

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张力测量

在电线电缆各种制造过程中有很多参数需要测量和控制。其中张力是最重要的参数之一。位于收线和放线点以及在拉伸、绞线、挤出等一般操作过程中产生的电线或电缆的张力，对过程效率以及产品质量和性能有重要影响。缺乏张力测量和控制可导致产品有缺陷，生产水准低下以及浪费钱。



○ 电池控制的Combi 490

Tensometric新的电子张力计，Combi490，提供了广泛测量范围内的精确测量——高达1000N。该装置提供显示测量值的数字显示器。该张力计体积小(可单手操作)，可以轻易地穿入运转的物料。显示阻尼可以被启动，使显示即使是在波动的张力下也可保持稳定和顺利。推动按钮，记录下最终显示的测量值。

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Falcon TopScan AWM系统

Falcon Topscan AWM系统是一种可视检测机，可以全自动测量电缆绝缘和非金属外壳的厚度。由Falcon Instruments开发的TopScan AWM是由轮廓测定投影仪或测量显微镜发展而来的，可以实现以下目标：

- 测量的客观性
- 结果重复性
- 节省时间和人力
- 易于使用
- 符合CEI 20-34/1-1标准和国际规范

该系统测量绝缘和护套的厚度，并能提供单一的厚度测量。该系统还能够与不同高度的电缆试样以及一个单一的平行平面配合使用。这可以通过一个特定布置的摄影机来促成。



○ 由Emmerre 提供的 TopScan AWM

它同样还允许双接口界面与仪器连接：第一界面是提供给生产线操作工使用，第二个是提供给主管或者质量实验室负责人使用。该生产线的所有系统已根据Falcon MMI用户界面设计标准进行了开发——按下一个按钮并进行测量。

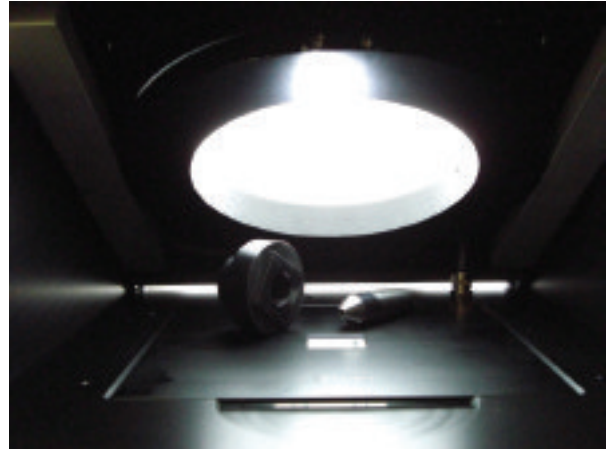
该仪器具有以下计量学特性：测量重复性：视场的 1 / 4000。例如 20毫米视场的测量重复性相当于± 0.005毫米。测量的可靠性：1 / 2000。例如20毫米视场的测量的可靠性相当于± 0.01毫米。

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电缆试样测量

由iim集团最新开发的产品，VisioCablePro系列基本系统的第四次改进版，适合于对绝缘皮和护套进行快速、精确的几何测量。依靠选定的透镜可测量出非常小或非常大的电缆试样的几何特征。一系列独立的组成件（用户可以在40种不同型号的物镜和8种不同的摄像系统之间进行选择）使VCPB-04可以根据个别的测量标准和需要来进行确切的改编。

高分辨率传感器和高效照明系统使得电缆试样照明条件良好无阴影从而得到最佳的测量结果。新的外壳提高了测量的精确度，这不仅是因为它提供了理想的系统照明条件、光学器件和摄影机而且还因为它提供防止阴影光的保护以及防止震动的稳定性。因照明调整、调焦和测量程序是全自动化的，从而可以排除用户对测量误差的任何影响。



○ 用VCPB-04测量挤出模

电缆试样的测量根据基本的测量标准进行：EN 50396 (VDE 0473-396)、EN 60811-1-1、DIN 57472 (parts 401, 402)、VDE 0472 and 0473 (parts 401, 402) 以及 VDE 0276-605标准等。

该基本系统另外可选的项目是集成在语料库里的一个模板用来对直径达30毫米的喷丝头进行测量，一个USB插口可以快速连接到外部设备，使得VCPB - 04非常灵活。该系统的软件，FMK-2，可保证对得到的测量结果进行优化评价。

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在线直径检测

Xactum智能激光测径仪，用作Xploreline结构的直径在线测量仪，可迅速、准确和方便地测量直径。



○ 来自Aeroel的Xploreline系统

这种XLS测量仪搭配专业的应用软件并具有配套的显示装置以及远程控制。该系统可用于在线监测直径，可测量快速移动的产品实现100%的检测以避免任何尺寸上不符合公差要求的现象。

该系统由Aeroel公司开发，可用于在测量领域测量产品的直径和位置，检测平均直径和短径缺陷，或者记录超过一段可设定长度的直径的最大值和最小值。当检测到超过公差的测量时会发出警报声。专用的Blistbuster软件（在双轴系统上）可发现重复性缺陷或气泡。

该系统的优点包括：

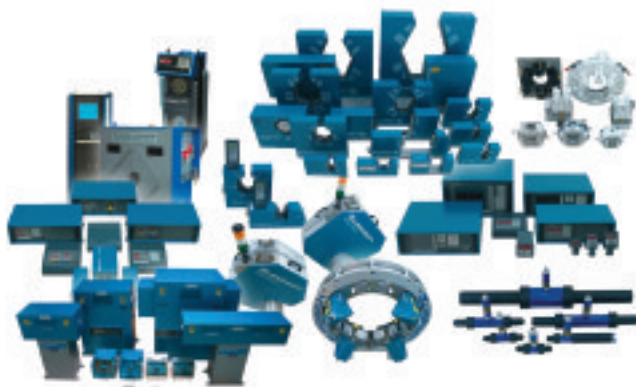
- 两个检测仪包含在一个系统内：直径控制器和探伤仪
- 无废料：实时检查避免不合格品和投诉产品
- 在材料上的节省可以快速的得到投资回报
- 过程全自动化
- 由于提高了产品质量使产品更具竞争力，特别是在产品性能取决于它的横截面的情况（例如抗拉强度，或电导率）
- 质量证明书：印制了详细的产品质量证明报告。

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在线测量系列用于准确性测量和控制

Zumbach生产一系列完整的非接触式在线测量和控制仪器。Zumbach技术在世界范围内使用，用来提供尺寸参数如直径、厚度和偏心、失圆度以及物理或电气参数包括膨胀、电容和绝缘强度。Zumbach技术，如激光/光学、超声、X射线、高电压技术、计算机硬件和软件等，用于电缆和电线行业的通信线、数据线、电力电缆、电气和控制电缆、光纤电缆，以及用于单层或多层挤出生产线、CV线以及复绕装置。



○ 完整系列在线测量和控制仪

Zumbach在测量和控制仪器方面的专利产品包括：

- 带单轴、双轴和三轴激光扫描仪(ODAC®)的高精准直径和椭圆度测量仪
- 非接触测量涂层厚度壁厚超声波扫描仪(UMAC®)
- 只用一个测量仪在高速挤出生产线上进行偏心/同心度和直径检测以及准确的最小壁厚测量和控制(ODEX®)
- 用于CV-线内截面测量的X射线测量系统(RAYEX®)
- 高精度的电容测量(CAPAC®)
- 泡沫、发泡皮试验和CD-控制系统(Cellmaster®)
- 用于挤出的综合测量/控制系统(Jacketmaster)
- 拥有先进数字技术的超声波测量和控制用于壁厚测量(Wallmaster – UMAC® CI)
- 满足所有标准(AST、DST、IST)的火花仪和口径测量器
- 全面的表面缺陷检测(KW TRIO, SIMAC®)
- 带温度控制的感应导体预热(Tempmaster)
- 线材非接触式温度测量(AUTAC)
- 通过CRT显示的易于理解的操作员界面设计(USYS 200、2100、8100)
- 非接触式振动和静态测量系统的热钢应用(Steelmater)

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金属冷成型过程控制

自1983年以来Eldes一直致力于金属冷成型用冷锻机和螺丝滚压机床的实时控制系统的生产和安装。该系统建立在对生产过程中产生的力的测量的基础上，通过压电式传感器用于结构敏感点。因此如果出现异常就可能停止机器运转。



○ 来自Eldes的Helios 2K

基于高水平的技术和经验，Eldes开发了新一代的过程监控：

- Helios 2K，采用单冲程多站冷锻机和两个低温冷锻机监管金属冷成型工厂的生产。
- Titanus 2F是螺纹轧制厂相应的设备。

该仪器带有最新的软件和键盘，设计为用户友好型和使用方便型，带有功能完善的信号分析和改进的性能。提供黑白两种颜色。

Eldes的项目部将继续致力于产品和技术的进一步开发，改善用户界面和测量方法。除了标准的仪器外，Eldes还可以提供专门的定制应用系统。

还提供收集生产数据(Prodac 2K)和尺寸测量数据采集系统(Themis)的专用技术。

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张力测量仪系列

Tensitron Inc公司已宣布推出其新的CX系列数字式电缆张力测量仪。可提供几种产品，最大测定能力可达2000磅。这些便携式测量仪用来测量各种结构的张力，最大测量直径可达3/4"。



○ 来自Tensitron公司的CX系列张力测定仪

该测量仪的标准特征包括可选择的以磅、公斤或牛顿为单位的张力值，最小/最大运行线数值，在不使用时10分钟后自动关闭，电池充电量，可选择的逆光照明和显示屏刷新率。多达10个的校准可以编入测定仪以适应不同尺寸的材料。从菜单中选择电缆尺寸将会自动调整仪器校正。可选的功能包括：数据记录、RS - 232串行接口、模拟输出和大型塑料外壳。所有型号均提供有适当校准证书的工厂校准。

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顶锻试验机

多年来冷成型线材一直按照EN 10263和/或DIN 1654标准进行标准化抗压试验。在欧洲人看来，这种方法在试样被压缩到1:3的比率时适用。

在过去的一年中，Friedrich Petig GmbH公司为韩国客户Pohang Steel Corporation (POSCO)公司提供了被认为是世界上最大的顶锻试验机。

POSCO的冷成型线材（冷锻）有各种性能，可达1,200 N/mm²的抗拉强度。最大的直径为55毫米。该机器由一个安装在共用框架里的双压力机组成。用精刨刀以3,500kN的剪切力将待检的线材在右压面切割成长度为直径的1.5倍的平面平行的样式。再用6,000kN的压力在左压面将试样顶锻成初始长度的1/3。

在相关的图片资料里，从四个面对顶锻试样进行了全方位的拍摄，并在19英寸的屏幕上显示出来。在滚压过程中可能产生的裂纹在整个滚压过程中变得清晰可见，从而可以很容易地被记录下来。安装一台电脑进行控制。这些数值符合DIN以及ASA标准，因此压缩长度预选、速度以及资料记录可以在此进入。

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○ Petig的顶锻试验机

硬度试验创新

Zwick公司ZHU/zwicki-Line的最新发明提供了一个新的系统用于传统的和仪表化的硬度试验。这种全自动通用硬度试验系统覆盖了Vickers、Knoop、Brinell、Rockwell、布氏硬度试验以及仪表化压入硬度测定法。

用于仪表化压入硬度测定法的ZHU/zwicki-Line在宏观范围内涵盖了一系列的应用以及性能，硬件和电子设备恰好与硬度试验的要求匹配，可确保较高的重复性。除了仪表化压入硬度测定法的测定硬度和其他材料参数外，ZHU/zwicki-Line还可以执行用于金属的所有传统的硬度试验方法。

无论使用哪种方法，该测试系统记录压入荷载深度曲线来提供另外的材料评估。该仪表化压入硬度试验方法包括弹性变形，以获得弹性材料特征值。

试验系统的核心是一种硬度测量头，其中集成了试验负荷和压入深度测量系统加上一个带压紧装置的压力器。对于Vickers、Knoop以及Brinell的基于光学的硬度试验方法，需要一个额外的带测量显微镜的装置。这种装置的机动化与不断发展的自动化趋势和操作者影响力的减少是一致的，同时压入法的设置、压入法的显微镜定位和光学测量都是全自动完成的。



○ 用于R & D的高端硬度试验机

组合工作台（XY）范围内已看出在表面条件、试验负荷和行程方面的进一步的提高。新的机动工作台用来进行试验负荷达250kg，行程范围达50毫米 x 50毫米的试验。

ZHU/zwicki-Line覆盖的应用范围已扩展到包括符合ISO 642和ASTM 255标准的全自动化Jominy试验。端淬试验中钢材的硬度由在准备好的试样上使用Rockwell (HRC) 或者Vickers (HV30) 试验方法进行硬度轮廓试验来决定。

Zwick提供的是带用于3个或5个标准试样的合适的Jominy刀具的机动复合工作台。试验过程全自动化，且带有用户友好型的testXpert® II软件；操作者只需要进入到起始点和试验顺序管理。该系统适用于研究和开发、生产和货物内部试验。

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钛棒检测系统

Magnetic Analysis Corporation公司，一家在无损伤检测系统方面有着80多年经验的设计和制造商，最近开发了一个多能涡流检测/超声检测系统用于检查小直径钛棒材（2.54毫米到31.75毫米）。检测采用AMS-2631B标准，超声检测达到AA级（航天技术标准），涡流检测要达到特有的涡流检测标准。

将涡流检测技术和超声波技术结合到一个综合检测系统中，可得到高品质的检测结果，因为每一种技术都可用来发现最合适的测试条件。这种特殊的系统包含Echomac® FD-4超声波检测设备、一个Echomac旋转体可使传感器和水耦合剂包围着棒材、以及一个MultiMac涡流检测仪以及检测线圈。

UT检测使用一个垂直入射和两个横波传感器来检测表面缺陷和近表面缺陷，如接缝、螺旋缝和轻微的裂纹以及夹杂和深的气泡。涡流单通道检测通过检测一些声音反射较弱的非常小的表面接缝或凹陷来补充UT检测。

该检测系统还包括用来精确地定位和驱动送入被检材料的气动双夹持装置、一个用于调整UT旋转体的升降台、一套用作耦合剂的循环水系统以及自动打标机。该系统安装在焊接试验台上，“学习控制”也包括在内，可在初步试件的基础上自动调整定时。

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Application

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6



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