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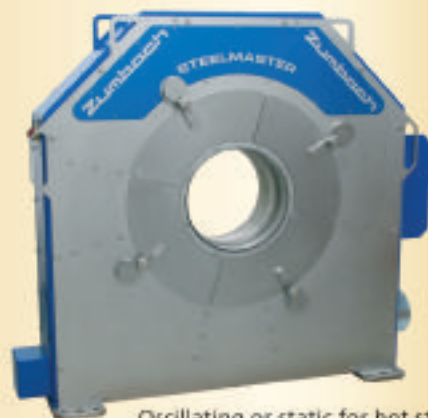


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For more details please call +49 911 51980,
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PS COSTRUZIONI MECCANICHE SRL - VIA DE CAIPTANEI 55/57 - 20041 AGRATE BRIANZA (MI) - ITALY
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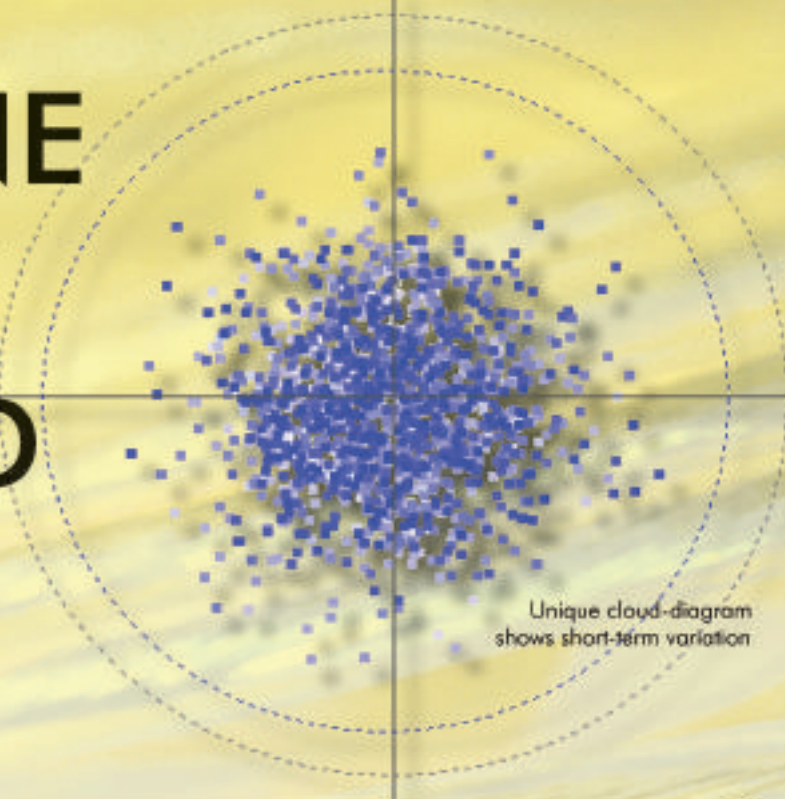
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Technical Articles

105 A novel aerial air-blown solution for FTTH networks using pre-terminated fibre and micro cables

By Anders Björk, Mårten Björs and Peter Lo Curzio, of Ericsson Network Technologies AB, Hudiksvall, Sweden; and Bill McGavin, Ericsson Communications Ltd, Auckland, New Zealand

109 采用预端接光纤和微缆的新式光纤到户架空气吹安装解决方案 作者: 瑞典Hudiksvall的爱立信网络技术公司的Anders Björk、Mårten Björs和Peter Lo Curzio以及新西兰奥克兰爱立信通信公司的Bill McGavin

Editor (编辑):..... David Bell
Features Editor – USA
(专栏编辑 – 美国):..... Dorothy Fabian
Editorial Assistant
(助理文字编辑):..... Christian Bradley
Design/Production (设计/制作):..... Julie Tomlin
Production (制作):..... Lisa Benjamin

Translation (翻译经理):..... Tony Zhou
 Jianye Yang

Sales Manager (广告销售经理):..... Paul Browne
Advertising/Marketing:..... Giuliana Benedetto
(广告/营销):..... *Italiana speaking sales*
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Advertisement Coordinator
(广告联络人):..... Liz Hughes
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Publisher (发行人):..... Caroline Sullens
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Europe (欧洲)
Advertising/Marketing & Editorial
(广告, 营销及编辑部)
 46 Holly Walk, Leamington Spa
 Warwickshire CV32 4HY, UK
 Tel (电话):.....+44 1926 334137
 Fax (传真):.....+44 1926 314755
 Email (电子邮箱):..... intras@intras.co.uk
 Website (网站):..... www.read-wca.com

USA (美国)
Editorial (编辑)
 Intras Ltd – Dorothy Fabian
 272 First Avenue, Apt 12G
 New York, NY 10009, USA
 Tel (电话):.....+1 212 614 9266
 Fax (传真):.....+1 212 614 9266
 Email (电子邮箱):..... dfabian@rcn.com

India (印度)
 Jintras Ltd – Jeroo Vandrevala
 Subarna (Ground Floor), P21/N, Block A
 New Alipore, Kolkata 700 053, India
 Tel (电话):.....+91 33 2407 07 01
 Fax (传真):.....+91 33 2407 07 00
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June

7-11: **Wire Expo 2008** – trade exhibition – Pittsburg, USA
Organisers: Wire Association Int
Fax: +1 203 453 8384
Email: info@wirenet.org
Website: www.wirenet.org



September

23-26: **wire China 2008** – trade exhibition – Shanghai, PR China
Organisers:
 Messe Düsseldorf GmbH
Fax: +49 211 4560 7740
Email: info@wirechina.net
Website: www.wirechina.net



November

9-12: **IWCS** – technical conference – Rhode Island, USA
Organisers: IWCS Inc
Fax: +1 732 389 0991
Email: admin@iwcs.org
Website: www.iwcs.org

June

17-20: **Wire & Fasteners 2008** – trade exhibition – Kiev, Ukraine
Organisers: TDS Expo
Fax: +380 44 596 9374
Email: info@weldexpo.com.ua
Website: www.weldexpo.com.ua

23-26: **9th China (Guangzhou) International Metal and Metallurgy Exhibition** – trade exhibition – Guangzhou, China
Organisers:
 Julang Exhibition Co Ltd
Fax: +86 20 386 20790
Email: meiwen@julang.com.cn
Website: www.julang.com.cn

November

20-22: **Wire and Cable India** – trade exhibition – Mumbai, India
Organisers: CII
Fax: +91 22 2493 9463
Email: info@ciionline.org
Website: www.ciionline.org

April 2009

25-30: **Interwire** – trade exhibition – Cleveland, USA
Organisers: Wire Association Intl
Fax: +1 203 453 8384
Email: info@wirenet.org
Website: www.wirenet.org

May

12-15: **wire Russia 2009** – trade exhibition – Moscow, Russia
Organisers:
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September

18-21: **Wire Turkey** – trade exhibition – Istanbul, Turkey
Organisers: Media Force
Fax: +90 212 465 7417
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October

6-8: **Metaltech** – trade exhibition – Sao Paulo, Brazil
Organisers: Grupo Cipa
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 international@cipanet.com.br
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○ Meltech's electrically heated furnace

Making the switch

The UK's oldest manufacturer of speciality wires, Webster & Horsfall, has replaced a gas furnace with an electrically heated furnace from Meltech Engineering, to cut energy costs and reduce the company's carbon footprint.

The Meltech MT1100 is used for strand annealing Webster & Horsfall's range of Austenitic and Super Duplex stainless steel wires.

Founded in 1720 by James Horsfall, Birmingham-based Webster & Horsfall manufactures carbon steel spring, music and rope wire, stainless steel spring wire, low alloyed steel spring wire and strip for springs, clips and pressings.

Over the past 12 months its energy costs have increased by more than 50%.

"We needed to cut our energy costs and contacted Meltech Engineering," said Charles Horsfall, managing director, Webster & Horsfall Ltd.

"The MT1100 is far more energy efficient than our gas furnaces. It also gives us greater versatility in our manufacturing operations. Until now we've had to start the gas furnace the night before using it to give it time to heat up to temperature; the cost against demand for annealing means we can no longer justify keeping the gas fired furnace on all the time. With the MT1100 we can turn it on as we need it; and the furnace is up to temperature within a fraction of the time," he explained.

The MT1100 is being used to strand anneal stainless steel wires from 0.7mm-4mm at 1,100°C. It is designed on the Meltech 'low thermal mass' principle and features multi-zone temperature control.

Customisation of element design allows optimisation of the MT1100's performance to fine tune temperature zoning and increase element operational life. In addition, the MT1100 uses advanced ceramic and insulation materials to give 90% thermal

efficiency, leading to more consistent and manageable heating across the length of the furnace and reduced furnace heating running cost.

Charles Horsfall sees the move away from gas to electric as both inevitable and welcome.

"The switch from a gas furnace to the MT1100 will have two positive benefits to our business, as well as reducing our energy costs," he said.

"It will improve the quality of our heat treatment and significantly reduce our carbon footprint ahead of any government legislation.

"Electricity can be generated from various fuel sources which hopefully will improve long-term security of supply. Ultimately we plan to replace all our gas furnaces with electric."

Meltech Engineering – UK
Fax: +44 1254 680175
Email: sales@meltech.co.uk
Website: www.meltech.co.uk

Production underway for Teknor Apex at Chinese site

The new Teknor Apex plant in Suzhou, China, has begun production of Apex® PVC compounds for wire and cable, including jacketing formulations for fast-growing communications, data, and electronic interconnect cable markets.

Apex jacketing compounds are available for riser (CMR) and tray (CM) cable applications as defined by UL.

In addition, Fireguard® compounds for plenum (CMP) cables can be stocked at Suzhou for local availability. Customers outside China can continue to source

Apex wire and cable compounds from Singapore Polymers Corporation (SPC), a Teknor Apex subsidiary.

The transfer of Teknor Apex compounding technology to both SPC and Teknor Apex Suzhou has made it possible for the local production of compounds that precisely duplicate those manufactured by Teknor Apex in the US.

These products already meet virtually all key regulatory codes and industry standards specified in the US, Canada,

Europe, and Japan for their intended applications.

Teknor Apex now offers RoHS-compliant alternatives to all of its existing Apex compounds. These products have no compromise in physical and electrical properties and are priced comparably to lead-stabilised counterparts.

Teknor Apex – USA

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Email: info@teknorapex.com

Website: www.teknorapex.com

New global director

Ben McNamara has been promoted to global director of sales for CommScope's BiMetals division.

Ben joined CommScope in November 2006 as BiMetals sales manager for the EMEA region and has worked diligently to strengthen this market.

He earned his Bachelor's degree in Marketing from the University of Liverpool, UK, and his MBA from the University of Wales, UK.

Supporting Ben in his new role will be Robert McEllen, who has been promoted to the position of BiMetals NAR/CALA sales manager.

CommScope – USA

Fax: +1 704 883 7582

Email: bimetals@commscope.com

Website: www.commscope.com

Changes at the top

Dries Ausems, at present Director Investor Relations, took over as Spend Area Director Petchem and Energy with DSM Sourcing, from 1st January 2008. On the same day, Hans Vossen – DSM's current Director Corporate Strategy and Planning – succeeded Dries Ausems.

DSM Desotech – Netherlands

Fax: +31 45 571 9753

Email: media.relations@dsm.com

Website: www.dsm.com

Croatia's president drops in at Autumn fair



○ Croatian president Stjepan Mesic at the exhibition

Unipromet Sarajevo, and a number of other exhibitors from Bosnia and Herzegovina, took part at last year's Zagreb International Autumn Fair from 11th-16th September.

As the owner of Zica dd Sarajevo, Unipromet presented Zica dd's production programme that includes an extensive range of wire products.

Zica dd Sarajevo's merchandise ranges from reinforced wire mesh to nails in addition to many other kinds of wire.

Along with the many guests to visit the Unipromet stand was Stjepan Mesic, president of Croatia. The Zagreb fair attracts a large audience of international buyers, suppliers and companies. It represents an important economic event for the Balkan region and is held annually.

Unipromet dd Sarajevo – Bosnia

Email: int.relations@unipromet.com

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- LHD-450/13型铜拉拔机
COPPER ROD BREAKDOWN MACHINE TYPE LHD-450/13
- YQL-150/5型连续挤铅机
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- LHD-450/13铝合金拉拔机
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 电话: (0838) 2603520 传真: (0838) 2601065
 上海工厂地址: 金山区山阳镇车山路363号
 电话: (021) 57244217 传真: (021) 57244317
 上海办事处地址: 交通路129弄5号101室
 电话: (021) 56085484 传真: (021) 56095586

ADD: BAJIAO INDUSTRIAL ESTATE, DEYANG,
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VAT No. DE183571337

ISO-9001 success for DSM's China operations

DSM Desotech has received ISO-9001 certification for its China operation.

This includes a sales office in Shanghai, as well as a local production facility at DSM Desotech Specialty Chemicals (Shanghai), Ltd (DDSC). As a leading supplier of UV-curable coatings, inks and matrix resins to the optical fibre industry, DSM Desotech opened DDSC in 2005 in response to significant growth in the Asian optical fibre and cable market.

The plant currently produces Cablelite® fibre optic inks for the

Asia-Pacific region and is Desotech's fourth manufacturing facility to receive ISO-9001 certification.

"We are extremely pleased to be able to demonstrate in this way DSM Desotech's commitment to the quality supply of our customers throughout China and the rest of the Asia-Pacific region," said DSM Desotech Asia-Pacific sales director Weber Lin.

DSM Desotech
- USA
Fax: +1 847 468 7785
Email: info@dsmdesotech.com
Website: www.dsmdesotech.com

Better performance

The installation of Morgan Construction Company's No-Twist Mill® (NTM) guide upgrades has resulted in significant improvements in mill utilisation at the ArcelorMittal Georgetown steel plant in Georgetown, South Carolina, USA, according to rolling mill division manager Danie Devapiriam.

"At the time of the upgrade, we had been experiencing many delays and cobbles in the NTM utilising outdated equipment.

"Overall we have experienced better-than-expected performance and benefits from this upgrade over the past five months," he added.

Morgan Construction Co - USA
Fax: +1 508 755 6140
Email: sales@morganco.com
Website: www.morganco.com

InterWire Group opens a new facility in Mexico

InterWire Products (IWP) has opened a new facility in Mexico to accommodate significant business growth and the demand for high quality ferrous and non-ferrous wire.

The new 30,000 square foot facility will service the wire markets in the Mexican region.

"We are very excited to officially open the doors to InterWire Mexico after so many months of preparation," said Frank Cardile Jr, president of IWP.

"I'm confident that customers will find our wire products of high quality, our customer service excellent and our prices reasonable."

Pete Rosa has been appointed general manager of IWP Mexico. Pete has been with the company for more than 15 years and has played an important role in managing the growth of IWP's Connecticut division.

This event follows IWP's recent expansion in North Carolina with a 54,000ft² facility and Michigan with an 80,000ft² facility servicing the Western Pennsylvania, Ohio, Indiana and Michigan markets.

The addition of these new locations to



○ InterWire's new facility in Mexico

the existing distribution centres now provides IWP, the largest distributor of fine quality wire, with a total of 500,000ft² of warehousing throughout the United States and Mexico.

The new, state-of-the-art IWP facility is located at Tepeyac 1420-D, Parque

Industrial Odonnell-Aeropuerto, El Marques, Queretaro, CP 76250 Mexico.

InterWire Group - USA
Fax: +1 914 273 6848
Email: info@interwiregroup.com
Website: www.interwiregroup.com



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New staff for US expansion

SPI Lasers LLC has hired two new senior staff members to expand the North American team as the company looks to build on strong growth in 2007.

Jim Data joins SPI Lasers as Director of Sales for North and South America and Ken Dzurko joins the company as Business Development Director.

"We are pleased to welcome Jim and Ken to the SPI Lasers team," said John Tinson, vice president of worldwide sales.

"SPI have been ramping up activities in North America for the last year. The effects of the increase in activity are now proving their value in terms of good results in the area in 2007.

The new G3 and R4 platforms that were recently announced are showing significant growth prospects for 2008."

A sales executive with more than 17 years' experience, Jim Data has considerable understanding of micro-machining and marking with a long history in lasers and laser applications.

He is heading up the US team and will be based at the company's US head-quarters in Santa Clara, California,

with responsibility for Canada, USA, Mexico, Central America and South America.

Ken Dzurko joins SPI following 18 years in diode laser related experience that includes technology advancement and high reliability product development for defence, industrial and communications markets. As the senior executive in the region, Ken is responsible for expanding the company's contracts business and supporting business development in all commercial markets. The applications lab has recently announced new applications that expand the proven capabilities of the fibre laser.

These new applications for the fibre laser come as a result of the free of charge 'Proof of Principle' trials where device and component manufacturers from around the globe are invited to work with SPI on their own application specific trials. In addition, SPI offer a 'try before you buy' programme and provides a progressive programme to support academic and not-for-profit research centres.



○ Jim Data



○ Ken Dzurko

SPI Lasers – USA
Fax: +1 408 317 0407
Email: info@spilasers.com
Website: www.spilasers.com

and a new website for China

SPI Lasers, a designer and manufacturer of fibre lasers, has launched a new website – www.spilasers-china.cn – for the Chinese market.

The new website provides information on SPI Lasers' entire range in the Chinese language for the first time, as well as the capability to book evaluations, download datasheets and application notes, book samples into the applications laboratory, find contact details of the relevant sales and customer support team and more. This new website comes as a result of excellent sales in the region.

"China is one of our most successful export territories," said John Tinson, vice president of sales for SPI Lasers.

"This website will expand on the success that we have already experienced in the region and will enable interested parties to be kept informed about the latest developments at SPI Lasers in their own language."

Construction underway on China site

Royal DSM NV has started construction on a new factory for the production of waterborne acrylic resins in China.

With the investment of around €20m, DSM has taken another step in its ambition to reach sales of US\$1.5billion in China in 2010, while at the same time introducing products to the country that contribute to a reduction in harmful emissions.

Waterborne acrylic resins can be used in water-based coatings which do not require volatile organic compounds (VOCs).

These VOCs have negative effects on the environment. Waterborne resins are applied as a raw material in a wide range of products, varying from decorative paints to adhesives.

The new factory is being built in the province of Guangdong on the existing site of DSM Syntech. The factory will be completed in the second quarter of 2008. It will be the first factory in China for the production of waterborne resins for DSM NeoResins+.

China currently represents a small, but very promising market for speciality waterborne resins. DSM has good expectations for these resins for the industrial wood and metal coatings as well as for the adhesives and graphic arts markets.

This expansion for waterborne resins is one of the first expansions at the DSM NeoResins+ site in China.

The ground-breaking ceremony was held on 22nd November, in the presence of Mr Lie Hai Jian, vice mayor of Shunde.

DSM – Netherlands Fax: +31 45 5740680
Email: info@dsm.com **Website:** www.dsm.com

Start up for Russian mill

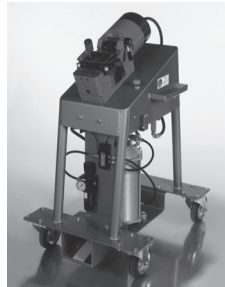
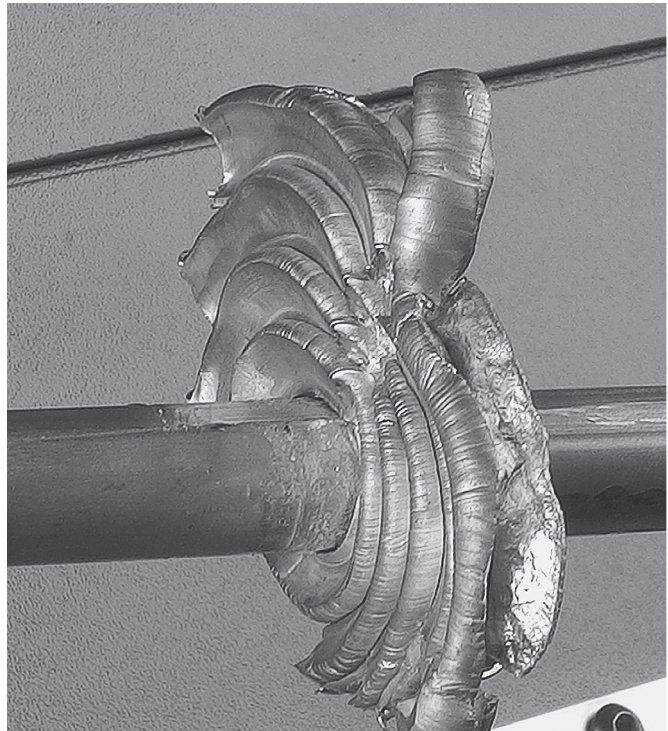
Zao Kyshtym Electrolytic Copper Plant of Ekaterinburg, Russia, has started up a single-strand copper rod mill supplied by Morgan Construction Company.

This is the second SCR system purchased by Russian Copper Company, the parent company of Kyshtym. The first system is operated by NMZ at Veliky Novgorod, Russia.

In announcing the start up, John T Buell, manager, non-ferrous sales, noted the SCR 2000 copper system is being supplied to Kyshtym by the Southwire Company of Carrollton, GA, USA. Morgan supervised the installation and start up of the mill. The mill is designed to produce 8mm to 16mm copper rod at 12 metric tons per hour.

Under the terms of contract, Morgan supplied the mill with an entry shear, a 12" stand, eight 8" stands, a pickling line, turn-down, pinch roll, coiler, and a five-station conveyor.

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Joining up with the students

Joachim Uhing KG GmbH & Co in Mielkendorf is supporting the startIn! project run by Kiel University of Applied Sciences.

Grouped in project teams, freshman students can gather on-site experience, test their aptitude and get informed of career opportunities.

For a long time, business management students have had the privilege of practically implementing their theoretical knowledge.

What would be more obvious than putting flesh on the bones of mechanical engineering theory by allowing an insight in the daily life of a practical engineer?

"There is hardly any other sector that demands such a close interaction between theoretical background and practical skills," says Burkhard Bohn, Uhing KG's Engineering head. "This is why we decided to support the startIn! project."

Kiel University of Applied Sciences launched the project in winter 2006/07.

Some 50 freshman students, grouped in teams of 10, may take on the role of an engineer after only six weeks of studies. To give them an idea of what their future job holds in store, they solve a problem posed by a sponsoring company.

In the course of the project, originating from a very successful initiative of Darmstadt Technical University started in 1998, the future engineers also learn to understand why it is important to study the theoretical background often regarded as dry and removed from reality.

"During project work, the students can find out whether the subject they have chosen appeals to them. We can assist young students and also inform them of their career opportunities," added Bohn.

"Everybody is talking about the threatening technological emergency in Germany," said Wolfgang Weber, Uhing's sales and marketing head, in an attempt to explain the motives of the likewise innovative and long-established enterprise to sponsor a group of students.

"It is relatively easy to replicate a machine but you cannot imitate the decades of experience that led to its development. We are glad to offer young students an insight into the daily life of classical engineering. They get first hand experience of what it means to practically implement theoretical knowledge and realise how much know-how is required for our work."

**Joachim Uhing KG GmbH & Co
- Germany**

Fax: +49 4347 90640

Email: sales@uhing.com

Website: www.uhing.com

Prices on the up

Dow Wire and Cable has increased its prices on all its wire and cable resins, compounds and materials sold in North America. The \$0.12 per pound increase was effective from 1st January 2008.

Dow Wire and Cable - USA

Fax: +1 713 978 3281

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Career awards for WCMA

The Wire & Cable Manufacturers' Alliance (WCMA) has announced the recipients of its 2008 Distinguished Career Award.

The 24th annual awards dinner and investiture ceremony will take place on 12th April in Windsor, Connecticut, at the Hartford/Windsor Marriott Airport Hotel.

This year's recipients are: Brian Bukovec, chief operating officer and vice president, Radix Wire; Mike Carbray, general manager, Amphenol/Spectra-Strip; David Chu, materials development director, Draka USA; Tony Dolce, CFO and director of administration, T & T Marketing; Virginia Hauser, vice president of sales, Phelps Dodge Sales Co; Richard Kruger, vice president sales and marketing, Champlain Cable Corp; Guy Marini, president and CEO, NEPTCO Inc; Fred Wagner, founder, Minnesota Wire & Cable.

The Wire & Cable Manufacturers' Alliance (WCMA) was established in June 2004 as the successor organisation to the Wire & Cable Clubs of America. WCMA is a corporate membership organisation for manufacturers of conductor, insulated wire, cables, fibre optic cables, and connectivity products with an established manufacturing base in North America, as well as industry suppliers and service providers.

WCMA - USA

Fax: +1 860 873 3281

Email: info@wcmainc.org

Website: www.wcmainc.org

Nordson's Georgia plant in the top 21 in the USA

Nordson Corporation's Swainsboro, Georgia, USA, manufacturing facility was named a finalist in Industry Week magazine's 2007 Best Plants competition. The Nordson plant was recognised as one of the top 21 in the USA.

The Swainsboro facility produces ProBlue adhesive melters – hot melt dispensing systems, dispensing guns, modules and nozzles.

The plant will also add new ProBlue Fulfill integrated fill systems and Classic XIV melters to its portfolio in 2008.

These systems are used in the packaging of consumer products and in a wide variety of general industrial assembly applications.

Established in 1990, the annual competition salutes plants that are on the leading edge of efforts to increase competitiveness, enhance customer satisfaction and create stimulating and rewarding work environments.

The competition encourages manufacturing managers and work teams to emulate the honorees by adopting world-class practices, technologies and improvement strategies.

Entrants are judged on criteria including:

Proactive environmental and safety practices; operational improvements; agile production systems; supplier partnerships; customer focus; employee empowerment; quality systems; management practices; and manufacturing capability.

Industry Week selected Nordson from more than 200 entries in 2007. The top 21 are recognised as finalists.

Ten winners are then selected and featured in Industry Week issues throughout the year.

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Czech upgrade for Tenova

Tenova Strip Processing has been awarded an order for a new silicon steel line for the Frydek-Mistek plant upgrade in the Czech Republic.

Tenova has acquired an order from Valcovny Plechu, of the Arcelor-Mittal group, for the first of six operations planned as part of the project to upgrade the plant in Frydek-Mistek, 30km from the city of Ostrava.

The order is relevant to the supply of a complete silicon steel line.

This line is a medium size installation for the application of a magnesium-based thermal insulator on grain-oriented steel plate with magnetic properties.

Tenova will provide all the mechanical, electrical and hydraulic engineering, assembly supervision and plant start-up.

Installation will begin in March with start-up scheduled before summer. The line will deliver an annual production of 73,000 tons of steel with magnetic properties, to be used for electrical applications. This order is in addition to the three plants currently under construction – one in Novolipetsk, Russia, for NLMK and two in Wuhan, China, for WISCO.

Tenova – Italy

Fax: +39 02 469 3026

Email: tenova@tenovagroup.com

Website: www.tenovagroup.com

New mill heading for China

In response to Chinese market demands for higher quality products, the Jiangsu Jiang Run Copper Co Ltd of Yixing, China, has ordered an SCR 7000 system for its copper rod mill.

In announcing the contract, John T Buell, manager non-ferrous sales for Morgan Construction Company, noted the SCR 7000 system is being supplied to Jiangsu Jiang Run by the Southwire Company of Carrollton, GA, USA.

Under the terms of contract, Morgan will supply the mill with an entry and intermediate shear, 13 stands – one 18", four 12" and eight 8" stands, a pickling line, pinch rolls, turndown, coiler and a conveyor.

The mill's guaranteed speed will be 48 metric tons per hour. Most of the equipment will be manufactured in Morgan's Worcester facility.

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The line feed can be made either from flyer pay-off or from a driven pay-off. The cable passes through the length measuring device and then through a spark tester for the insulation quality control: if the spark tester detects a defect, the coil is automatically expelled from the production cycle, while the packaging operation restarts immediately.

After passing through the spark tester, the cable proceeds to the coiling head where there is a traversing unit for winding the cable.

The feeding of the cable under the winding core and the cutting at the pre-set lengths, the extraction of the coil from the coiling head and the subsequent movement of the coil to the strapping unit, to the packaging station with thermo-shrinking film or to the automatic boxing station are all sequenced in automatic mode.

All these lines are comprised of standard component parts that can be easily configured according to the specific requests of the client and the availability of space in the plant. It is possible to add further accessories in order to obtain personalized and tailored plant configurations according to the individual client's expectations.



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Automatic coiling lines suitable for flexible and non-flexible/rigid cables up to 30 mm – 1,181" O.D. (maximum cross section 85 sqmm-0,147 sq.inch.).

A self-alignment driven pay-off leads the horizontal or vertical accumulator (with accumulation capacity of 80 m-262' or 110 m-361').

The cable then passes to the lump and neck down detector, length measuring device and spark tester.

Coil can be strapped with diametrical strap or two/four toroidal straps and then moved to the packaging stations where it is thermo-shrink wrapped, labelled and palletized. The palletizer places the coils on the pallet taking into due consideration the best stability of the load and filling of the pallet's surface.

Special Improvement for MAUTOMATIC 400 EVOLUTION: thanks to a special device designed by EFAF the cable tail is placed under the coil by keeping the perfect cylindrical shape avoiding in this way the strapping operation.

MAC

MAC is the automatic coiler designed in order to satisfy the requirements of small and large cable producer companies that have to package many different types of cables in small quantities. The wire can be supplied to the line with a flyer pay-off or a portal pay-off with vertical accumulator. At the exit of the coiler there are three possibilities:

- Toroidal or diametrical manual strapping machine;
- Diametrical automatic strapping machine;
- Automatic packaging with thermo shrinking film.

It is also possible to insert in the line customers existing pay-off units or thermo shrinking stations. The electronic system is control by a Siemens S7 PLC with a Siemens Touch Screen. The Automatic Coiler MAC 400 is very compact. In fact, the dimensions are 2220 mm x 1910 mm x 2400 mm covering a space not much more than 4 m².



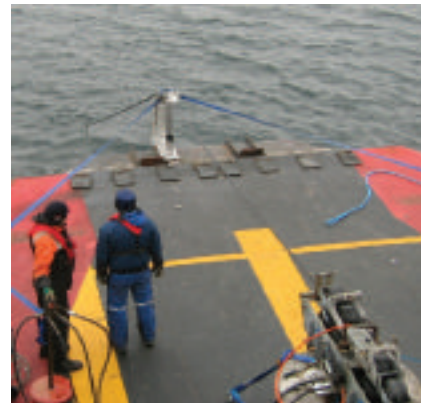
Nexans lays cable on bottom of Lake Constance, Germany

Nexans has completed a contract for Stadtwerke Konstanz GmbH to lay a submarine fibre optic cable across Lake Constance, Germany, providing a new ultra-fast data communication link between the German towns of Konstanz and Friedrichshafen.

Konstanz and Friedrichshafen are on opposite shores of Lake Constance,

the large freshwater lake on the Rhine between Germany, Switzerland and Austria.

Stadtwerke Konstanz, the local utility, wanted to upgrade the data communications link between the two towns. However, laying the cable on land would have involved taking a long route around the lake with expensive excavation work. The direct route, with the cable laid on the lake bed, has proved more cost-effective.



Workers lay the cable on the bed of Lake Constance, Germany

The fibre-optic cable, weighing more than 30 tons and 26 kilometres long, was manufactured and delivered by Nexans in one single continuous piece thus eliminating jointing operations. Beneath a robust outer sheath, it comprises four stainless steel sheathed bunched conductors, each consisting of 48 mono-mode fibre optic cables.

Each individual fibre is capable of ultra-quick transmission of large amounts of data, digital television signals and an almost unlimited number of telephone conversations.

A condition for Nexans receiving the order was that the materials used in the construction of the cable must not harm the drinking water reservoir, as many towns and communities, right up to the northern border of Baden-Württemberg, get their water from Lake Constance.

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

... and agrees to buy Madeco

Nexans has signed a framework agreement to acquire the cable business of Madeco, in South America.

At current non-ferrous metal prices, the 2006 sales of the Madeco Group cable business totalled US\$ 672 million (€457 million), in three major segments: cables for infrastructures, industry and building (and in electrical wires to a lesser extent).

The organic volume growth for these segments was 12% per year during the 2004/2006 period. For the 2007 half-year, Madeco's wire and cable sales breakdown by country was approximately: 43% in Brazil, the largest market in South America, 28% in Chile, 18% in Peru, 6% in Argentina, and 5% in Colombia.

In all these countries, Madeco has a leading position thanks to its established reputation and commercial image. These growing markets, Madeco's leading position, and its management excellence enabled the company to realise a US\$ 43 million (€29 million) EBITDA in the first half of 2007, representing an operating margin of 10.6% of sales at current non-ferrous metal prices.

The closing of this acquisition is expected in the third quarter of 2008 and is mainly subject to approval of Madeco's and Nexans' shareholders, as well as relevant regulatory authorities.

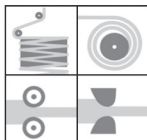
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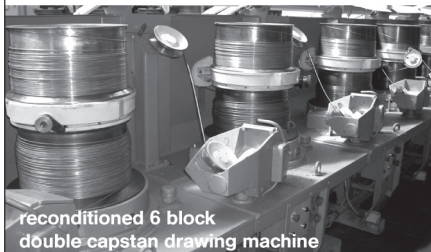
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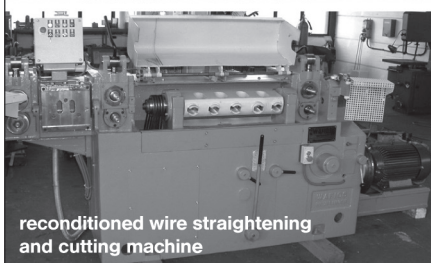
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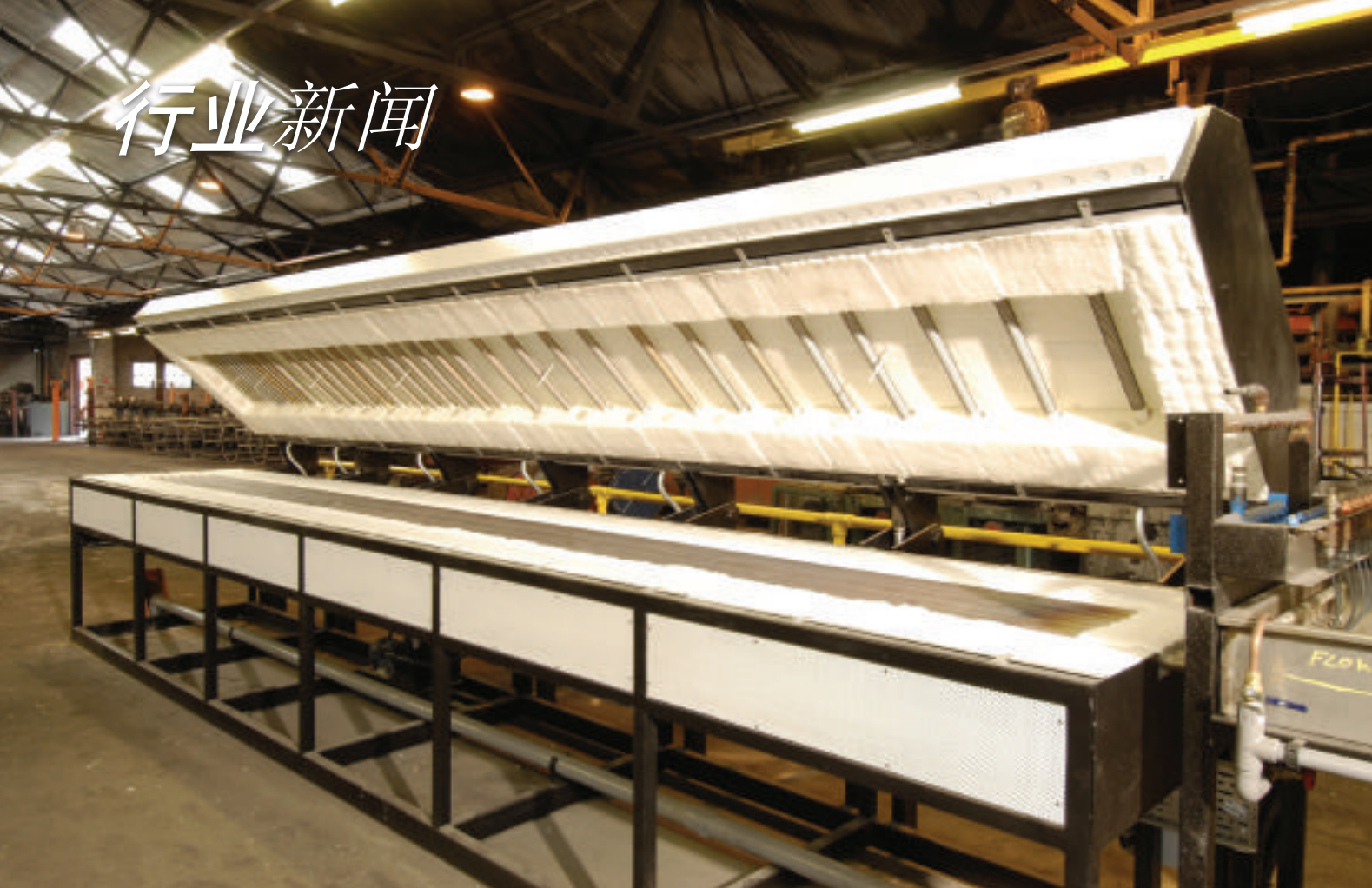
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公司由James Horsfall创建于1720，以伯明翰为基地的Webster & Horsfall生产碳钢弹簧、乐器钢丝和绳索钢丝、不锈钢弹簧丝、低合金钢弹簧丝、弹簧、剪切和冲压用钢带。

在过去的12个月，其能源成本上升了50%以上。

“我们需要削减我们的能源成本，所以我们联系了Meltech Engineering。” Webster & Horsfall Ltd执行总裁Charles Horsfall说。“MT1100的能源效率远比我们的煤气炉高，它还为我们的生产操作带来更大的多样性。直到现在，我们还不得不在夜间启动煤气炉，而其它时间则对其预热，使其达到温度要求；退火所需的成本很高，一直保持煤气炉燃烧在成本上显然已不合算，有了MT110，我们可以在

需要时就启动它，炉子在片刻间就能达到温度要求，”他解释道。

MT1100用于0.7毫米-4毫米不锈钢丝的分股退火，温度为1100°C，它的设计基于Meltech的“低热质量”原理，具有多区温控的特点。元件设计定制化可优化MT1100的性能，细调温度分区，增加元件的操作寿命，另外，MT1100采用先进的陶瓷绝热材料，使热效率达到90%，在整个炉子长度产生更稳定、便于管理的加热，降低炉子加热运行成本。

Charles Horsfall认为用电热炉替换煤气炉是势在必行，受人欢迎。“把煤气炉更换为MT1100给我们带来两大好处，而且还降低了我们的能源成本。它将改进我们的热处理质量，大大降低碳足迹，面对政府的立法规定。电力可以从各种燃料源产生，这将改进我们的供应保障。最终，我们计划将所有的煤气炉改为电热炉。”

Meltech Engineering – 英国
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网站: www.meltech.co.uk

俄罗斯铜棒厂开车

Zao Kyshtym电解铜工厂位于俄罗斯叶卡特琳堡，它的一套单台铜轧制装置已开车，这套装置由Morgan Construction Company提供。

这是这家俄罗斯铜公司购买的第二套SCR系统，其母公司是Kyshtym，第一套系统由NMZ操作，位于俄罗斯的Veliky Novgorod。

在开车典礼上，负责有色金属销售的John T Buell说，位于美国GA，Carrollton的Southwire公司正向Kyshtym供应SCR2000铜系统。Morgan监管了轧制装置的安装和开车。根据合同条款，Morgan提供轧制装置的输入剪切装置、1个12英寸轧制台、8个8英寸轧制台、1套酸洗机组、倾翻装置、轧辊、缠卷装置和5站输送装置。轧制装置设计生产8毫米到16毫米铜棒，达每小时12公吨。

Buell补充说，轧制装置的供货从上年12月开始，于2007年8月开车。

Morgan Construction Company – 美国
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Fax (86 21) 6549 1182
Email exhibition@secr1.com

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Braiding outer dia.	$\Phi 90\text{mm}$ (max)
Braiding pitch	27~270mm
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Main motor	7500W



Take-up (optional)

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<http://www.shanghai-nanyang.com>

E-mail: sales@shanghai-nanyang.sina.net

与学生联结在一起

位于Mielkendorf的Joachim Uhing KG GmbH & Co. 正在资助由基尔应用科学大学倡导的起跑!项目。一年级大学生在结成项目小组,获得实践经验,测试他们的态度,获得职业机会。

长期以来,业务管理系学生已有机会去实践他们的理论知识。

通过观察一个实际工作中的工程师的日常生活,好比将新鲜血脉赋在机械工程理论的骨架上一样,还有什么比这更清楚的呢?

“没有其它东西更需要如此密切的理论背景与实际经验的互动,” Uhing KG工程总管Burkhard Bohn说,“这就是为什么我们决定支持这个起跑!项目。”

基尔应用科学大学于2006/07年冬季发起这个项目,大约50名一年级大学生结成10个小组,仅通过6个星期的研究就可能进入一名工程师的角色。为了给他们一个概念,即他们未来的工作将是什么样子的,他们要解决一个由发起公司给他们出的一道题目。

在项目执行过程中,出于达姆施塔特技术大学在1998年就创建的一个非常成功

的动机,未来的工程师还要学习理解为什么研究理论背景是很重要的,而人们往往把它看成是枯燥乏味,在实际工作中没有用的。

“在项目工作期间,学生们能发现他们所选择的主题是否吸引他们。我们能帮助年轻的学生们,还让他们知道未来的职业机会,” Bohn补充道。

“每个人都谈到令人感到威胁的德国的技术危机,” Uhing销售/市场总管Wolfgang Weber说,试图解释历史悠久但同样具有创新力的企业资助学生项目组的动机。

“复制一部机器比较容易,但你不能模仿导致其发展的几十年的经验,我们很高兴为年轻学生提供机会,来洞察典型工程师的日常生活,从中获得第一手经验,即实践理论知识意味着什么,并认识到我们的工作需要有多少技术诀窍。”

Joachim Uhing KG GmbH & Co
- 德国
传真: +49 4347 90640
电子邮箱: sales@uhing.com
网站: www.uhing.com

ISO-9001为DSM在中国运作发挥作用

DSM Desotech已收到ISO-9001证书,用于其在中国的运作。这包括在上海的一个销售处以及在当地的一个工厂: DSM Desotech Specialty Chemicals (Shanghai), Ltd (DDSC)。作为光纤工业抗紫外涂层、油墨和基质树脂的一个领军供应商, DSM Desotech在2005年开设了DDSC,以响应亚洲光纤和电缆市场的重大增长。

国内工厂目前为亚太区生产Cablelite®光纤油墨,是Desotech第四家收到ISO-9001证书的工厂。

“我们非常高兴能以这样的方式证明DSM Desotech的承诺,向我们的全中国客户和亚太区的其它客户提供优质的供应,” DSM Desotech亚太区销售总监Weber Lin说道。“ISO-9001证书仅是支持Desotech定位的措施之一,即不仅是一家工业领军企业,而且也是一个值得信赖的合作伙伴。”

DSM Desotech - 美国
传真: +1 847 468 7785
电子邮箱: info@dsmdesotech.com
网站: www.dsmdesotech.com

Nexans在德国康士坦茨湖湖底铺设电缆

Nexans为Stadtwerke Konstanz GmbH完成一项合同,即在德国康士坦茨湖湖底铺设湖底光缆,为德国城镇Konstanz和Friedrichshafen之间提供超快速数据通信。

Konstanz和Friedrichshafen分别位于康士坦茨湖两岸。康士坦茨湖是德国、瑞士和奥地利之间的莱茵河地区的最大淡水湖。

当地的公用事业机构Stadtwerke Konstanz本想更新两个城镇之间的数据通信,但是,沿着湖边在地上铺设电缆涉及长距离和大量的挖掘工程,而通过湖底直通铺设电缆则更为经济。

光缆重量超过30吨,26公里长,由Nexans生产交货,这是单根全长无接头的光缆,不需要接头操作。在强劲的外层下,它包括四根不锈钢护套的成束导体,每根含有48单模式光缆。

单根光纤能超快速传送大量的数据、数字电视信号和几乎是无限制的电话对话。

Nexans接收订单的一个条件是:电缆构造材料必须对饮用水库无害,因为



工人们在德国康士坦茨湖湖底铺设电缆

Baden-Württemberg北界的许多城镇和社区都需要从康士坦茨湖取水,还要保证电缆铺设不得有害于任何迁徙鸟类或繁殖鸟类、鱼类产卵或河边植物增长。

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

Tenova为捷克提供更新装置

Tenova Strip Processing已获一份订单,为捷克共和国的Frydek-Mistek提供一套新的硅钢装置,用于工厂的更新。

Tenova已从Arcelor-Mittal集团的Valcovny Plechu获得一份订单,作为六大运作中的第一个,是Frydek-Mistek更新项目的一部分,离俄斯特拉发市区30公里。

订单与供应整套硅钢装置有关,该装置属于中等规模,用于磁性晶粒取向钢片的镁基热绝缘体。

Tenova将提供所有的机械、电气和液压设计、组装监管和装置开车。

将于3月份开始安装,计划在夏季前开车。装置年产73,000吨磁性钢材,用于电气应用。

该订单是继正在建设中的三套装置之后又一套,一套在俄罗斯的Novolipetsk,用于NLMK,另外两套在中国武汉,用于WISCo。

Tenova - 意大利
传真: +39 02 469 3026
电子邮箱: tenova@tenovagroup.com
网站: www.tenovagroup.com

InterWire集团在墨西哥开设新工厂

InterWire Products (IWP)在墨西哥建设了一个新的设施,以响应大量的业务增加以及对高质量黑色和有色线材的需求。新设施占地30,000平方英尺,服务于墨西哥地区的线材市场。

“我们很高兴在经过许多月的准备之后,InterWire Mexico能够正式开业,”IWP总裁Frank Cardile Jr说,“我相信,客户将能找到高质量的线材产品,我们的客户服务是优秀的,我们的价格是合理的。”

Pete Rosa被任命为IWP Mexico总经理。Pete加盟公司已15年有余,对IWP 康涅狄格州区域的增长发挥了重要的作用。这项举措紧跟着IWP最近在北卡罗来纳州的扩展,该工厂的占地面积达54,000平方英尺,另外还有在密歇根州占地80,000平方英尺的工厂,服务于西宾夕法尼亚州、俄亥俄州、印地安那州和密歇根州市场。这些新建设的工厂加上现有的配售中心,使得IWP成为最大的高质量细丝经销商,在美国和墨西哥的总仓储面积达到500,000平方英尺。



○ InterWire在墨西哥的新工厂

新建的一流的IWP工厂位于墨西哥CP 76250, Queretaro Parque, El Marques, Industrial Odonnell-Aeropuerto Tepeyac, 1420-D。

InterWire Group – 美国
传真: +1 914 273 6848

电子邮箱: info@interwiregroup.com
网站: www.interwiregroup.com

Nexans签署并购Madeco的协议

Nexans签署了一份并购南美Madeco电缆业务的框架协议。按照目前的有色金属价格, Madeco集团电缆业务在2006年的销售额共计6.72亿美元(4.57亿欧元),主要有三大业务板块:基础设施电缆、工业和建筑(以及份额较小的电气线材)。在2004/2006期间,这些业务板块每年的有机增长为12%。在2007年的半年中,若按国家来分的话, Madeco的线材和电缆销售额大约为:43%在巴西,这是南美最大的市场,28%在智利,18%在秘鲁、6%在阿根廷、5%在哥伦比亚。

在这些国家中,由于Madeco业已确立的信誉和商业形象,它处于领军地位。这些不断增长的市场、Madeco的领军地位及其管理的优秀性使公司在2007年上半年实现了4300万美元(2900万欧元)的EBITDA,按照目前的有色金属价格,即为销售额的10.6%的营业毛利。此项并购预期在2008年第三季度截止,支付将包括Nexans的250万新发股份、4.22亿美元(2.87亿欧元)承担现金和债务,以考虑到少数股权。

Madeco将在Nexans获得大约9%股份(以2810万股计),并承诺在交割日后至少12个月内持有股份。Nexans董事会将在2008年初召开一次一般股东特别会议,以批准发股,选举Madeco集团的一名代表为董事。达成交易主要取决于Madeco和Nexans股东以及相关法律法规当局的批准。

为加拿大提供价值2,100万欧元的电缆

Nexans将在今后4年中向马尼托巴湖水力发电厂提供价值2,100万欧元的电力电缆,用于加拿大这个省的电力和天然气设施。这个安排进一步扩展了马尼托巴湖水力发电厂与Nexans在加拿大的长远关系,这种关系早在2001年就已建立,当时, Nexans被选为其所有设施电缆和线材的独家供应商。

Nexans目前为马尼托巴湖水力发电厂提供41种不同的电缆、线材和配件,用于整个省的高架和地下电力输送网络,包括中压和低压电缆、裸铝和ACSR(铝导体钢加强)线材。除电缆和线材产品外, Nexans还派遣了一个商务和技术代表组,监管安装,参与共同的持续改进目标。

未来4年提供的线材和电缆产品将由Nexans Weyburn工厂在当地生产,工厂位于萨斯喀彻温省南部。

Nexans – 法国
传真: +33 15669 8484

电子邮箱: nexans.web@nexans.com
网站: www.nexans.com

Nordson的乔治亚州工厂成为全美21家顶尖工厂之一

美国乔治亚州Nordson公司的Swainsboro工厂进入工业周刊杂志(Industry Week)2007最佳工厂竞赛决赛。Nordson工厂被公认为是美国21家顶尖工厂之一。

Swainsboro工厂生产ProBlue粘结剂熔炉 - 热融扩散系统、扩散枪、模块和喷嘴。

2008年,工厂还在其产品范围中增添了新的ProBlue Fulfill一体化添加系统以及Classic XIV熔炉,这些系统用于消费产品的包装以及一般工业组装的各种应用。

竞赛创办于1990年,每年举办的竞赛推崇这样的工厂,即努力增加其竞争力、增强客户满意度、创造激励和奖励的工作环境。竞赛鼓励制造经理们和工作团队采纳世界级惯例、技术和改进战略,赶超冠军得主。

对参加竞赛者的评判标准包括:积极主动的环境和安全惯例、操作改进、敏捷的生产系统、供应商合作伙伴、以客户为主、员工雇佣、质量系统、管理惯例和制造能力。工业周刊从2007年超过200家企业中选出Nordson。

21家顶尖企业被公认为是进入决赛的企业,从中选出10个赢家,全年刊登在工业周刊上。

Nordson Corporation – 美国
电子邮箱: info@nordson.com
传真: +1 866 667 3329
网站: www.nordson.com

WCMA职业生涯奖

线缆制造商联盟(WCMA)宣布其2008杰出职业生涯奖获得者。

第24届年度颁奖宴和授奖庆典将于4月12日在康涅狄格州Windsor的Hartford/Windsor Marriott空港酒店举行。

今年的获奖者是: Brian Bukovec, Radix Wire营运总管兼副总裁; Mike Carbray, Amphenol/Spectra-Strip总经理; David Chu, Draka USA材料开发总监; Tony Dolce, T & T Marketing行政执行长官; Virginia Hauser, Phelps Dodge Sales Co销售副总裁; Richard Kruger, Champlain Cable Corp销售和市场营销副总裁; Guy Marini, NEPTCO Inc总裁兼执行长官; Fred Wagner, Minnesota Wire & Cable创建者。

线缆制造商联盟(WCMA)创建于2004年6月,是美洲线缆俱乐部的继任组织。

WCMA实行公司成员制,包括在北美有生产基地的导体、绝缘线材、电缆、光纤电缆、导体产品制造商,以及供应商和服务提供商。

WCMA - 美国

传真: +1 860 873 3281
电子邮箱: info@wcmainc.org
网站: www.wcmainc.org

新的管理人员支持在美国的扩展计划

SPI Lasers LLC聘请了两名高级管理人员,扩展公司在北美的团队,鉴于公司在2007年获得了强劲的增长。

Jim Data加盟SPI Lasers,成为北美和南美销售总监, Ken Dzurko加盟公司,成为业务发展总监。

“我们很高兴地欢迎Ken加盟SPI Lasers的团队,”全球销售副总裁John Tinson说。

“SPI从去年开始活跃于北美市场,发展业务的努力证明了他们的价值,2007年该区域取得了良好的成绩。最近宣布的新的G3和R4平台为2008年展示了重大的增长前景。”

Jim Data拥有17年销售管理经验,微电机和标志造诣颇深,长期在激光和激光应用领域工作。他领导着美国团队,基地在公司的美国总部,即加州的Santa Clara,负责加拿大、美国、美洲中部和南美。



○ Jim Data



○ Ken Dzurko

Ken Dzurko加盟SPI,拥有18年与二极管激光相关的经验,包括技术开发和高可靠性产品开发,用于国防、工业和通信市场,作为该区域的高级领导人, Ken负责扩展公司的合同业务,支持所有商业市场的业务开发。

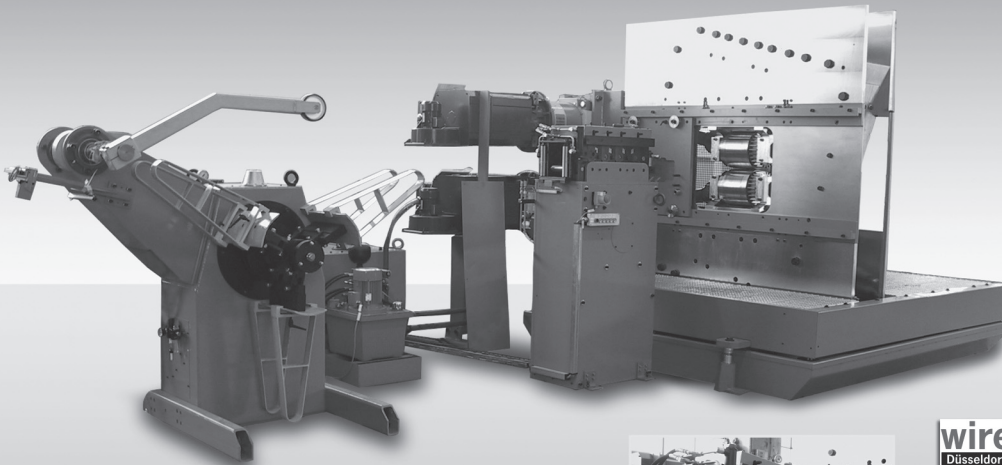
应用实验室最近宣布新的应用,扩展成熟的纤维激光能力。

这些纤维激光新应用得益于免费的‘原理验证’试验,即邀请世界各地的装置和组件制造商与SPI合作,来试验他们自己的应用。

另外,在你购买活动程序之前, SPI还提供试用,提供渐进的活动程序来支持学术研究,而不是利益驱动型的研究中心。

SPI Lasers - 美国
传真: +1 408 317 0407
电子邮箱: info@spilasers.com
网站: www.spilasers.com

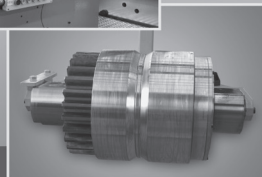
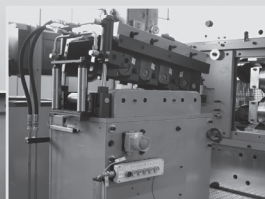
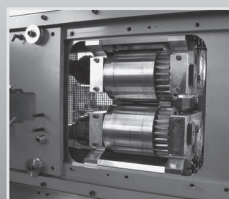
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萨格勒布秋季展览会

萨拉热窝Unipromet、波斯尼亚和黑塞哥维的一些参展商将参加今年9月11日到16日的萨格勒布国际秋季展览会。

Unipromet是萨拉热窝Zica dd的业主，代表了Zica dd的生产活动，它拥有品种广泛的线材产品。

萨拉热窝Zica dd的商品范围从加强线网到钉子，还有很多其它种类的线材。

与许多贵宾一起访问Unipromet展台的还有克罗地亚总统Stjepan Mesic。萨格勒布展览会吸引了大量的国际买主、供应商和公司，它每年举行，是巴尔干地区的一次重要的经济盛会。

Unipromet dd Sarajevo – 波斯尼亚
 传真: +387 33 234 182
 电子邮箱: int.relations@unipromet.com
 网站: www.zica.ba



○ 克罗地亚总统Stjepan Mesic在展览会

DSM发力, 支持赛艇队

DSM将成为荷兰两支最好的470级赛艇队的正式发起人。

在北京奥运会临近之际, DSM资助世界冠军得主 Marcelien de Koning和Lobke Berkhout、葡萄牙2007世界锦标赛银牌得主Sven和Kalle Coster。两支赛艇队将成为2008夏季奥运会奖牌的主要竞争者。

这些顶级赛艇队将加入DSM的无限制运动队。DSM一直是荷兰男子排球队、撑竿跳运动员Rens Blom、脊髓病患者运动会轮椅网球运动员Sharon Walraven的创新合作伙伴。

DSM董事会副主席、DSM奥林匹克指导委员会主席Jan Zuidam 说: “荷兰470级赛艇队包括了雄心勃勃、成功的男女运动健儿, 他们正为参加2008北京奥运会作积极准备。”

“有他们加盟DSM运动队, 那太好了, 通过我们在营养和材料方面的创新, 我们将与他们密切合作, 一起奔向成功之路。”

拔剑吧!

这是DSM拔剑的时刻, DSM已成为瑞士击剑队的正式发起人, 该击剑队将参加今年的北京奥运会。这支团队由Marcel Fisher带领, 夺得希腊雅典2004年奥运会金牌。

这支顶尖击剑队加盟不断扩展的DSM无限制运动队。目前已有荷兰两支最佳的470级赛艇队、荷兰男子排球队、荷兰撑竿跳运动员Rens Blom和荷兰脊髓病患者运动会轮椅网球运动员Sharon Walraven。有瑞士击剑队加盟后, DSM涉足运动将逐渐成为一种国际化的努力。

DSM董事会副主席、DSM奥林匹克指导委员会主席Jan Zuidam说: “瑞士击剑队拥有雄心勃勃、成功的男女运动健儿, 他们正积极备战2008北京奥运会。”

“我非常欢迎他们加入我们的DSM运动队, 通过我们在材料和营养方面的创新, 我们将与他们密切合作, 一起通向成功之路。”

DSM – 荷兰
 传真: +31 45 571 9753
 电子邮箱: info@dsm.com
 网站: www.dsm.com

升价

Dow Wire and Cable已提升了它在北美销售的所有线材和电缆树脂、化合物和材料的价格。自2008年1月1日起, 每磅提高0.12美元。

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 网站: www.dow.com

新的轧制装置到中国

为了响应中国市场对更高质量产品的需求, 位于中国江苏宜兴的Jiang Run Copper Co Ltd为其铜棒轧制装置订购了一套SCR 7000系统。

在宣布合同时, Morgan Construction Company有色金属销售经理John T Buell说, 美国 GA, Carrollton的Southwire公司正向江苏提供Jiang Run SCR 7000系统。

根据合同条款, Morgan将为轧制装置提供1台输入和中间剪切装置、共13个轧制台 – 1个18英寸、4个12英寸和8个8英寸轧制台、1套酸洗机组、轧辊、倾翻装置、缠卷装置和1套输送装置。

轧制装置的保证速度为48公吨/小时, 大部分设备由Morgan的Worcester工厂生产。计划于2008年1月开始交货。

Morgan Construction Company – 美国
 传真: +1 508 755 6111
 电子邮箱: sales@morganco.com
 网站: www.morganco.com

JIANGSU JIN TAILONG

江苏金泰隆



2

江苏金泰隆作为中国最大的钢帘线成套设备生产厂家，在持续数年为客户提供高性价比设备的同时，还致力于高新产品的创新和研发。并和世界一流的轮胎帘线公司建立了长期稳定的合作关系，快速将研发成果投向市场。为中国和全球各大轮胎钢帘线公司提供高质、价廉、世界领先水平的成套设备。

JIANGSU JINTAILONG is the largest equipment manufacturer in China for the steel cord making industry. Over the years we have made high-quality, cost-effective machinery for some of the best-known steel cord producers in the global tyre market. Long-term relationships with our customers have been built upon our proven innovation and our ability to take designs through development and into real-time production. Come to JIANGSU JINTAILONG for high-quality, cost-effective steel cord equipment.

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4



5

1

电镀收放线机组
plating line

2

12/560 直进式拉丝机
dry drawing machine

3

23 水箱拉丝机
23 Wet drawing machine

4

双捻机
double twisting strander

5

25p 水箱拉丝机
wet drawing machine

6

CL 外绕机
wrapping machine

江苏金泰隆机电设备制造厂

JIANGSU JINTAILONG MECHANICAL AND
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邮编 (AREA CODE): 225400
电话 (TEL): 0086-523-7668197
传真 (FAX): 0086-523-7760660
EMAIL: jstl@vip.163.com
cellphone: 0086-13905264693
网址 (website): www.jsjintai.cn

6





○ 用于英国斯塔福德郡信号重建项目的电缆

Nexans确保合同得到正确执行

Nexans完成一项合同，制造和递交160多公里的专业轮轴计算机电缆，用于Balfour Beatty 铁路项目，以重新建设Trent峡谷29公里铁路路段的信号设施，该峡谷位于英国斯塔福德郡，靠近Lichfield。重建信号设施项目是大得多的网络铁道计划中的一部分，取名为TV4 (Trent峡谷4路铁道)，它将改进Tamworth、Lichfield和Armitage之间的铁道，将其从原来的2路更新和拓宽为4路铁道。

“该项目的一个特别挑战在于：导线尺寸选择和绞合对数变化导致轮轴计算机电缆规格可能存在很大的变化，这意味着现货供应是行不通的，” Nexans英国铁道基础设施业务发展经理Steve Robbins说。

“所以，采购提前时间量必须包括启动西班牙Santander工厂，以便为Balfour Beatty铁道项目生产预制定单。”

“在5月份第一批交货之后，我们每隔两周就发一批货，直到8月份的最后一批货。”

Nexans - 法国
传真: +33 1566 98484

电子邮箱: nexans.web@nexans.com
网站: www.nexans.com

新的全球总监

Ben McNamara已被晋升为CommScope的 BiMetals公司的全球销售总监。

Ben于2006年加盟CommScope，当时是BiMetals的EMEA区域销售经理，他工作勤奋，努力扩大该市场，为公司带来了他在BiMetals的19年销售、营运和总体管理经验。他拥有英国利物浦大学市场管理学学士学位和英国威尔士大学MBA学位。

支持Ben新职责的将是Robert McEllen，他被晋升为BiMetals NAR/CALA销售经理。Robert于2005年返回CommScope，拥有10年担任线缆工业各种工程和销售管理职务的经验。

在此之前，他于1987到1995年是新泽西Claremont的Network Division的一名工艺工程师，Robert拥有乔治亚技术学院陶瓷工程学士学位。

CommScope - 美国
传真: +1 704 883 7582

电子邮箱: bimetals@commscope.com
网站: www.commscope.com

Morgan的更新带来更好的性能

根据轧制装置经理 Danie Devapiriam的介绍，在安装Morgan Construction Company的No-Twist Mill® (NTM) 引导更新之后，位于美国南卡罗来纳州乔治敦的ArcelorMittal Georgetown钢铁厂的轧制装置取得了重大的应用改进。

“2007年5月，我们完成了总体更新，我们轧制厂的2个轧制台采用了Morgan最新的引导设备。”

“在更新前，我们老式的NTM设备经历了许多延误和修补。”

“在更新静态接收导轮和设备、静态发送导轮和设备、以及X-夹辊输入引导系统之后，包括对精密光学对中设备的更新之后，我们的修补率大幅下降，而且还改进了产品公差，降低了轧制装置的颤振。”

“总之，从过去的5个月可以看到，此次更新对我们的性能和效益的改进均高于期望值。”他总结到。

Morgan Construction Co - 美国
传真: +1 508 755 6140
电子邮箱: sales@morganco.com
网站: www.morganco.com

Teknor Apex开始在中国的生产

新的Teknor Apex工厂在中国苏州已开始生产线缆的Apex® PVC料，包括护套配方，用于快速增长的通信、数据和电子互联电缆市场。所提供的Apex护套料可用于(美国)保险商实验规定的干线级(CMR)和商用级(CM)电缆应用。另外，能在苏州保持用于增压级(CMP)电缆的Fireguard®料存货，用于当地市场。

中国境外客户能继续从Teknor Apex的分公司新加坡聚合物公司(SPC)获得Apex电缆料。Teknor Apex料技术均转让给了SPC和Teknor苏州，这样就可以在当地生产带材料，精确地复制Teknor Apex在美国生产的材料。

这些产品已在事实上满足了美国、加拿大、欧洲和日本所有关键的法定规范和工业标准，用于它们的目标市场应用。现在，Teknor Apex为现有的线缆Apex料提供RoHS符合性变通，这些不含铅稳定剂的产品不会影响产品的物理和电气性能，与含铅稳定剂的产品相比，在价格也有可比性。

Teknor Apex - 美国
传真: +1 401 729 0166
电子邮箱: info@teknorapex.com
网站: www.teknorapex.com

HGSB High Speed Braiding Machines

HGSB High Speed Braiding Machines



HGSB-16D型极细高速编织机
HGSB-16D Thin Wire Speed Braiding Machine



缠绕机
Copper Wire Shielding Machine



HGSB-16A/24A型高速编织机
HGSB-16A/24A High Speed Braiding Machine

Characteristics:

This kind of machine uses high technological frequency conversion control and SCM controlling technology. It can control sensitivity, braiding with high speed and automatically alert operators to break-downs.

Quiet, strong and reliable, the spindle stand has an automatic lubrication system and safe fire-fighting cover. This kind of machine weaves not only copper wires but also other metal wires, such as MG-AL, alloy wires, stainless steel etc.

The volume of the spindle can be loaded to 1.5kg. The spring tension is slight tuned when handling different specification wires without the need to change the springs.

本机电气控制采用高科技的变频控制和电脑单片机控制技术,可无级调速,具有高速编织,故障自动报警,低噪音,高可靠性,高精度,高速度和高耐磨等特点。采用特定的编织方式,锭子座具有自动张力控制机构,并有自动润滑系统及安全防护罩。该机不仅可以编织铜丝,其余金属丝如铝镁合金丝,不锈钢丝等同样都可以编织,本编织机锭子座较大,满盘时可达1.5公斤铜丝,与其它机型相比,编织性能优越,本机无需更换弹簧,只需微调弹簧张力即可。



Teflon Extruder
铁氟龙挤出机



HGSB-16E/24E型高速编织机
HGSB-16E/24E High Speed Braiding Machine



八字穿孔打网机
Takeup With Hole



HGSB-32/36/48 High Speed Braiding Machine

杭州三普机械有限公司
Hangzhou SANP Machinery Co., Ltd

ADD: GaoQiao Industrial Zone, Fuyang, Zhi Jiang, China
Tel: 86-571-63389241 Fax: 86-571-56808333
Phone Number: 13706815061
http://www.hztongda.com
E-mail: tytd@hztongda.com



SANP MACHINERY

Sub-Branch: DongGuan Sanp Electrica CO., Ltd
Address: No. 12 NongLin Road, LongBei Ling, TangXia Town, DongGuan City
Tel: 86-769-87901169
Fax: 86-769-87901161
Contact: Mr. Bao 13038867612

Watched by Europe, two British mobile phone operators join forces to share networks

T-Mobile UK and 3 UK announced 31st December that they are combining their third-generation networks in a move to save each of them \$1.5 billion over the next decade. Vodafone and Orange, two other British mobile phone companies, have been talking about going the same route at least since February of last year. In theory, at least, such agreements make good sense. In 2000, European mobile phone companies spent some \$145 billion on 3G licences, then spent billions more building networks intended to generate enormous profits through the enhancement of mobile Internet services. Now, seven years have passed, and mobile phone operators still struggling to market their 3G wares. Pooling their networks would lighten operating costs while they wait for their subscribers to become willing to pay for slower 3G connections that net them portable Internet.

So far, however, paying customers have exhibited a stubborn determination to stay with the faster download speeds offered by fixed-line broadband connections. If that can be broken, and fairly soon, the industry will likely see more such network-sharing agreements beguiling the time – and easing the financial strain – while the phone companies bring their 3G technology up to speed. Faster speeds are again being promised, this time by way of a High-Speed Downlink Packet Access, or HSDPA, which is being billed as several times faster than the original 3G networks. T-Mobile UK and 3 UK are creating what they say will be the largest HSDPA network in Europe. Analysts are adopting a wait-and-see attitude toward both the new technology and the usefulness of network-sharing short of outright merger. Many believe that only consolidation across the industry will spell success for 3G. Meanwhile, T-Mobile and 3 UK have begun their own consolidation. Like a touring company, they will be trying out their network-sharing in rural areas first.

Alcatel-Lucent sells its stake in a Dutch fibre vendor

Draka Comteq BV was formed in 2004 when Amsterdam-based Draka and Paris-based Alcatel-Lucent combined their optical fibre and communications cable assets. Now, AlcaLu is selling its 49.9% stake in the fibre vendor to Draka Holding NV for \$301 million in cash. What has prompted the sale? International news editor Ray Le Maistre posed the question in *Light Reading* for 18th December, and solicited this answer from an AlcaLu spokesman: “[We] had a good opportunity to get out of this non-core asset and to help Draka further develop its business. Draka Comteq’s development has been very successful so far, and now the company needs to further develop with other partners. We believe that for further development, Draka needs to have full control of Draka Comteq.”

Mr Le Maistre noted that analysts had been suggesting for some time that AlcaLu should reconsider its position in the mobile infrastructure market, ‘an increasingly cut-throat sector that’s

had a negative impact on AlcaLu’s financial performance in 2007.’ He also cites ‘industry chat’ to the effect that the vendor has been considering selling some of its assets to free up cash for acquisitions, and that the Draka stake sale might be the first of a number of divestments.

Profit outlook for T-Mobile USA disappoints its German parent

Deutsche Telekom AG, Europe’s largest telephone company, said investments in its American mobile-phone unit T-Mobile USA will hurt the division’s profitability growth over the next two years. As reported by Kenneth Wong of *Bloomberg News*, T-Mobile USA Chief Executive Officer Robert Dotson told a conference in Phoenix on 9th January that spending on networks and on faster wireless services will prevent the profit margin from reaching a ‘mid-30s’ per cent target. The fourth-largest US wireless company had budgeted \$10.3 billion in capital spending in the three years through 2009. (‘Deutsche Telekom Spending to Hurt US Profitability,’ 10th January)

Mr Wong reported that Rene Obermann, the CEO of Bonn-based Deutsche Telekom, is expanding T-Mobile to make up for more than four years of declining fixed-line phone revenue in Germany. Last year, T-Mobile USA agreed to buy SunCom Wireless Holdings Inc for \$1.6 billion, adding about 1.1 million mobile-phone customers in southeastern US and Puerto Rico. T-Mobile International, which sells services across 11 European countries and the US, last year also acquired France Telecom SA’s Orange mobile-phone unit in the Netherlands.

Mr Dotson told *Bloomberg* that T-Mobile USA has not seen any signs of cooling customer demand for wireless data services. “[That is] a steep curve that goes north,” he said at the investor conference in Arizona, organised by the banking giant Citigroup. Deutsche Telekom bought Voice-Stream Wireless Corp, now T-Mobile USA, for \$35 billion in 2001. T-Mobile USA added 857,000 subscribers in third-quarter 2007 for a total of 27.7 million at the end of September. It lags behind AT&T, Verizon Wireless, and Sprint Nextel Corp in numbers of subscribers.

Ⓞ In the same week that Deutsche Telekom delivered the sobering news of its US unit, the largest US phone company – AT&T Inc – said that its consumer business faces ‘softness’ because of slowing economic growth, triggering the biggest drop in the company’s stock value in more than five years. AT&T said the pressure comes from its having disconnected great numbers of home-phone and high-speed Internet clients for failure to pay their bills. The softness has not, the company said, spread into the mobile-phone unit.

Elsewhere in telecom . . .

Ⓞ As reported in the *Economic Times* for 10th January, India’s Department of Telecom reconsidered the applications of six companies for telecom licences, which it had rejected only two days earlier on technical grounds. The companies – Allianz Infratech, S Tel, Spice Communications, Indiabulls-owned Selene, Parsvnath, and Cheetah Corporate Services – were expected to be issued letters of intent permitting them to offer their services in the areas (‘circles’) covered by their applications.

- © After paying the licence fee, each letter-of-intent holder is entitled to 4.4 MHz of GSM (global system for mobile communications) spectrum per circle, subject to availability. The New Delhi newspaper said that the 'complete turnaround' by the agency apparently reflects a decision in favour of 'an easier and safer option' for promoting mobile services in India.
- © China Netcom Group Corp, the smaller of the two Chinese fixed-line carriers, has begun selling a combined package of telecommunication and computer services to companies to help accelerate growth of sales to businesses, it was announced by Netcom's Hong Kong unit on 10th January. Beijing-based Netcom also said it may set up overseas offices in addition to those it now operates in Hong Kong, Tokyo, London, and Los Angeles. The dominant Chinese fixed-line operator in ten northern provinces and cities including Beijing, Netcom is following rival China Telecom Corp in seeking fees for designing and managing the networks of corporate clients. The two carriers are losing phone customers to wireless companies as lower prices prompt consumers to switch to mobile-phone services.
- © The government of China has approved a plan to build an improved wireless broadband cellphone network to elevate the country's competitiveness with homegrown technology. The plan is 'a major thrust in the future of China's information technology,' China's State Council said on 11th December, but it provided no details.
- © Wireless chip maker Qualcomm Inc (San Diego) said that an unfavourable ruling in a patent dispute with Irvine-based Broadcom Corp would hurt its business in the short term. A federal judge in California ruled on 1st January that Qualcomm could sell, through January 2009, some chips whose designs infringe three patents held by Broadcom, but must pay royalties. After that, Qualcomm is permanently barred from infringing the three Broadcom patents. The court also issued an immediate injunction on WCDMA products that were found to infringe Broadcom's video encoding patent. Qualcomm said that it expected to have new WCDMA chips in cell phones before the end of March.
- © Nokia Siemens Networks said in Helsinki on 2nd January that it had agreed to buy Apertio Ltd, of Britain, for \$205 million. The deal, which was expected to close in the first quarter, would result in a new Apertio business line within the Nokia Siemens Converged Core business unit. Closely held Apertio, a provider of real-time subscriber data applications for telecom operators, had sales 2007 of around \$41.2 million.
- © Motorola Inc (Schaumburg, Illinois) said on 4th January that it plans to offset revenue losses from its declining handset sales by offering a portable pocket-size television set. The device, powered by a four-hour battery, can receive live TV signals and play saved programmes and video clips on its 4.3" screen, said Motorola. It is available from phone companies, broadcasters and retailers. The Mobile TV DH01 will compete with media players that include Apple's iPod Touch, which has a 3.5" screen and sells for as much as \$399. Motorola did not give a list price for its unit. Sales of mobile phones, which account for more than half of Motorola's revenue, dipped after the company failed to match the success of its Razr model. More than 110 million units of the Razr have been sold since its introduction three years ago. According to *Bloomberg News*, 900,000 units of the thinner Razr 2, which went on sale in the US in August, were sold in the third quarter of last year.
- © Samsung Electronics Co Ltd said on 6th January that it is studying the feasibility of challenging its bigger rival Nokia in emerging markets with a low-cost (\$40-\$50) mobile phone that comes in a choice of colors. Nokia, of Finland, enjoys a lead in these markets. Samsung, of South Korea – No 2 in the mobile phone industry worldwide in the third quarter of 2007 – gained market share for the year by moving away from premium models to offer more medium- and low-cost phones. The average selling price of Samsung's mobile phones was \$151 in third-quarter 2007, compared with the average for 2006 of \$176. Its market share is estimated at 14% or higher in 2007, up from 11.4% in 2006.
- © The Internet phone-service provider Vonage Holdings Corp (Holmdel, New Jersey), said on 1st January that it had resolved a patent dispute with Nortel Networks Corp (Toronto, Canada) that had threatened to shut down some Vonage calling features. The companies are to drop claims relating to past damages; give up claims related to other patents; and each will license three patents to the other. The agreement leaves Vonage with one major patent dispute in the works, according to a list of cases the company included in a 14th November regulatory filing. After it lost an infringement trial to Verizon Communications in March 2007, Vonage, which has never reported a profit, said it could face bankruptcy. The company settled that case after an appeals court upheld most of the verdict. In September, it lost a suit brought by Sprint Nextel Corp and settled the following month, just before the Verizon agreement. Vonage also settled litigation brought by AT&T and the patent holding companies Klausner Technologies and Rates Technology.
- © Wang Jianzhou, president of China Mobile, said on 11th January that the company had completed its construction of the homegrown TD-SCDMA (time division-synchronous code division multiple access) large-scale technology application testing network in eight cities and would begin network application testing shortly. Referencing the Chinese news agency Xinhua, *Telecomasia.net* reported Mr Wang as saying that China Mobile is in the lead in releasing the TD-LTE (long-term evolution) standard, which is now the sole post-3G TDD (test-driven development) standard and has been accepted by the major telecom operators of next-generation mobile networks.
- Telecomasia.net* also noted China Mobile's pledge to provide special mobile telecom services during the Beijing 2008 Olympic and Paralympic Games, to be held 8th-24th August, as well as to advance the development of overseas markets.

欧洲关注两家英国移动运营商共享3G网络

英国电信运营商T-Mobile UK和3 UK 12月31日宣布将合并它们的3G网络,这样可在未来10年内节省15亿美元。而且,从去年二月份开始,另外两家英国移动运营商Vodafone和Orange也在商讨同样的事情。至少在理论上这样的方向是合乎情理的。2000年欧洲移动运营商在3G执照上投入了大约1,450亿美元,此后在网络建设方面又投入了上百亿美元,希冀能够通过强化移动因特网服务产生大量的利润。现在七年过去了,移动运营商仍然在为营销3G而殚精竭虑。整合3G网络可以降低运营成本,这样它们可能会等到用户愿意为提供便携因特网接入的低速3G网络付钱。

但到目前为止,付费用户更愿意选择固网宽带连接提供的高速下载。如果这种情况不能够被打破,不久电信业就会看到更多这种消磨时光、减少开支的网络共享合同,同时运营商想方设法提高3G技术的速度。这次运营商又承诺了更快的速度,采用高速下行链路包接入(HSDPA)。根据宣传,HSDPA的速度要比原始的3G网络快几倍。T-Mobile UK和3 UK正在建设它们称之为欧洲最大的HSDPA网络。

对于这种新3G技术和在没有进行恰当的合并的情况下进行网络共享,分析人士的看法是等等看。许多分析人士认为只有跨越整个行业的整合才能实现3G的成功。同时,T-Mobile和3 UK已经开始合并工作。和旅游公司类似,它们的网络共享首先从农村地区开始。

阿尔卡特朗讯出售荷兰光纤厂股份

Draka Comteq BV是2004年由阿姆斯特丹的Draka和巴黎的阿尔卡特朗讯合并光纤和通信电缆部门组建的合资企业。现在阿尔卡特朗讯将该公司里49.9%的股份以3.01亿美元的价格以现金出售给了Draka Holding NV。

是什么促成了这次股份出售呢?《亮闪之处》(Light Reading)的国际新闻编辑Ray Le Maistre 12月18日在杂志上刊登了他采访的一位阿尔卡特朗讯发言人对这个问题的回答:“这是我们放弃这种非核心资产的良好机会,也有利于Draka进一步拓展业务。Draka Comteq的发展到目前为止已经非常成功,现在它需要和其他合作伙伴共同把事业进一步推向前进。我们认为为了这个目标,Draka需要对Draka Comteq完全控制。”

Le Maistre提到有段时间分析家们曾建议阿尔卡特朗讯应该重新考虑其在电信基础设施市场中的定位:“越来越激烈的竞争沉重打击了阿尔卡特朗讯在2007年的财务状况。” Le Maistre还提到根据“圈内人的消息”,阿尔卡特朗讯正在考虑出售部分资产,以获取现金进行购并,而出售Draka的股本则是一系列投资活动中的第一起。

美国T-Mobile的利润预期使德国母公司感到失望

欧洲最大的电信运营商德国电信表示对美国移动运营商T-Mobile USA的投资将在未来两年内损害T-Mobile USA的盈利能力增长。根据彭博资讯记者Kenneth

Wong的报道,T-Mobile USA的首席执行官于1月9日在菲尼克斯的一个会议上表示在网络和高速无线服务方面的投资使公司的毛利率难以超过35%。这家美国排名第三的无线运营商计划到2009年总共进行资本投资103亿美元(见1月10日《德国电信的投资损害美国T-Mobile利润率》)。

根据Wong的报道,位于波恩的德国电信首席执行官Rene Obermann称增加对T-Mobile的投入是为了弥补四年多来德国本土固定电话收入的下降。去年,T-Mobile USA同意出资16亿美元购买SunCom Wireless Holdings Inc,从而获得了美国东南部和波多黎各的110万移动电话用户。在11个欧洲国家和美国开展业务的T-Mobile International去年还购并了法旗下的荷兰Orange移动部门。在接受彭博资讯采访的时候,Dotson表示T-Mobile USA还没有看到任何用户对无线数据服务的需求降温的迹象。他在菲尼克斯的这个由花旗集团投资人会议上表示:“这是一条陡直的上升曲线。”

T-Mobile在2007年三季度新增了85.7万用户,截至9月末用户数达到了2,770万,但仍然落后于AT&T、Verizon Wireless和Sprint Nextel Corp。

就在同一个星期,德国电信还公布了另一个不好的消息。同为德国电信子公司的美国最大电信运营商AT&T Inc表示其消费者业务因为经济增长放缓面临“疲软”,同时导致公司股票五年来的最大跌幅。AT&T表示,由于大量家庭电话和高速因特网用户无法支付话费,AT&T断开了他们的服务。德国电信表示这种疲软状况还没有扩散到移动电话部门。

其他电信新闻...

① 根据《经济时报》1月10日的报道,印度电信部在重新考虑六家公司对电信执照的申请,而两天前印度电信部刚刚以技术原因拒绝了这些申请。这些公司,包括Allianz Infratech、S Tel、Spice Communications、Indiabulls-owned Selene、Parsvnath和Cheetah Corporate Services预计将收到印度电信部出具的意向函,允许在它们申请的区域内提供服务。在支付许可证费用后,每个意向函的持有公司将根据现有可用频谱的情况,在每个区域获得4.4MHz带宽的GSM频谱(全球移动通信系统)。这家新德里报纸还称印度电信部态度180度大转弯显示了政府为促进移动通信在印度发展而创造便捷安全的环境的态度。

② 根据网通香港1月10日宣布的消息,中国两家固网公司中较小的网通公司为了促进业务的发展,开始向企业用户销售电信和计算机打包服务。位于北京的网通还宣布除了已经在香港、东京、伦敦和洛杉矶设立的分支机构,网通还可能设立其他海外分支机构。这家主流的中国固网运营商在包括北京在内的10个省份和城市经营固网业务。和竞争对手中国电信一样,网通也在试图通过帮助企业用户设计和管理网络来收取费用。由于移动通信费用的降低使更多用户转向移动通信服务,两家公司正在流失固网用户。

③ 无线芯片制造商高通(圣迭戈)表示与位于欧文的博通的专利诉讼的结果对自己不利,可能影响短期内的业务。根据加州联邦法官1月1日的判决,高通从现在到2009年可以销售设计侵犯三项博通专利的部分芯片,但必须支付专利使用费。2009年后,高通不得再侵犯这三项博通专利。法院还发出了一个立即生效的禁止令,禁止侵犯博通视频编码专利的高通WCDMA产品。高通表示在3月底以前将会开发出新的WCDMA芯片。

④ 中国移动总裁王建宙1月11日表示中国移动已经建成8个城市的国产技术TD-SCDMA(时分-同步码分多址)大规模技术应用测试网络,并将在短期内开始网络应用测试。根据中国新闻机构新华社的报道,Telecomasia.net报道说王建宙表示中国移动在发布TD-LTE(长期演进)标准方面居于领先地位。TD-LTE已经成为唯一的后3G TDD(测试驱动开发)标准,而且已经赢得主流的下一代移动网络电信运营商的认可。Telecomasia.net还报道称中国移动承诺在2008年8月8日到24日之间的举行北京奥运会和残奥会期间提供特殊的移动通信服务,并将拓展海外市场。

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Telecommunications

Even with American partners, Chinese telecom Huawei arouses security concerns in Congress

Already huge, Huawei Technologies has an ambition: to dominate telecom equipment markets all over the world, starting with the United States. From its headquarters in the southern city of Shenzhen, Huawei has made a strong start. Late last year, it joined Bain Capital Partners (Boston) in a \$2.2 billion takeover bid for another Massachusetts company, the networking pioneer 3Com Corp (Marlborough), which makes systems to protect against computer hackers.

In Bain Capital, Huawei has a partner with an impeccable American pedigree. Bain, a private-equity firm, was founded in 1984 by Mitt Romney, a former governor of Massachusetts and now a leading contender for the Republican presidential nomination. Bain said in a statement that Huawei – with an initial stake of 16.5% and an option to go as high as 21.5% – would not have any operational control over 3Com, which ‘will be firmly controlled by an American company’. But even with the right connections giving the right assurances, Huawei may not find it that easy to find a berth in the US. Foreign access to American infrastructure has a tendency to set off alarms in Congress. It will be recalled that lawmakers raised fierce objections to China’s biggest offshore oil producer CNOOC, which in 2005 was thwarted in its attempt to purchase the California gas company Unocal for \$18.5 billion. Worries about foreign ownership have derailed other Chinese attempts to buy into high-value American companies.

With its 70,000 employees and strong backing from the Chinese government, Huawei makes an unlikely phantom. But, as noted by Ariana Eunjung Cha, of the *Washington Post* Foreign Service, the fact that no one knows exactly who owns the company contributes to congressional unease about the Huawei deal. “Technically,” she wrote, “Huawei is a private venture, not state-owned. But the company won’t reveal information about its shareholders except to say it’s ‘100% employee-owned’, with its chief executive owning one per cent.” (‘Telecom Firm in China Sets Sights on US Market,’ 6th January)

Predictably, a congressman – Rep Thaddeus McCotter, of Michigan, chairman of the House Republican Policy Committee – has called on the Bush administration to block the deal. The research organisation Rand Corp provided the rationale, declaring that Huawei has ‘deep ties’ with the People’s Liberation Army. Not only is the Chinese military a customer of Huawei’s, Rand said in an analysis prepared for the US government, but also was a ‘political patron and research and development partner.’

Huawei officials, in a written response to questions, dispute those assertions. Moreover, Ms Cha reported, “Xing Houyuan, dean of the Beijing-based Overseas Investment Research Center, which is under China’s Ministry of Commerce, said efforts to block the deal amount to discrimination – an attempt by the United States to protect key industries like telecommunications.”

❖ However the action plays out, Huawei seems unlikely to be driven from the field of battle as readily as, say, CNOOC. The *Washington Post* points out that, according to a 2002 article in *CEO/CIO*, a trade magazine run by China’s Ministry of Information Industry, as a competitor Huawei is a ‘violent attacker.’ Its sales force was known for blowing into a town dominated by a competitor and winning over contracts ‘by any means necessary.’

One wonders if Rep McCotter oughtn’t to ponder that last phrase.

Questions are raised about the easing of export controls on ‘sensitive’ technology slated for China

In marked contrast to the Huawei unpleasantness (see above), in mid-2007 a conspicuously more trusting attitude toward China was demonstrated by, of all people, President George W Bush. Despite tight curbs on sharing telecommunications and other technology that might lend itself to military applications, his administration quietly eased some restrictions on the export of politically delicate technologies to China. The new approach was intended to help US companies increase sales of high-tech equipment to the Chinese.

Now, however, the administration is facing questions about whether some equipment – newly authorised for export to Chinese companies deemed trustworthy by Washington – could aid China in modernising its military.

As reported by Steven R Weisman in the *International Herald Tribune*, American weapons experts have also suggested that China might share the expertise with Iran or Syria, with both of whom the US has vexed relations. (‘Doubts raised on sales of US high-tech equipment to China,’ 2nd January)

The technologies in question include telecommunications equipment, sophisticated composite materials, advanced aircraft engine parts, and navigation systems. The questions were to be aired in a report set for mid-January release by the Wisconsin Project on Nuclear Arms Control, an independent research foundation that opposes the spread of arms technologies.

Mr Weisman said that the US government’s new approach is part of a drive to require licences for an expanded list of export technologies in fields of interest to China’s military. But, even as it imposes new requirements for these transfers, the administration is also validating certain Chinese companies to import the technologies without licences. Five such companies were designated in October. As many as a dozen others are up for possible designation.

Mario Mancuso, Under Secretary of Commerce for Industry and Security, defended the new system of licensing-cum-exemptions. “We believe that the system we have set up ensures that we are protecting our national security consistent with our goal of promoting legitimate exports for civilian use,” he told the *Herald Tribune*.

“We have adopted a consistent, broad-based approach to hedging against helping China’s military modernisation.”

The Wisconsin Project thinks otherwise. Its report, made available in advance to the *New York Times*, asserts that two non-military Chinese companies designated as trustworthy are, in fact, high-risk because of links to the Chinese government, the People's Liberation Army, and other Chinese entities suspected in the past of ties to Syria and Iran. In a reprise of the Huawei situation, one of the Chinese companies, BHA Aero Composites, is owned 40% each by two American companies: the aircraft manufacturer Boeing and the aerospace materials maker Hexcel. The remaining 20% is held by the Chinese government-owned company China Aviation Industry Corp I, also known as AVIC I.

- ❖ US business groups that advocate greater technology-sharing with China say that the administration has been cautious enough in its new policy, particularly in choosing Chinese companies that have American partners or owners.

The three other Chinese companies named in October 2007 as 'validated end-users' are Applied Materials China, a subsidiary of Applied Materials, a maker of semi-conductors based in California; Chinese facilities operated by National Semiconductor, another US company; and Semiconductor Manufacturing International, based in Shanghai. Among them, the five companies exempted from the licensing requirements accounted for \$54 million of the \$308 million in exports to China that came under those restrictions in 2006.

As the *Herald Tribune's* Mr Weisman points out, the US Commerce Department tries to ease the way for American companies to export to markets overseas, and there has been a particular emphasis on selling to China. Even as congressional leaders of both parties called on the Bush administration to exercise greater vigilance toward China, the United States in 2007 was generating a trade deficit with that country estimated at nearly \$300 billion. As Mr Mancuso, of the Commerce Department, observed: "China is a huge market for our commercial technology exports."

Aerospace

On target to become No 1 worldwide, Emirates Airlines sees the US as key

It is only a matter of time, according to Sheik Ahmed bin Saeed al Maktoum, before Emirates Airlines becomes the world's largest carrier. The chairman and chief executive of Emirates expects that to happen by the year 2015, and his projection is well founded. The airline, based in Dubai, part of the United Arab Emirates, is growing faster than any other airline. As noted by staff writer Peter Pae of the *Los Angeles Times*, most of the airline's growth until recently has been along routes over the Atlantic and in the Middle East. But now it is setting its sights on the US, particularly Los Angeles. With Los Angeles service, Emirates could target the sizable Muslim community in Southern California; and drawing the Hollywood crowd would advance the ambitions of tiny but mightily ambitious Dubai to become the film-making and entertainment capital of the Middle East. ('Emirates Eyes US to Reach Lofty Goal,' 7th January)

Dubai and the American West would appear to be a good fit. United Arab Emirates, a country made up of seven emirates, is considered one of the more westernised Arab nations. And Dubai, like the US, is striving to reduce its dependency on oil as a revenue source. Oil that made the Persian Gulf region rich is drying up in Dubai. When the oil is gone, the country – already a major air transportation hub – intends to have a major aerospace industry to take up the slack. Mr Pae made it plain that the US is a prominent factor in those plans. In December, Emirates Airlines threw a \$2-million party in Houston for a Dubai sheik who was in Texas to celebrate the start of non-stop service between Houston and his home emirate. The event, for some 700 guests, held under the massive retractable roof of a 41,000-seat baseball stadium, was from all accounts one of the most lavish private bashes the city had had in a while. Or at least, Mr Pae wrote, 'not perhaps since the free-spending oil boom days.'

For its part, the US is striking up a very dynamic new friendship. As summarised by Mr Pae, the brief history of Emirates Airlines is extraordinarily impressive. Started in 1985 with two leased planes, it now operates a fleet of 112 long-haul, wide-body jets. It gets a new plane – typically at a cost of \$200 million to \$300 million each – about every two weeks, and it has placed orders for 245 planes worth \$60 billion. It is the largest buyer of the \$350-million, double-decker Airbus A380, the world's largest passenger jet. It has ordered 58 of these, nearly one-third of all orders for the plane.

- ❖ Emirates hopes some day to command a transpacific route, taking travellers around the globe in both directions. Now, with \$15 billion in seed money, Sheikh Ahmed has started Dubai Aerospace Enterprise, whose interests include creating and acquiring companies that make, maintain, and repair aeroplane parts. The new entity has already acquired two aircraft maintenance companies in Los Angeles; and, in December, said it was ordering 200 planes for its leasing business from Boeing Co and Airbus, which would make it the world's third-largest aircraft leasing company.

Richard Aboulafia, an aviation analyst for research firm Teal Group Corp told the *Times*: "They have a holistic aviation industrial policy. These are all growth areas, so if traffic doesn't pan out they can get into aircraft repair and leasing."

Elsewhere in aerospace . . .

- ❖ In the most recent edition of its annual 'Current Market Outlook,' Boeing Co (Chicago) predicted that China will need to buy 3,400 aircraft at a cost of \$340 billion over the next two decades as its air travel market grows to rival that of North America in size. The forecast was higher than earlier projections by the big aircraft maker and its European rival Airbus Industries, which put Chinese demand at 1,900 to 2,600 aircraft over two decades.
- ❖ Boeing expects the total Chinese fleet to nearly quadruple to 4,460 aircraft by 2026. Over the same period China's domestic air travel market will grow nearly fivefold 'to become slightly larger than today's Intra-North American market,' the report said.



Over the forecast period, China is projected to have the world's fastest-growing market, making it the largest market outside of the US for new commercial airplanes.

- ❖ In other news of Boeing, the company said that the South Korean budget airline Jeju Air Co had ordered five 737-800 planes, valued at \$370 million at list prices, from the American aircraft manufacturer. In a 1st January statement, Boeing said it had recorded orders for more than 4,400 of its 737s, and has unfilled orders on the books for more than 1,900 planes worth more than \$140 billion at current list prices.

Automotive

Toyota overtakes Ford as second to General Motors in US sales

Breaking Ford's 75-year hold on the No 2 position in the US, Toyota Motor Corp in 2007 sold 48,226 more cars and trucks there than Ford. According to figures released on 3rd January by the Japanese auto maker, its US sales were up 3% last year. Ford, with sales off 12%, said 2007 marks the first time since 1931 that Ford Motor Co was not in second place to General Motors Corp in US sales.

Someone who has a perhaps unique perspective on the reversal is Jim Farley, who recently became Ford's global marketing chief after a career at Toyota. Taking a constructive view of the results for 2007, Mr Farley said the new numbers would not effect any changes in Ford's plan for recovery.

"In fact, it actually accelerates the way we're running the business," Farley told Associated Press auto writer Dee-Ann Durbin. "It accentuates the difference between how we're running the business and how our competitors are running the business. It requires us to stick to the plan, no doubt. But it also requires us to really accelerate the development of new products." Mr Farley noted that Ford had some winners in 2007, notably with its Edge and Lincoln MKX crossover models. Ford crossovers grew 62% in the year, far outpacing the industry average of 17%.

As for Toyota, the company has been typically reticent about both of its spectacular advances in 2007: over Ford in the US, and its probable overtaking of GM as world's top producing auto maker. (GM has estimated its sales total for 2007 at 9.3 million; Toyota, 9.36 million.) But this is not to say that Toyota is thinking of reining in its vaulting ambition.

The Japanese auto giant said it expects to sell 9.85 million vehicles worldwide this year, up from a previous target of 9.8 million.

Toyota does not expect to improve its performance in the US in 2008, given the persistent housing slump and problems deriving from defaults on sub-prime mortgage loans. However, even here there are consolations for the company, which has a devoted and rock-solid American following. The US consumer may pass on the purchase of a new car this year, but only from economic constraint – not from any 'patriotic' fervour of the kind seen when Japanese auto makers penetrated the US market in the 1980s.

Upstart Tata Motors moves closer to acquiring luxury models Jaguar and Land Rover from Ford

Ford Motor Co, on 4th January, named Mumbai-based Tata Motors the preferred bidder for two of the world's most prestigious car brands. Tata, which beat out a rival Indian auto maker and a US private equity firm, is understood to have entered the final phase of negotiations with Ford over Jaguar and Land Rover, for which no firm timetable was announced. Ford acquired Jaguar in 1989 and Land Rover in 2000 for a total \$5.2 billion. These purchases were intended to complement the acquisitions of Aston Martin and Volvo, and all four brands became part of the Detroit auto maker's Premier Automotive Group. In May 2007, Ford sold Aston Martin to a consortium of British investors for \$921 million. While it must be a wrench to Ford to part with Jaguar and Land Rover, as well, industry analysts believe that the three top-shelf acquisitions have never fulfilled the company's ambitions for them. Ford has said it will hold on to Volvo, and intends to invest to bring the brand upscale.

Los Angeles Times staff writer Ken Bensinger considered what the purchase of Jaguar and Land Rover will mean for Tata, which built its first car only a decade ago and is known for its low-priced cars geared to Indian buyers: "The acquisition would be a significant step forward for Tata [whose] control of the two British marques would immediately make it a player in the luxury market. It also would provide the Indian car maker access to far more modern technologies as well as new markets." Among the other bidders for Jaguar and Land Rover were Indian auto maker Mahindra & Mahindra and One Equity Partners, a New York private equity firm that makes investments for JPMorgan Chase. Ford has not provided information on the bidding for the two brands, but outside reports said the bids were in the \$1.5-billion to \$2-billion range. Tata's advance to the forefront of negotiations for Jaguar and Land Rover set Mr Bensinger to musing on the curious aspects of some cross-border acquisitions. He wrote: "Tata has recently garnered attention for its plans to release a sub-\$3,000 economy car. What synergies exist between the world's least expensive econobox and \$75,000-plus sports cars and luxury sports cars that top \$100,000 remains to be seen."

Hyundai and Kia see higher US sales in 2008

Hyundai Motor Co said on 4th January that it expects to increase its sales in the United States, its largest overseas market, by about 10% this year. Citing the American consumer's economic uncertainty for its failure to meet last year's goals there, Hyundai said it expects to sell 515,000 vehicles in the US in 2008, up from 467,009 in 2007. South Korea's largest auto maker had lowered its 2007 US sales target 8.1% to 510,000 in September, partly as a result of the belt-tightening apparently stemming from defaults on high-risk housing loans in the world's largest economy. Hyundai also said it was activating a previously announced plan to build its first factory in South America, and was looking for a site in Brazil. The annual production capacity of the plant is to be 100,000 vehicles. Hyundai affiliate Kia Motors – No 2 in South Korea – is also projecting a better



year ahead in the US, with sales there rising to 370,000 vehicles from 305,473 in 2007. The Hyundai Kia Automotive Group, based in Seoul, constitutes the world's sixth-largest auto maker.

The mortgage crisis

Personal bankruptcies in the US, curbed for a year, are again on the rise

Personal bankruptcy filings jumped 40% to more than 801,000 in the US in 2007, indicating the toll imposed by rising mortgage payments, job losses, and other financial pressures. The total number of such filings was around 573,000 in 2006, the first full year in which a new law made it more difficult for consumers to seek bankruptcy-court protection from creditors. That level was the lowest since 1998, according to data collected by the National Bankruptcy Research Center. Congress in 2005 enacted the biggest changes in US bankruptcy laws in a quarter-century, mandating an income test to determine a prospective borrower's ability to meet obligations. In that year, personal bankruptcy filings rose to more than 2 million, after having been in the vicinity of 1.5 million annually for most of the past decade. To beat the eligibility provisions of the new law, which went into effect in October 2005, some 600,000 filings were made in that month alone.

Now, after a moderate 2006, personal bankruptcies are on the way up again. According to the American Bankruptcy Institute, a research group in Alexandria, Virginia, the trend is likely to worsen this year. ABI Executive Director Samuel Gerdano said, "The roughly 40% spike in consumer bankruptcies during 2007 presages even higher filings this year, as the heavy consumer debt load is made worse by the home mortgage crisis." Senator Richard Durbin, Democrat of Illinois, said that an estimated 2.2 million homes might be lost to foreclosure in the coming months, and that up to a third of all homeowners are likely to see a decline in their home values.

The Senate is considering a bill that would expand the authority of bankruptcy judges to reduce the size of home loans. Under a bill introduced by Mr Durbin, judges could modify mortgages by treating them as secured debt only up to the market value of the property. Rob Hotakainen, reporting from Washington for the McClatchy Newspapers, noted that the issue 'is gaining plenty of attention on Capitol Hill', where leading Democrats are proposing to roll back the landmark bankruptcy law. But Mr Hotakainen also observed that some members of Congress "are leery of" any more government intervention in matters of personal money management. ('Bankruptcies Surge,' 7th January) President Bush piped up in December, with the suggestion of a five-year freeze on loan rates as a way to slow the pace of home foreclosures. However, it seems likely that, unless and until someone hits upon some way to save people from themselves, commentators will content themselves with hurling insults at the banks and mortgage companies that wrote sub-prime loans ('snake-oil salesmen', 'predators', 'swine') while the default crisis does its slow, termite-like work.

Dorothy Fabian – Features Editor

Success welds relationships



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电信新闻

联手美国合作伙伴, 华为仍难通过美国国会安全调查

虽然已经达到了相当规模, 华为技术有限公司仍然雄心勃勃: 要一统世界电信设备市场, 而且从美国开始。在位于南中国的深圳总部, 华为已经开了一个有力的开端。华为携手贝恩投资(波士顿), 以22亿美元的价格, 购并了另一家马萨诸塞州的网络先驱公司3Com Corp (Marlborough)。3Com主要生产防御计算机黑客的系统。通过与贝恩投资携手, 华为有了一个血统纯正的美国合作伙伴。贝恩是一家私人投资公司, 由前马萨诸塞州州长Mitt Romney创立于1984年。Mitt Romney现正在角逐共和党总统候选人。在一次发言中, 贝恩表示华为在3Com中初始股份为16.5%, 此后将增加到21.5%, 但不会控制3Com的实际营运。3Com的实际营运将由一家美国公司严格控制。

但就算有了正当关系保证的背景, 华为要登陆美国市场并非易事。外国公司涉足美国基础设施领域总是会触发国会的警觉。国会曾经坚决反对中国最大的海上石油公司中海油2005年以185亿美元购并加州天然气公司Unocal的意图。国会对外资的担忧也使其其他中国购买高价值美国公司的企图搁浅。华为目前有雇员7万名, 而且得到中国政府的大力支持, 这使华为公司显得有些神秘莫测。但正如《华盛顿邮报》海外部记者Ariana Eunjung Cha所报道的, 没有人清楚地知道华为公司的股权结构, 这是国会对华为小心翼翼的原因之一。她报道称: “从技术上来说, 华为是一家私人企业, 不是国企, 但该公司不愿意透露其股东的信息, 只是说‘100%’由员工持有, 其中首席执行官持有1%。”(见1月6日《中国电信公司亮相美国市场》)

可以预见的是, 代表密歇根州的议员Thaddeus McCotter (同时是国会共和政策委员会主席) 要求布什政府否决该项交易。研究机构兰德公司提供了理由, 称华为公司与中国军方过从甚密。在提供给美国政府的分析报告中, 兰德公司称华为不仅以中国军队为客户, 而且扮演政治赞助人和研发合作伙伴的角色。”华为公司的官员在书面答复中否认了这些指控。此外, Cha在报道中还称: “隶属商务部、设在北京的中国国际投资研究中心理事长Xing Houyuan表示美国否决此项交易的行为构成歧视, 是美国保护关键产业, 如电信业的举措。”

❖ 不管结局如何, 华为似乎不像中海油那样容易出局。《华盛顿邮报》还报道称, 中国信产部下属商业杂志《IT世界经理》2002年报道说作为竞争者的华为是一个“狂暴的攻击者”。“其销售团队以楔入对手云集的市场著称, 为赢得合同不择手段。”

不知道McCotter是否注意到了这最后一句。

放松对华敏感技术出口引发质疑

与华为的不愉快(见上文)恰成对比, 布什政府所有成员2007年年中对中国显示出了明显的信任姿态。虽然对电信以及其他可能用于军用的技术的严格限制没有丝毫放松, 布什政府暗中放松了某些政治敏感度高的技术对中国的出口。新姿态的意图在于帮助美国公司向中国出口高科技设备。但是现在在布什政府正在面临部分新授权可出口给值得信任的中国公司的设备是否会帮助中国进行军事现代化。根据Steven R Weisman在《国际先驱论坛报》上的报道, 美国武器专家还提醒说中国可能和伊朗或者叙利亚共享经验, 而后两国与美国的关系都很敌对(见1月2日《置疑美国高科技设备出口中国》)。

受到置疑的技术包括电信设备、高级合成材料、先进飞机引擎部件和导航系统。这些置疑将由反对扩散武器技术的独立研究机构威斯康星核军备控制研究项目(Wisconsin Project on Nuclear Arms Control)在1月中旬的报告中提出。Weisman表示美国政府的新举措是希望通过对更多的对有助于中国军事发展的出口技术实施许可证管理的计划的组成部分。但是, 即便美国政府对这些技术转让提出了新要求, 美国政府仍然在批准某些中国公司在无需许可证的情况下进出口这些技术。仅在2007年10月就批准了五家这样的公司。另有12家正在等待批准。

美国商务部副部长, 负责产业和安全的Mario Mancuso支持这个许可证加例外的新制度的时候表示: “我们认为我们设立的制度能够在保证我们的国家安全的同时促进民用的合法出口。”在接受《国际先驱论坛报》采访时, 他表示: “这是一项持续的、基础广泛的制度, 能够有效防止中国的军事现代化。”

但威斯康星核军备控制研究项目看法不同。在事先透露给《纽约时报》的报告内容中, 它坚称有两家批准为值得信任公司的中国非军方公司事实

上风险很大, 因为它们与中国政府、中国军方以及其他怀疑与叙利亚和伊朗有交往的中国机构有联系。与华为的情况类似, 其中一家中国公司——波海航空复合材料公司的40%的股份由波音持有, 40%由航空材料制造公司Hexcel持有, 剩余部分由中国国有的中国航空工业集团持有。

❖ 倡导与中国共享更多技术的美国商业团体表示布什政府的新制度已经足够小心了, 尤其是要求入围的中国公司必须有美国合作伙伴或者所有人。其它三家2007年10月批准为“合格最终用户”的中国公司为应用材料(中国)(Applied Materials China)(加州半导体制造公司Applied Materials的中国子公司)、美国国家半导体的中国分部以及位于上海的中芯国际。这五家免除许可证的公司占2006年对中国受限技术出口总额3.08亿美元中的5,400万美元。如《国际先驱论坛报》记者Weisman所指出的, 美国商务部力图为美国公司的海外出口业务扫清障碍, 因此特别重视对中国的出口。虽然两党的国会领袖都敦促布什政府对中国更加警惕, 但美国2007年对中国的贸易赤字仍然达到了大约3,000亿美元。如商务部的Mancuso副部长所说: “中国是我们商业技术出口的巨大市场。”

航空

期望成为世界第一的阿联酋航空把美国当做敲门砖

对Ahmed bin Saeed al Maktoum酋长来说, 阿联酋航空公司成为世界最大的航空公司只是个时间问题。作为阿联酋航空的董事长和首席执行官, 他预计这将在2015年实现, 而且他的预期是有充分的基础的。位于阿联酋迪拜的阿联酋航空公司的增长速度高于其他任何一家航空公司。

据《洛杉矶时报》特约撰稿人Peter Pae的报道, 该公司最近的增长大部分来自跨越大西洋的航线和中东地区的航线。但现在该公司看上了美国市场, 尤其是洛杉矶。通过在洛杉矶提供服务, 阿联酋航空公司就能开发南加州大量的穆斯林客户。同时, 吸引好莱坞的注意可以把以前在娱乐业微不足道的迪拜的中东电影和娱乐之都的宏大理想变为现实(见1月7日《阿联酋借力美国实现宏愿》)。

迪拜和美国西部正好配对。由七个酋长国组成的阿联酋属于最西方化的阿拉伯国家, 而且迪拜和美国一样, 正在力图减少对石油的经济依赖。曾经让波斯湾富甲天下的石油在迪拜已经逐渐衰竭。在石油开采完以后, 已经成为中东主要航空中转站的该国希望以航空业为主业, 替代石油业的位置。

Pae明确指出在这些计划中美国将扮演重要角色。2007年12月, 阿联酋航空在休斯顿耗资200万美元为一位曾在德克萨斯居住的迪拜酋长举行聚会, 庆祝休斯顿和迪拜直接的不停靠直航开通。此次聚会将有700名贵宾参加, 在可容纳41,000名观众的棒球场的可伸缩穹顶下举行, 从各方面来说都是休斯顿近期来最为奢华的私人聚会。按Pae的说法, “自石油暴富时代之后的首桩。”

对美国来说, 美国赢得了一位非常生气勃勃的新朋友。根据Pae的报道, 阿联酋航空的短暂历史十分辉煌。1985年从两架租赁的飞机起家, 现在公司的机队由112架远程宽体喷气机组成。公司每两星期就斥资2亿美元到3亿美元购买一架新飞机, 而且还出资60亿美元订购了245架飞机。它是价值3.5亿美元、双层结构的世界最大客机空客A380的最大买家。阿联酋航空订购了58架空客A380, 几乎占订购总数的三分之一。

❖ 阿联酋航空希望某天能够设立跨太平洋航线, 这样就可以开通环球双向业务。现在坐拥150亿美元初始资金, Ahmed酋长创建了Dubai Aerospace Enterprise, 一家旨在设立和购并制造、维护和修理飞机部件的公司。这家新实体已经购并了两家洛杉矶的飞机维护公司, 并在12月宣布从波音和空客订购200架飞机用于租赁业务。这样这家公司就成为世界排名第三的飞机租赁公司。

❖ 供职于研究机构 Teal Group Corp 的航空分析专家Richard Aboulafia告诉《纽约时报》: “他们有全面的航空行业政策, 都是增长性领域, 即便客流下降, 他们也可以靠航空修理和租赁发展。”

其它航空新闻...

❖ 在最近一期《当前市场展望》中, 波音公司(芝加哥)预计中国在今后20年中航空旅行市场的规模将发展到与北美媲美, 同时需要投资3,400亿美元购买3,400架飞机。此预计高于之前其欧洲竞争对手, 同为大型飞机制造商的空客的预计。空客预计中国今后20年需要

1,900架到2,000架飞机。波音预计中国的机队规模到2026年将增长近四倍,达4,460架。波音报告还称同期中国的国内航空市场将增长近五倍,“从而略大于北美内部市场”。在预测期内,中国将拥有世界增长最为迅速的市场,使其成为美国之外的新商用飞机的最大市场。

- ❖ 波音公司称韩国廉价航空公司Jeju Air Co向波音订购了五架波音737-800飞机,目录价格3.7亿美元。在1月1日的一项声明中,波音表示波音737的订单总数已经达到4,400架,其中1,900架尚未交付,按目前的目录价格折合总值为1,400亿美元。

汽车新闻

丰田超越福特,在美销售量跃居第二

丰田2007年打破了福特保持了75年的美国市场销售量排名第二的记录,比福特多销售了48,226辆卡车和轿车。根据丰田1月3日公布的数据,丰田的美国销售额2007年上升了3%。同期福特销售量下降了12%,是1931年以来首次没有紧跟通用汽车占据美国市场销量第二的位置。对这种位置交换最有独特视角的可能是Jim Farley。他刚刚离开丰田公司到福特公司担任全球市场总监。用建设性的眼光看2007年的结果, Farley表示新数据不会影响福特的振兴计划。在接受美联社汽车专栏记者Dee-Ann Durbin采访时, Farley表示:“事实上,这加快了我们转换营运方式的步伐。它突出了我们的经营方式与竞争对手的经营方式的差别。它要求我们坚持计划,也要求我们切实地加快新产品推出的步伐。”

Farley指出福特在2007年也有一些崭露头角的车型,典型如Edge和Lincoln MKX混合车型。福特混合车型的增长率2007年为62%,远远高于业界平均的17%。

丰田对其2007年的卓越表现异常低调。在超越福特之后,它的下一个目标可能是超越通用成为世界第一。(通用曾估计其2007年的销售总量为930万辆,同期丰田的估计为936万辆。)丰田的低调并不是说丰田想压抑其勃勃雄心。丰田表示今年全球销售总量预计将达到985万辆,高于此前预计的980万辆。由于美国房市的持续低迷和次贷造成的危机,丰田2008年的业绩难有显著增长。但即便如此,公司仍然有值得宽慰的地方:公司有一帮热情的铁杆美国用户。美国的消费者今年可能不会再购买新车,但不是出于80年代日本车商初次登陆美国市场时遭遇的“爱国”情结,而是由于经济拮据。

塔塔汽车有望从福特购买美洲虎和陆虎豪华车生产线

福特汽车1月4日宣布位于印度孟买的塔塔汽车有权优先购买世界知名豪华车品牌美洲虎和陆虎。塔塔在战胜一家印度本地汽车厂商和一家美国私募投资公司后,杀入与福特谈判购买美洲虎和陆虎的最后阶段,但谈判没有设定明确的时间表。福特于1989年购并美洲虎,2000年购并陆虎,总共耗资52亿美元。这两起购并是对Aston Martin和Volvo的购并的补充。这四个牌子构成了福特的高档车组合。

2007年5月,福特将Aston Martin以9.21亿美元出售给了一个英国投资团体。虽然出售美洲虎和陆虎对福特来说肯定是个痛苦的抉择,行业分析人士认为福特对这三个顶级品牌的购并没有实现预期的目的。福特表示将继续持有Volvo,并继续投资以发展这个品牌。

《洛杉矶时报》特约撰稿人Ken Bensinger认为购并美洲虎和陆虎对塔塔汽车具有重要意义。塔塔汽车10年前才涉足汽车制造,以生产针对印度消费者的低价汽车著称。“这次购并将对塔塔汽车来说是向前迈进了一大步。塔塔对这两个汽车品牌的控制将使其立即成为豪华车市场的重要角色。这也为塔塔接触现代化技术和市场提供了途径。”

另外两个投标者分别是印度汽车制造公司Mahindra & Mahindra和为摩根大通投资的纽约私募投资公司One Equity Partners。福特没有透露这两个牌子的投标报价,但外界报道称在15亿美元到20亿美元之间。塔塔在购并美洲虎和陆虎的投标中推进到谈判阶段使Bensinger对这次跨国购并中的一些令人好奇的层面忍不住幽上一默:“塔塔最近因为推出低于3,000美元售价的经济型轿车而成为众人瞩目的焦点。世界上最便宜的铁皮盒轿车和超过75,000美元一辆的运动轿车美洲虎以及超过10万美元一辆的豪华运动轿车陆虎放在一起如何协调,我们拭目以待。”

现代和起亚2008年在美有望增长

现代1月4日称预期在其最大的海外市场美国的销售今年将增长10%。现代把2007年未能完成在美销售目标的原因归咎于美国消费者经济状况的不确定。现代预计2008年将在美国实现51.5万辆的销售目标。2007年的销售量为467,009万辆。部分由于美国次贷危机导致的消费者经济拮据,这家韩国最大的汽车制造商把2007年度美国的销售目标下调了8.1%,下调至51万辆。现代还宣布启动了此前公布的一项在南美兴建首家现代工厂的计划,并正在巴西选址。该厂的年产量为10万辆。现代子公司起亚在韩国汽车行业排名第二,也预计2008年在美国有个好收成,从2007年的305,473辆增长到37万辆。现代起亚集团总部设在首尔,为世界第六大汽车制造商。

次贷危机

美国个人破产数下降一年后反弹

2007年美国个人破产申请保护数上升了40%,达到801,000宗,主要原因包括按揭贷款还款额上升、失业和其他财务压力。2006年美国个人破产申请保护数为大约573,000宗。2006年全年是美国实行遏制个人申请法院破产保护的第一年。根据全国破产研究中心(National Bankruptcy Research Center)收集的数据,2006年的破产申请数是1998年以来最低的。

2005年国会生效了25年来美国破产法律最大的修正,要求对可能的借款人的偿债能力进行强制收入检验。该年美国的个人破产申请数陡升至200万宗,而此前10年的多数时候每年都在150万宗上下。为了逃避新法律2005年10月生效的资格审查条款,大约60万宗破产申请发生在当月。在经过一个波澜不惊的2006年后,个人破产申请数似有反弹迹象。根据位于左治亚州亚历山大的研究机构美国破产研究协会的报告,这个趋势在今年似乎有恶化的倾向。美国破产研究会执行理事长Samuel Gerdano表示:“2007年大约40%的个人破产申请增长预示着今年的破产申请数会更高,因为消费者业已面对沉重的债务负担,会因次贷危机而更加不堪重负。”伊利诺斯州民主党议员Richard Durbin表示大约有220万个家庭在未来几个月内会丧失房屋赎回权,有大约三分之一的物业主会发现物业价值下降。国会正在考虑一项扩大破产法官降低家庭贷款数额的权限的议案。根据Durbin议员提议的议案,法官可以通过把按揭贷款视为最高不超过财产市场价值的有抵押贷款来对按揭贷款进行调整。

麦克莱齐报业集团(McClatchy Newspapers)记者Rob Hotakainen从华盛顿报道说这个议题已经引起了国会的相当重视。在国会占据上风的民主党人要求恢复原来的破产法。但同时Hotakainen提到部分国会成员对任何政府对个人财产的干预保持警惕(见1月7日《破产数增加》)。布什总统在12月建议将贷款利率冻结五年,以延缓家庭丧失房屋赎回权。但是,看起来除非直到有人找到让人们自己拯救自己的办法,否则就在评论人士高声痛斥发放次级贷款的银行和按揭公司为“江湖骗子”、“肉食动物”、“下流痞”的时候,次贷危机仍然在缓慢地、如白蚁般地扩散。

短新闻

- ❖ 美元对印度卢比的贬值正在侵蚀占印度经济15%的出口。由于2007年印度卢比对美元升值12.3%,印度2008年出口将逐渐放慢。位于新德里的政策研究机构经济增长研究所的经济学家N R Bhanumurthy 1月2日表示:“从数量上看,由于企业仍然在执行旧订单,所以出口还保持上升势头。这个势头将在整年内逐渐放慢。”

- ❖ 摩根斯坦利伦敦货币研究所所长Stephen Jen 1月7日在接受彭博新闻社(Bloomberg News)采访时表示:“加拿大元由于加拿大对美贸易赤字严重,将在2008年上半年对美元贬值。随着美国经济放慢,出售加拿大元的可能性加大。”在Stephen发言之际,加拿大元刚好重挫11%,跌至一美元兑换1.0015加拿大元。此前加拿大元曾在2007年11月7日攀升到一美元兑换90.58加拿大分,为1950年来最高。根据彭博对43名分析师的调查,加拿大元今年将贬值到一美元兑换1.06加拿大元,是2001年以来的最大跌幅。

作为纽约FX Concepts Inc的首席执行官,John Taylor负责照看120亿美元资产。就在去年9月份,他还信心十足。现在他说:“加拿大现在在各方面兆头都不好,从制造、零售到旅游、出口。美国经济可能会陷入衰退,或者至少会放缓,这将对加拿大造成损害。”

专栏编辑: Dorothy Fabian



○ *New division is going from strength-to-strength*

New wire machinery division for Eurolls

Eurolls SpA, Italy, has further strengthened its position by forming the Eurolls Wire Machinery Division.

This division has rapidly acquired an important role as a single source for the supply of highly efficient/technologically advanced wire production and processing equipment such as advanced fully automatic lattice girder production lines for either standard or special electro-welded structures, new equipment and/or components for the production of high resistant/high yield reinforcements etc.

It is in the sector of high resistant/high yield reinforcement production that Eurolls Wire Machinery Division has developed its new high speed combined cold rolling/stretching lines – LGV2V – which are currently operating in various plants in Europe. The heart of this high performance line is an innovative dual capstan bull block designed to operate efficiently in conjunction with both the

traditional Eurolls cold rolling cassettes, for the production of cold rolled wire, as well as wire stretching panels, for production of high resistant/high yield reinforcements.

Two totally different reinforcement products satisfy the different and stringent quality/mechanical parameters as imposed by the latest European codes.

The new high speed combined cold rolling/stretching line LGV2V has also been designed with particular emphasis placed on the ease of rod threading eg presence of motorised feeding rolls, self-threading bull block capstans etc, so important when operating with large diameter entry material required for the production of the top end reinforcements, independent on whether cold rolled wire or stretched material.

To ensure a correct rod feed into such a line, a new continuous horizontal hot

rolled rod coil pay-off system has also been developed. This system is the perfect complement to the high speed cold rolling/stretching line, LGV2V, because it guarantees a continuous rod feed that is not affected by the dimension/diameter of the rod coil or the time required to properly weld the successive entry rod coils.

The concept of total flexibility/high efficiency has also been extended to the collection system which permits the formation of different formats of the cold rolled wire/stretched material. For this reason the line has been designed to efficiently produce – at high speed – both straightened and cut bars as well as precision laid strapped coils (layer to layer wire) with fully automatic spoolers with up to 5 ton capacity.

Eurolls SpA – Italy
Fax: +39 0432 796501 821
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Website: www.eder-eng.com

**Wire 2008
Stand 10A40-02**

New wire marker from Spectrum

Spectrum Technologies has launched the Nova™ 880 ultra high speed UV laser wire marker, which joins the existing range of Capris® UV laser wire marking products.

The Nova 880 is the highest speed wire marker developed to date by Spectrum, with performance substantially greater even than the benchmark Capris 100, which has been the mainstay of the aerospace industry for the past decade or more.

Nova 880 represents a quantum leap in performance in UV solid state laser wire markers. It uses a new high power UV laser and optical system based on Spectrum's proprietary Longbow™ UV solid state laser to achieve marking speeds up to double those of the current top of the range marker, the Capris 60-200.

Overall system throughput and productivity is increased by up to 90% compared to the C60-200, depending on job make up. Nova also heralds the introduction of a brand new overall system design with new wire handling and automation systems that introduce further substantial gains in performance and capabilities.

Nova is available as either a manual system or with fully automated wire handling for selecting and loading wires. The new auto select and load (ASL) system doubles the number of wires that can be handled automatically from the

previous 16 to 32 wires or cables. The wire loading times have also been slashed, offering even greater productivity.

Recent industry reports have stated that future production of aircraft faces the prospect of being constrained by manufacturing capacity. Nova has been developed in anticipation of this issue and in response to demand from industry for a very high speed marker for high volume aerospace wire harness manufacturing applications.

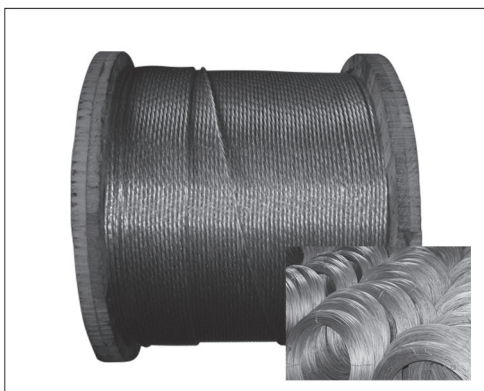
The Nova marker also excels in extreme applications – marking very long wire codes and long wires with continuous close pitched wire codes, such as required by military aircraft applications.

After consultation with key customers Spectrum's engineering and development team launched the Nova development in mid-2006 to meet the requirement for a system with increased capacity. A full prototype system has been under development with thorough Beta testing carried out on site at Spectrum. The system has been carefully designed to reduce risks associated with new technology, minimising the time to market.

Following a successful test phase Nova has now been released into production with the first batch of units currently in manufacture. Spectrum has also signed up the launch customer with the first unit due for delivery before the end of the year.

The system is in full compliance with the latest international standards for aerospace wire marking such as SAE AS5649. It also complies fully with other key standards such as AS50881 and major OEM standards.

Galvanized Steel Wire & Strands for ACSR ASTM and IEC Standard



Anbao (Qinhuangdao) Wire & Mesh Co., Ltd.

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email: anbao@anbao.net Website: www.anbao.com

Spectrum Technologies – UK
Fax: +44 1656 655920
Email: sales@spectrumtech.com
Website: www.spectrumtech.com

Nexans' range extended

Nexans has further extended its Buflex range of polyurethane sheathed reeling energy cables with the addition of Buflex X'Prem, designed to boost the performance and durability of cranes operating at high speeds of up to 150 metres/minute.

Buflex X'Prem's new design greatly improves the cable in terms of traction and durability, without needing to increase its size. The thinner and lightweight polyurethane sheath enables it to offer similar performance to standard rubber sheathed reeling cables, but within a smaller overall diameter and enhanced abrasion resistance. This enables crane operators and OEMs to utilise smaller motorised reels to achieve equal or superior productivity.

Buflex X'Prem is available in both a low-voltage, yellow version, for applications up to 1kV, such as in the general industrial crane market and a medium-voltage, red or black, version for applications from 6kV to 20kV in ports and terminals.

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



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Hall 11 - Stand D40

31 March - 4 April 2008
Düsseldorf, Germany

Special WIRE - Eurolls Group

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Managing Director Vice



Vittorio Mion
Sales Director Vice



Pasquale Bussola
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Special WIRE - Euroalls Group

908 sqm of advanced technologies



THE POWER OF REAL...

A 908 sqm two-storey stand for the best welcoming of guests and visitors.

The emotionally amazing impact of the showcase, introducing the latest innovations set on the ground, is reproduced also on the second floor: 10 comfortable meeting rooms with balcony give a striking overview of the products from the top.

... AND VIRTUAL WORLD

20 LCD displays provide a complete journey into and around Eurolls Group galaxy: facilities and plants, technologies and processes, lines and machines are reproduced by graphic design and 3D virtual tours.

JOINED IN A GREAT DESIGN WORK.

Projects and designs will be highlighted by laser shows projected on big screen. The hospitality area is characterized by two glass installations, showing an innovative and spectacular design (we would not tell you more, to keep suspense high!).



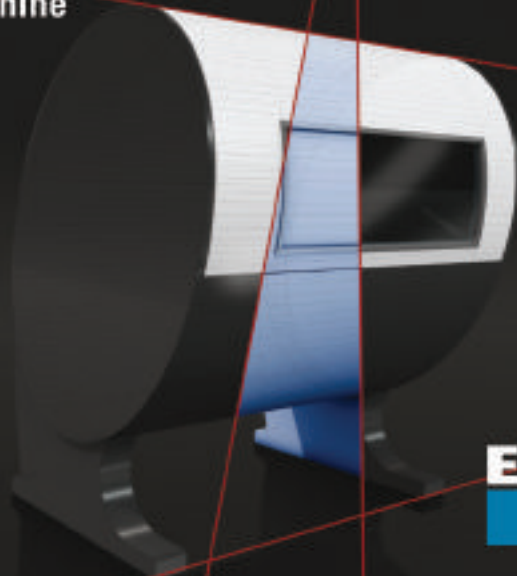
EUROLLS
GROUP

www.eurolls.com

Wire trade fair 2008: preview.

THE WIRE TRADE FAIR 2008 IS AN OPPORTUNITY THAT SHALL NOT BE MISSED BY THE ONES WHO INTEND TO CHECK THE HIGH QUALITY AND PERFORMANCE STANDARDS OF EUROLLS GROUP LATEST INNOVATIONS, WHICH ARE THE RESULT OF A REMARKABLE AND STEADY ACTIVITY OF ENGINEERING, RESEARCH AND DEVELOPMENT.

Steel fiber machine



EUROLLS



Bow Twister

Semi-automatic side trolley loading system for spools $\phi = 1250 - 2000$ mm



CORTINOVIS
MACHINERY



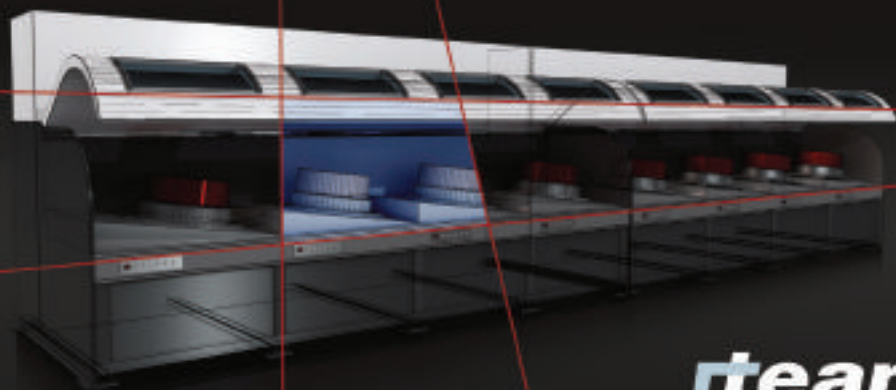
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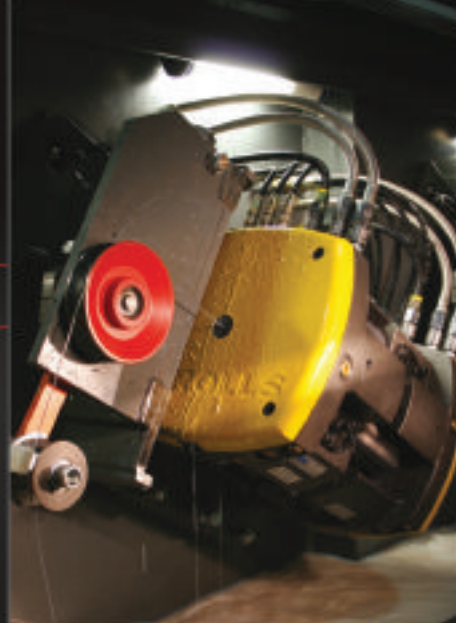
Special WIRE - Eurolls Group

New multipass rolling machine

New patented hi-tech solution

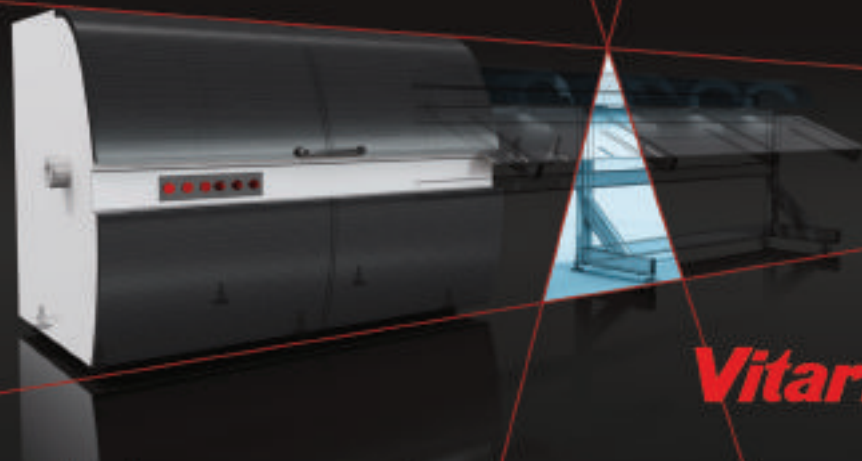


[team]
meccanica spa



Bar straightening and cutting line

100% electronic control system

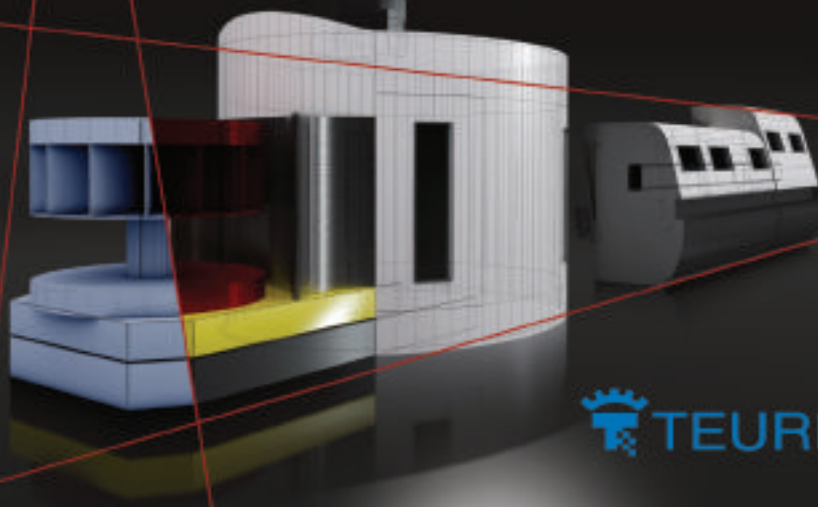


Vitari 



Stretching/rolling line

With layer-to-layer vertical automatic spooler



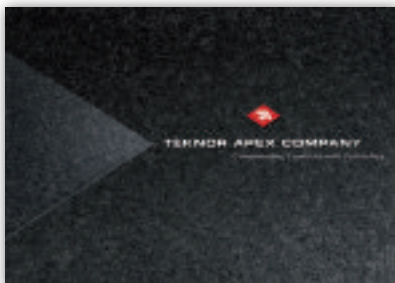
 **TEUREMA**



It's all there in glorious colour!

A new brochure from Teknor Apex explains how designers, processors, and OEMs benefit from this custom compounder's diverse thermoplastic technologies and its international supply capabilities.

The colourful 12-page publication reports that Teknor Apex draws on a database of 40,000 formulations and uses manufacturing capacity on three continents to supply compounds that already comply with key international standards.



○ New brochure from Teknor Apex

One special capability cited is that of providing identical compounds to globalised customers with multiple plant locations. Details on the following broad compounding groups are presented, including many product ranges in each group and the markets served:

- Vinyl; thermoplastic elastomers (TPEs); engineered thermoplastics (ETPs); colourants; speciality compounding.

The brochure is available via email or by visiting the website at www.teknorapex.com/about_us.html

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Zwick – covering all the extremes

LaserXtens – Zwick's latest strain measurement system – has successfully been used for applications in temperature chambers where materials are typically exposed to temperatures from -70 to +250°C whilst being subjected to tensile or compressive loads.

Such tests are very important for the automotive industry where the measurement of both axial and transverse strain is often required.

laserXtens measures bi-axial strain without any specimen contact and without the need to attach any marks to the specimen. Part of the specimen surface is illuminated using the principle of laser speckle interferometry.

As the specimen is subjected to load, the reflected speckle pattern is tracked by two digital cameras, and highly advanced real-time software algorithms convert this data directly into strain.



○ Extreme temperatures tested the new strain measurement system

The tests carried out in the temperature chamber revealed that this measurement technology was not adversely affected by the thin layer of frost which had formed on the specimen. The speckle pattern was easily detected and could be tracked during the tests.

Only a window is required in order for laserXtens to 'see' the specimen inside the temperature chamber so laserXtens offers significant benefits in terms of its ease of use. Meeting class 1 of ISO 9513 (class B2-ASTM E83), the extensometer remains outside the testing environment and measures strain up to failure. Zwick believes that this device will revolutionise the measurement of strain on specimens under environmental conditions.

Zwick GmbH & Co KG – Germany
Fax: +49 07305 10200
Email: info@zwickroell.eu **Website:** www.zwick.de

Super-size cables for Iraq

CMS (Cable Management Supplies) Ltd went that extra mile, literally, when it recently supplied the Ministry of Defence with fibre optic cables for use in Iraq.

Whereas CMS customers typically order fibre in lengths of 250m to 500m, the MoD required lengths of from two kilometres up to eight and ten kilometres. The fibre will be used to extend Army communications and reconstruct civilian networks in Iraq.

CMS is able to handle fibre orders of any size from small custom-made lengths and assemblies to large bulk requirements.

Most cables can be delivered the next working day, before 1pm, at no extra charge on orders of more than £100.



○ CMS went – literally – the extra mile!

CMS (Cable Management Supplies) Ltd – UK

Fax: +44 1252 379370

Email: sales@cableman.co.uk

Website: www.cableman.co.uk

New allround device for resistance measurement

Resistance measurement and Resistomat® are terms that belong together. Burster presents, with its brand new and value for money Resistomat® 2316, a tough, universal and compact resistance measurement device that suits applications in both rough industry surroundings and laboratory conditions.

More than 40 years of knowledge and experience in the field of resistance measurement went into the development of this measurement device that combines precision, as well as easy handling and system integration.

The instrument measures resistances in the range of 2,000 mΩ up to 200,00 kΩ with an accuracy of 0.03% rdg, while resolution in the smallest range reaches 0.1 μΩ. An especially developed measurement input protection allows the measurement of inductive samples such as electric motors and transformers, as well as coils with iron core. Autorange, temperature compensation of the test sample, cable fraction detection and thermo-voltage compensation are self-evident. For the integration to fully automatic test stations the instrument features a PLC and RS232/USB interface.

Burster GmbH – Germany

Fax: +49 7224 64588

Email: info@burster.de

Website: www.burster.de

www.alloywire.com

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Inconel 718*	Nickel 212*	Hastelloy G-30 *
Incoloy 800*	Nickel 270	Hastelloy 'X' *
Incoloy 800HT*	Nispan / C902*	Haynes 25 *
Incoloy 825*	NiLo 36*	Haynes 214 *
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INTERNATIONAL

New double head spooling line from PS Costruzioni

Drawing on its wide experience and customer-oriented philosophy, PS Costruzioni has designed and manufactured a fully automatic double head spooling line, PS 1000/22-B.

The company's engineers have created this line in order to satisfy a growing demand from cable companies in need of spooling big size flat and round cables.

The line can spool cables with a minimum diameter of 6mm/0.23" up to a maximum diameter of 22mm/0.86" and can be used with several spool sizes from 450mm/17.73" up to 1000mm/39.40". Maximum linear speed is 400m/1.312,32ft per minute, according to the type of cable.

Since both solid and delicate cables should be wound in spools, the best solution is to use two dancers (one for solid cables and one for delicate ones). In doing so, the pull on the cable can be perfectly checked.

The PS 1000/22-B has a modular structure, comprising some basic units and additional ones which can be added according to the customers' requirements.

PS Costruzioni Meccaniche Srl
– Italy

Fax: + 39 039 689 8769

Email: ps@pscostruzioni.com

Website: www.pescostruzioni.com

Vitari's new range

Vitari has a range of new automatic wire straightening and cutting-off machines for wires from $\varnothing 2.0$ to 10mm, with feeding speed electronically variable from 30 to 200m/minute. The main characteristics are:

The bar length measuring is made by an encoder; the wire cutting is by a brushless servomotor; the collecting bench of machine mod NR222 is modular, composed by elements of cutting a cutting bench of 3-6-9-12 metres and is equipped with a movable stopping device with display showing the bar length so the operator can move it to get an exact bar length.

Vitari SpA – Italy

Fax: +39 035 528 999

Email: vitari@vitari.com

Website: www.vitari.com



○ The new PS 1000/22-B from PS Costruzioni

Draka Comteq's new fibre coating technology

Draka Comteq has launched its latest innovation in fibre coating technology – ColorLockXS.

The optical fibre technology, cabling, connectivity solutions and network engineering services company's new product became available on Draka Comteq's flagship bend-insensitive fibre, BendBrightXS from January.

BendBrightXS, the first true bend-insensitive fibre introduced in 2006, has gained significant momentum in the marketplace as it meets the most stringent fibre bending standards while maintaining backwards compatibility with existing fibre infrastructure.

The newest enhancement, ColorLockXS, improves fibre micro-bending performance as well as strip-ability, while adding new vibrant colours integrated into the fibre coating.

Unlike other fibres, BendBrightXS is an all-glass fibre using proven and industry-accepted materials and technology, eliminating splicing concerns or special procedures for connectivity.

Micro-bending improvement with ColorLockXS coating on BendBrightXS means that the fibre is resistant to kink-losses, a key metric for fibre performance in tight bends required in FTTx applications.

Kink-loss can be described as partial bends (up to 45 degrees) of the optical fibre at radii as small as 2mm. Typical losses for BendBrightXS in such a situation are less than 0.1dB, even at a 2mm radius, which represents up to a hundred times improvement.

Draka Comteq – Netherlands

Email: info@drakacomteq.com

Fax: +31 40 2923 866

Website: www.drakacomteq.com

Quality all the way from Sikora

Quality combined with minimised failure and cost is demanded more and more in the market of measurement and control suppliers to the wire, cable and hose markets.

It is not surprising that special attention is paid on quality management systems of companies.

Sikora recognises the necessity of standardised operating processes and continuously works on an optimisation of its business process.

Just in time for its 20th anniversary, Sikora is also celebrating 20 years of ISO 9001 recognition.

Since 1993 the technology company has been certified according to DIN EN ISO 9001 and practices quality management to perfection. The company management is committed to the principles of the programme and the primary responsibility for daily oversight is the quality control manager, Ulrich Gwinner.

For 14 years he has controlled and managed the quality system – with notable success.

“With the improvement of our operational sequences we meet legal demands and simultaneously aim at a systematic increase of customer satisfaction,” he said.

“Moreover, with the ISO-certification our market position can be further strengthened and extended.”

Gwinner continuously analyses the business processes in the different departments of the company in cooperation with the company management and employees.

For the continuous improvement of quality, internal and external employee training is provided numerous times during the year.

The company's cooperation with machine manufacturers and customers worldwide is vitally important.

“The success of sustained quality management contains clear and transparent processes.

“That is to say a process oriented leadership, flat hierarchies and a good communication,” added Gwinner.

“Feedback and suggestions for improvement from the employees are decisive factors for a successful quality management system.”

Sikora AG – Germany
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STRECKER

Type KS 20
 型号 KS 20



Colwelders for solid wires:

- Copper:0.15 – 8 mm Ø
- Aluminium:0.15 – 13 mm Ø

冷焊机, 适用于实心线:

- 铜..... 直径0.15 – 8 mm
- 铝..... 直径0.15 – 13 mm

Type 1NV
 型号 1NV



Electric welders for solid wires:

- Steel:0.10 – 40 mm Ø
- Copper:0.10 – 30 mm Ø
- Aluminium:0.80 – 34 mm Ø

电焊机, 适用于实心线:

- 钢..... 直径0.10 – 40 mm
- 铜..... 直径0.10 – 30 mm
- 铝..... 直径0.80 – 34 mm

Type SE 300

型号 SE 300

For stranded conductors:

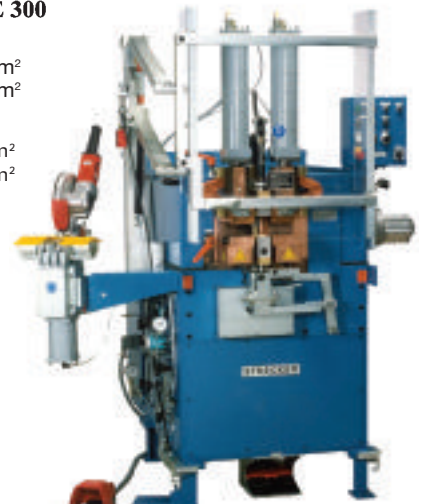
- Copper:0.08 – 1,200 mm²
- Aluminium:1.50 – 1,200 mm²

适用于绞合导线:

- 铜..... 0.08 – 1,200 mm²
- 铝..... 1.50 – 1,200 mm²



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Internet: www.strecker-limburg.de

Washing and pickling plants for 30 years

Serindgamma has been producing washing-salting and pickling plants for wires and bands since 1977 and is specialised in cleaning machines in line with mechanical as well as chemical operations.

Serindgamma machines are entirely manufactured in the factory situated in Magenta, Milan, Italy.

The company is a strong believer in flexibility.

The flexibility of the technical departments to study and manufacture customised solutions, using deeply tested technology in order to solve all the problems linked to wire and cable production.

This flexibility has seen the company's turnover increase every year, and for it to increase the number of customers worldwide.

These plants are normally equipped with ultrasounds of the latest generation, controlled by micro-processors that work with several

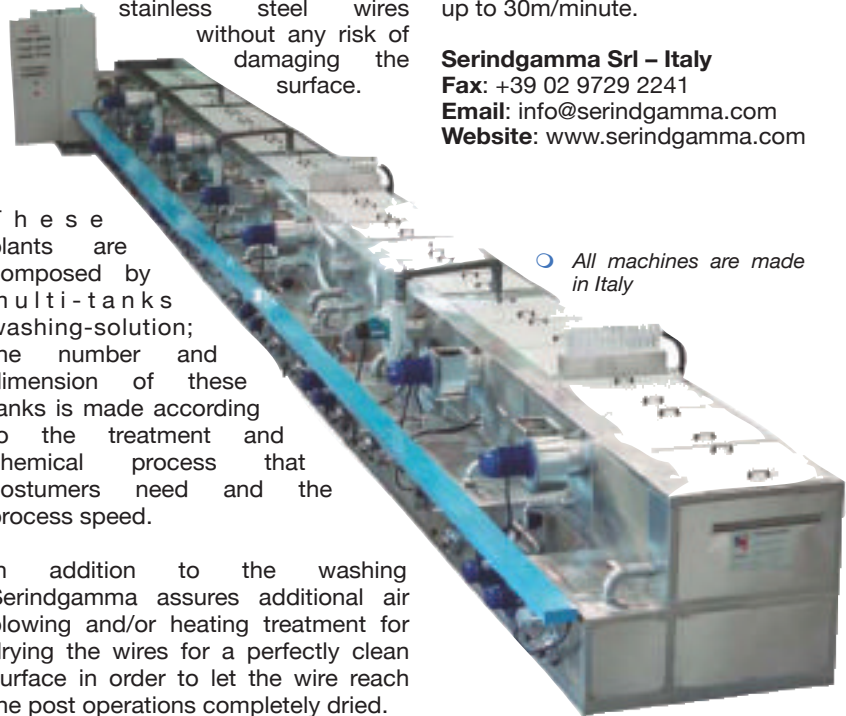
frequencies for cleaning at the same time both aluminium and stainless steel wires without any risk of damaging the surface.

These plants are composed by multi-tanks washing-solution; the number and dimension of these tanks is made according to the treatment and chemical process that costumers need and the process speed.

In addition to the washing Serindgamma assures additional air blowing and/or heating treatment for drying the wires for a perfectly clean surface in order to let the wire reach the post operations completely dried.

These machines are able to treat up to 26 wires in line with a production speed up to 30m/minute.

Serindgamma Srl – Italy
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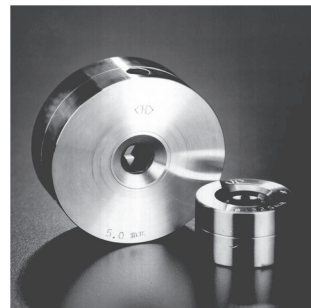
○ All machines are made in Italy

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- Others

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 - 长方形
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 - 镀锡模具
 - 押出钻石模
 - 电力电缆压缩模
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1,000 kN for testing mechanical deformation

At its October trade fair in Germany last year, Zwick introduced a new testing machine for evaluating the mechanical deformation of sheet metals.

The new hydraulic BUP 1000 machine addresses the latest requirements of the steel industry, especially for use in new automotive applications where higher tensile strength combined with high formability has become more and more important.

Forming behaviour has to be characterised, both for the modelling of newly developed products, and for quality assurance/production control.

The machine can be used to determine the forming limit curve (FLC) and, with drawing forces up to 1,000kN and a punch diameter of 100mm, meets the latest requirements of ISO 12004.

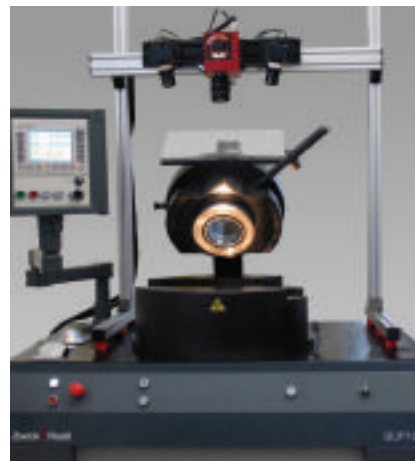
Building on Zwick's global lead in automated test equipment, the system

uses digital PLC technology enabling the test to be controlled from either the force or punch displacement measurement channel.

The advantage is that standard tests can be easily carried out, and in addition, the large punch displacement and wide speed range offers a range of useful applications including small scale simulations of the complete forming process.

Data acquisition is under the full control of Zwick's standard hardware platform test control electronics whilst data is processed and analysed, and organised through the testXpert® software.

With its remote control capability of the function display unit, and the hydraulic operation of the tool head aiding the insertion and removal of test specimens, the system offers significant and powerful benefits.



○ New sheet metal testing machine from Zwick for drawing forces up to 1,000 kN

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Producing machinery since 1925

Since 1925, Vitari SpA has been designing and manufacturing machinery for the wire industry at Valbrembo, near Bergamo, Italy.

Now part of the Eurolls Group, the company benefits from an extensive research and development programme.

Vitari manufactures a large range of machines, starting from the automatic wire straightening and cutting-off machines with relevant chamfering machines, machines for manufacturing nails, chains, chain link fencing, hexagonal wire mesh for gabions, barbed wire, dress-hangers etc and all ancillary machines.

A particular importance is kept for the barbed wire making machines that can produce all kinds of galvanised or plastic-coated mild steel wire (mod BVM) and reverse-twist barbed wire (mod BVR).

They are high productivity machines, sound-proofed and with all required safety devices. They are also equipped with a centralised automatic lubrication



○ Vitari makes machinery for making wire coat hangers

system. These machines are placed vertically for ease of access for set-up and maintenance.

The company also produces machinery for making wire coat hangers.

The wire is introduced into the machine by means of rotating bushes, or by means of a set of rollers in case of plastic-coated wire. Two pairs of rollers make the wire run into the dress-hanger moulding unit. The wire length is variable depending on the type of wire and coat-hanger to make.

The moulding operation consists of wire being cut to the preset length, bending, hook moulding and coat-hanger ejection. The produced coat hangers are collected on a special inclined bar. By changing the tooling the user can produce different shapes of wire coat-hangers.

Vitari SpA – Italy

Fax: +39 035 528 999

Email: vitari@vitari.com

Website: www.vitari.com

Alliance pays off

The strategic alliance between Faro Technologies Inc, a well-known company in portable computer-aided measurement arms and laser trackers, and Renishaw has produced the Faro Sensor, an advanced probe for measurement arms that increases under productivity and confidence in results.

“What makes the Faro Sensor probe unique is that data is taken only when in contact with the part, unlike other probes that keep collecting points even when the hard probe leaves the work piece,” Faro president and CEO Jay Freeland said.

Exclusively developed for the Quantum FaroArm, the Faro Sensor is a contact-sensing rigid probe that functions as three sensors in one to offer hard probe, touch trigger and scanning capability.

To operate, users simply guide the Sensor along the surface of the object to be measured. Points are measured as soon as the probe contacts the surface, eliminating the need to press capture buttons, as with other probes.

The Quantum’s laptop computer simultaneously illustrates the 3D measurements on-screen and records all of the data. It creates a 3D ‘blueprint’ of a part or machine component, making it an all-in-one portable tool for performing inspections, tool certification, CAD-to-Part analysis, and reverse engineering.

Drawing on Renishaw’s metrology expertise, the innovative sensing technology within the Faro Sensor is also easy to use and significantly reduces complexity of the measuring process by minimising operator influence; it is designed for durability to endure day-to-day use in tough industrial environments, and is equipped with a range of styli that allow it to accurately probe intricate and hard-to-reach features.

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Three-year programme for new C-frame metal spot welders

Sonobond Ultrasonics' new C-frame metal spot welders are now available for applications outside the auto industry.

The initial development of these welders was part of an advanced technology programme sponsored by Ford Motor Company, and partly funded by a grant from the National Institute of Standards and Technology.

This three-year programme cost an estimated \$8,910,000 and was designed to develop ultrasonic metal welding technology for use in the mass production of lower-weight, aluminium automobile bodies for better fuel economy.

In developing the C-frame ultrasonic metal welders, Sonobond has created units that permit more travel between the tip and anvil and have a deeper throat.

The welders can also be operated by a robotic arm. The arm positions the welder at the desired weld locations, while the automotive parts to be joined are held stationary in a fixture.

Sonobond then built a second, bigger C-frame to accommodate even larger automotive parts.

This second model, the WeldMaster™ C-Frame II, has two ultrasonic heads. One head powers the welding tip, while the other powers the anvil.

Ultrasonic vibration is introduced from both sides of the weldment. This reduces the weld energy and weld time required in making a weld to about half that needed for a single head.

It also dramatically reduces the tendency towards tip sticking of aluminium parts, as well as deformation of the part welded.

Each of the new spot welders is supplied with Sonobond's micro-processor-controlled 2,500 watt power supply. The units can be bench-mounted or adapted for robot operation.

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Strong research and development from Wangxun

Shanghai Wangxun Optic Fiber Co Ltd, China, specialises in high quality shielding layer tapes, coated steel tapes, coated aluminium tapes, coated copper tapes and coated stainless steel tapes for all kinds of communication cables, submarine cables, OPGW, power cables and programme cables.

With a strong research and development team, Wangxun has developed the equipment independently, and achieved many patents. The company was also involved in the drafting of the National Standards of telecommunication for metal strips.

Wangxun has an annual productivity of 37,000 tons of coated steel tapes and 12,000 tons of coated aluminium tapes, and has 40,000m² of factory space.

**Shanghai Wangxun
Optic Fiber Co Ltd – China**
Fax: +86 21 6490 5520
Email: wangxun1@shwangxun.com
Website: www.shwangxun.com

Complete systems

Mario Di Maio manufactures complete systems and machines for the metal wire process.

Square section wire rolling in continuous condition is provided through wire rolling trains that avoid unevenness and difficulty faced with the traditional multi-groove rolling mill systems, basing on a more sophisticated mechanical structure and an accurate electronic control of the working speeds.

Wire rolling trains can be supplied as 8 or 12-passage models, in three different series, in accordance to the dimension of the bar to be rolled, for a max dimension of 16mm.

For wire drawing, the square wire – once processed with the rolling mill – is then reduced to the desired diameter through the multi-pass wire drawing machines that can perform at a very high working speed. The company's MDM T12NFS multi-pass drawing machine combines a 300m/minute speed and the possibility to draw – without breakages – a 0.12 mm diameter wire, thanks to its accurate electronic control pulling system.

Mario Di Maio SpA – Italy
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Fibre lasers leading the way

Dr Tony Hoult, of the SPI Lasers applications laboratory, is challenging the perception of the capabilities of near infra-red lasers using state-of-art fibre lasers.

Areas such as plastic welding for the medical and mobile phone industries, scribing and cutting polymers for the automotive industry and ablation of thin films for the photovoltaic industry are showing excellent results when processed with a fibre laser.

SPI is expecting more results for the fibre laser in the near future.

One of the most recent examples of the more surprising results produced by the applications lab is plastic welding. The welding of plastics was not thought to be suitable for either the high brightness of fibre lasers or the beam characteristics.

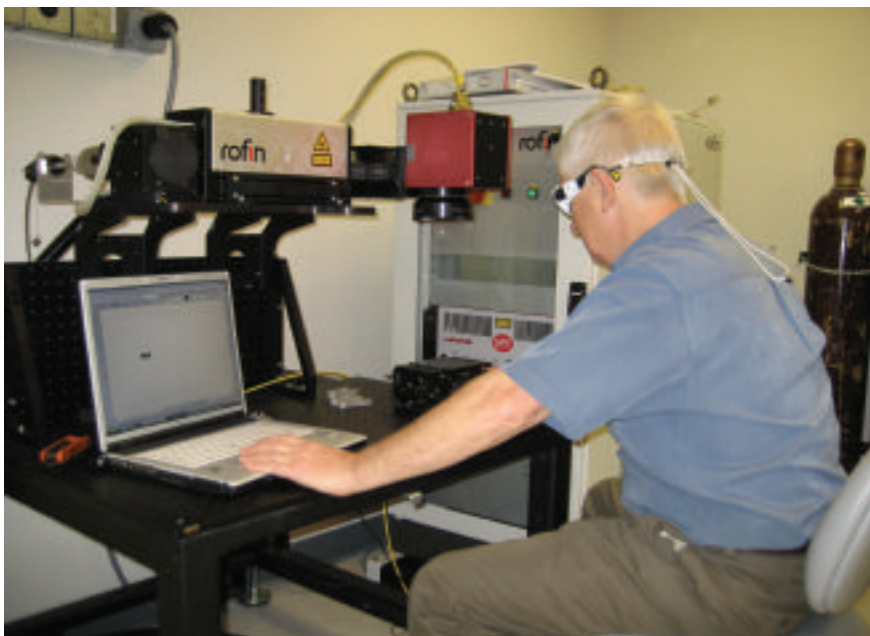
However, when tested by the applications lab, a careful manipulation of the laser beam has made it very easy to produce welds in polymers that are efficient, precise and time saving. These types of plastic welds are commonly produced for the medical and mobile phone industries.

Other examples include cutting polymers for the automotive industry, scribing and cutting alumina, and cutting and micro-machining of silicon. Also of real interest is the laser ablation of thin films for the photovoltaic industry.

In this case, using very high laser frequencies up to 500kHz for thin film removal produces very precise material removal. This means that the base material, be it glass, plastics or silicon, remains untouched when processed by one of the SPI lasers.

"This is the first time in the laser industry that such high repetition rates have been available from this type of laser – and it brings a totally new level of control and sophistication to a wide range of very precise surface removal and surface structuring processes, at a cost comparable to that of an industrial marking laser," said Dr Hoult. "As a result of this, more costly diode pumped solid state lasers, at up to five times the price, can in many cases be replaced by a fibre laser from SPI Lasers."

These results come on the back of an announcement from the applications



○ Dr Tony Hoult at the Rofin Station

laboratory in September that when cutting silicon using a 200W CW-M 1070nm fibre laser, cutting speeds of up to 6m/min on 200µm polycrystalline silicon were readily achieved. This was also a surprising new application for fibre lasers.

SPI Lasers are expecting the results produced by the applications lab to continue to expand the perceived capabilities of the fibre lasers, as the applications lab is open to requests for more proof of concepts.

Device and component manufacturers, academic institutions and system integrators from around the globe are actively encouraged to work with SPI on their own application specific trials. Each request is assessed on a case by case basis for proof of principle and, if approved, is provided at no cost.

SPI Lasers – UK
Fax: +44 1489 779698
Email: info@spilasers.com
Website: www.spilasers.com

'What if' becomes reality!

What if you only used diamond on the working surface of a die? What if it became possible to make a Tungsten Carbide die with a composite surface layer of extremely fine grain Polycrystalline Diamond (PCD) on the working profile?

The cost would be a bit more than the plain Tungsten Carbide die, but the wire or tube or cable would see a PCD die, with all the benefits of greatly improved surface finish and greatly improved wear resistance. The 'what if' is now real – thanks to Sanxin Wire Die.

The new dies are capable of drawing or compacting 10 to 15 times the tonnage of product, compared with dies others use. And the dies are readily available in diameters from 0.12"-2.36" (3mm-60mm).

Sanxin Wire dies are ideal for cable compacting, tube drawing, or for drawing welding rod, low carbon steel, alloy steel or the non-ferrous metals markets.

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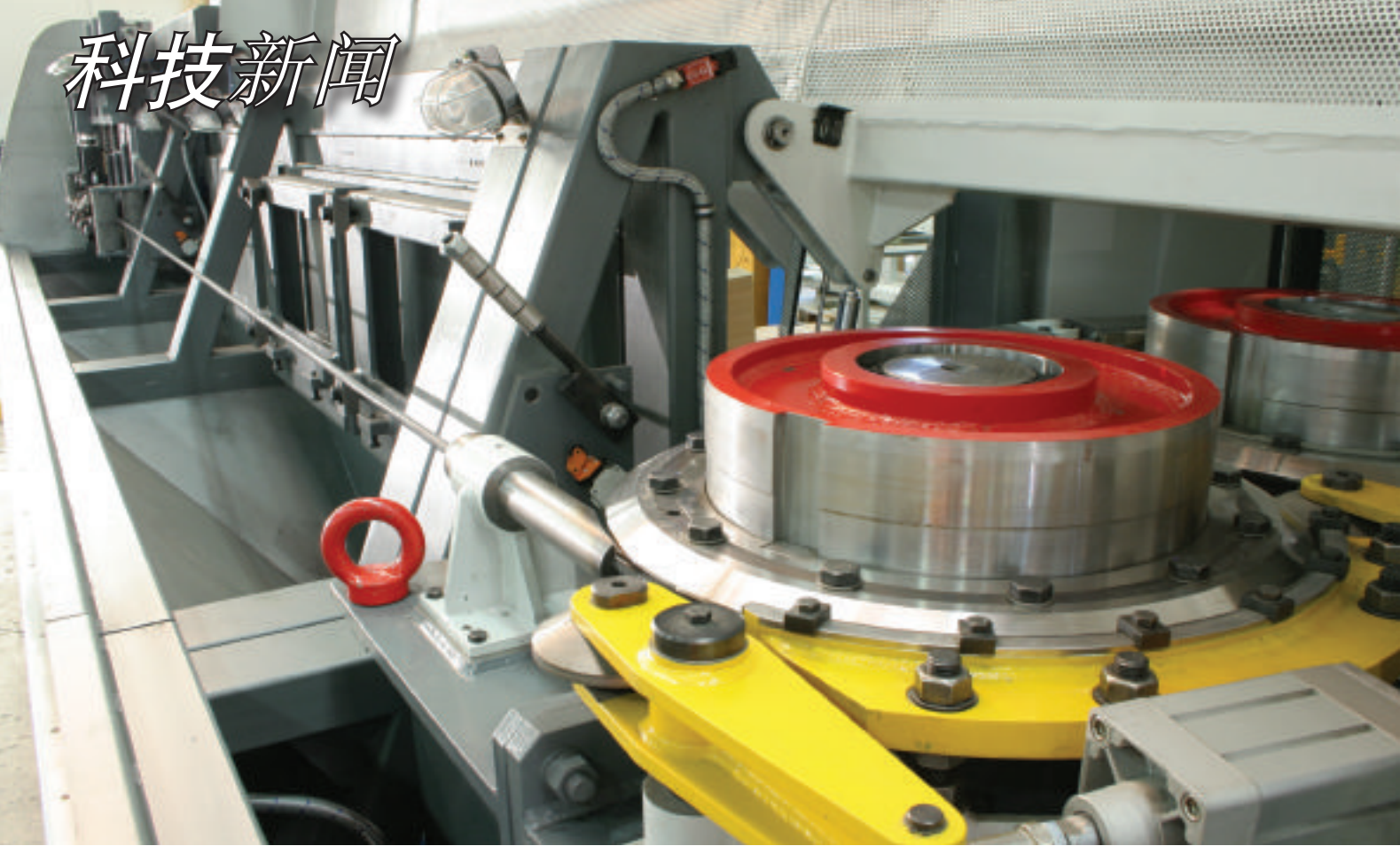
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Eurolls新建的线材设备公司

意大利Eurolls SpA在建立Eurolls Wire Machinery Division公司后，进一步加强其地位。

该公司迅速发挥了一个重要的作用，成为高效/技术先进的线材生产/加工设备的单点供应商，例如，先进的全自动格构梁生产设备，用来生产标准或特殊电焊结构，还有生产高阻抗/高屈服加强筋的新设备和/或组件等。

正是在高阻抗/高屈服加强筋生产部门，Eurolls Wire Machinery Division开发出新型高速冷轧/拉伸设备 - LGV2V - 目前，欧洲的各种工厂都在操作它。这种高性能设备的核心是创新的双绞盘拉丝机，其设计使其能有效地与传统的Eurolls冷轧盒相结合，生产冷轧线材，还使其能有效地与钢丝拉伸盘相结合，生产高阻抗/高屈服加强筋。

两种完全不同的加强筋产品满足了欧洲最新规范所要求的各种严格的质量/机械参数。

还设计了新型高速冷轧/拉伸设备LGV2V，以便容易地进行棒材开螺纹操作，例如，它拥有马达驱动的喂入辊、自我开螺纹的拉丝机绞盘等，这些在操作大直径输入材料时尤为重要，就可以生产出顶端加强，无论是冷轧线材还是拉伸材料，都没有关系。

为了保证将棒材正确地喂入该设备，还开发了新型水平热轧棒盘送料系统，这种送料与高速冷轧/拉伸设备LGV2V完全匹配，因为它能保证连续的棒材喂入，棒盘尺寸/直径或妥善焊接连续输入的棒盘所需的时间不会对其产生影响。

完全灵活/高效的概念是高速冷轧/拉伸设备LGV2V的基础，收集系统也采用了这种概念，允许形成不同格式的冷

轧线/拉伸材料。基于这个原因，设备的设计能有效地进行生产 - 在高速下 - 完成拉伸、棒材切割、精确定位的捆扎线盘（一层接一层的线材）以及能达到5吨重的全自动线轴。

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Draka Comteq的纤维涂层新技术

Draka Comteq推出其最新的纤维涂层技术创新 - ColorLockXS。从1月份开始，Draka Comteq推出其王牌产品弯曲-不敏感纤维BendBrightXS，它是公司的新产品，集光纤技术、电缆铺设、传导解决方案和网络工程服务于一身。

BendBrightXS是第一个真正意义上的弯曲-不敏感纤维，2006年推出后在市场上获得了重大的响应，因为它满足了最严格的纤维弯曲标准，又保持了现有纤维基础构造的向后兼容性。ColorLockXS是其最新的增强，它改进了纤维微弯曲性能和可成带性，又使纤维涂层增添了充满活力的新色彩。与其它纤维不同，BendBrightXS是一种全玻璃纤维，采用成熟的、工业认可的材料和技术，没有拼接问题或特别连接程序。

BendBrightXS采用ColorLockXS涂层后改进了微弯曲，这意味着纤维能抵御扭结损失，这是一个关键的衡量指标，说明了FTT应用所要求的纤维紧束弯曲性能。可以把扭结损失描述为光纤的部分弯曲（可达45度），弯曲半径只有2毫米。在这种情况下，即使弯曲半径为2毫米，BendBrightXS的损失通常低于0.1dB，这意味着一百多倍的改进。

Draka Comteq - 荷兰
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PS Costruzioni的新型双头卷轴设备

PS Costruzioni以其丰富的经验、客户为导向的理念,设计制造出全自动双头卷轴设备PS 1000/22-B。公司的工程师们创造这套设备是要满足电缆公司不断增长的对大尺寸扁平圆形卷轴的需求。设备能卷绕的电缆直径最小的为6毫米/0.23英寸,最大的为22毫米/0.86英寸,并能与若干个不同尺寸的卷轴一起使用,卷轴尺寸范围从450毫米/17.73英寸到1000毫米/39.40英寸,根据电缆类型,每分钟的最大线性速度为400米/1.312,32英尺。

考虑到线轴既要能卷绕坚固的电缆,又要能卷绕精巧的电缆,所以最好的办法是采用两个浮动辊(一个用于坚固的电缆,另一个用于精巧的电缆),在这样做的时候,要检查电缆的拉力是否适当。

与公司的所有包装设备一样,PS 1000/22-B拥有模块式结构,由一些基本的单元构成,可按照客户的要求,再加上一些附加构件。

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 网站: www.pscostruzioni.com



○ PS Costruzioni的新型PS 1000/22-B

Nexans扩展其产品范围

Nexans 推出 Buflex X'Prem, 进一步扩展其聚氨酯护套卷轴能源电缆的Buflex产品范围, 它设计用来增强吊车在高速运行时的性能和耐磨性, 即一般工业、港口、码头吊车的高速操作, 速度达到150米/分钟。

经过严格的实验室试验, 与其它传统卷轴电缆相比, Buflex X'Prem的寿命有实质性的增加。

Buflex X'Prem的新设计使其在不增加尺寸的情况下, 大大改进了电缆的牵引性和耐磨性。

更薄更轻的聚氨酯护套能使其具有标准的橡胶护套卷轴电缆类似的性能, 但整体直径更小, 具有更强的耐磨性, 能使吊车操作员和OEM使用更小的电动卷轴, 就能达到相同或更高的生产力。

Buflex X'Prem既有用于1千伏的低压和黄色型号, 例如一般工业吊车市场, 也有6千伏到20千伏的中压红色或黑色型号, 用于港口和码头。

另外, 电缆可以纳入绞对铜缆或光纤, 把先进控制解决方案与吊车电力电缆结合起来。

Nexans – 法国
 传真: +33 15669 8484
 电子邮箱: nexans.web@nexans.com
 网站: www.nexans.com

Spectrum新型线材标志器

Spectrum Technologies推出Nova™ 880超高速紫外线激光线材标志器, 加入现有Capris®紫外线激光线材标志器产品系列。迄今, Nova 880 是Spectrum开发的速度最快的线材标志器, 其性能甚至实质性地高于标准的Capris 100。在过去的10年或更多的时间内, Capris 100一直是航空工业的重要设备。

Nova 880代表着紫外线固态激光线材标志器性能的质的飞跃。它采用一种新型高能紫外线激光和光学系统, 基于Spectrum专有的Longbow™ 紫外线固态激光器, 标记速度比目前顶级的标记产品Capris 60-200快一倍。与C60-200相比, 根据工作组态, 整体系统输出和生产力的增加可高达90%。还令Nova感到欢喜的是, 在新的线材处理和自动化系统中引入全新的整体系统设计, 进一步实质性地提升了性能和产能。

在线材选择和装载方面, Nova既有手动的也有全自动的线材处理系统。新型自动的线材选择和装载(ASL)系统能使线材处理量翻倍, 即从以往处理16根线到自动处理32根线或电缆, 而且, 还大幅降低了线材装载时间, 形成更高的生产率。

由于过去几年积压了许多飞机订单, 所以最近的工业报告指出, 未来的飞机生产能力将遭受制造能力制约。Nova的发展预计到了这个问题, 为了响应工业的需要, 开发出速度非常快的标志器, 能大量应用于航空束线的制造。Nova标志器在极端应用环境中具有优秀的表现 - 标记很长的线材代码、标记很长的连续高紧密度的线材代码, 军用飞机就需要这样的代码。

在咨询了关键客户之后, 为了满足一个系统能力增长的要求, Spectrum的设计开发团队于2006年年中推出了Nova的开发。开发出整套的原型系统, 在Spectrum的现场进行Beta测试。系统经过精心设计, 降低与新技术相关的风险, 使投放市场的时间最小化。经过成功的试验阶段之后, Nova现已将其投入生产, 目前正在制造第一批单元。Spectrum还与首个客户签定协议, 在年底前递交第一个单元。

该系统完全符合有关航空线材标志的最新的国际标准, 例如SAE AS5649**, 也完全符合其它关键的标准, 例如AS50881, 以及主要OEM的标准。

Spectrum Technologies – 英国
 传真: +44 1656 655920

电子邮箱: sales@spectrumtech.com
 网站: www.spectrumtech.com

自1925年以来就开始生产机械设备

自1925年以来, Vitari SpA一直在意大利贝加莫附近的Valbrembo, 设计和制造线材工业的设备。

现在, 它作为Eurolls Group的一部分, 公司从一个广泛的研究和开发项目中获益。

Vitari 制造各种设备, 从自动的线材拉直、配备倒角装置的切割设备、制造钉子、链条、金属防护网、金属框用六角形丝网、带刺铁丝网、衣架的设备等等, 以及所有的辅助设备。

尤为重要是坚持生产铁刺网制造设备, 这些设备能生产所有种类的镀锌或塑料涂层软钢丝(mod BVM)和反绞合铁丝网(mod BVR)。

这些设备的生产率都很高, 配备隔音和所有的安全装置, 还配备中央自动润滑系统, 它们垂直放置, 对于设置和维护来说, 都容易到达。

公司还生产制作钢丝衣架的设备。由旋转衬套将钢丝喂入设备, 或者, 如果是塑料涂层钢丝, 则由一套辊轮组喂入。由两组辊轮将钢丝送入衣架成型单元。钢丝长度是可调的, 这取决于钢丝类型和要制作的衣架类型。

成型操作包括将钢丝切割到预定长度, 然后将其弯曲, 使钩子成型, 并将衣架弹出。将生产出来的衣架收集在一个特殊倾斜棒内。通过改变工具, 你可以生产各种形状的衣架。



○ Vitari制造生产钢丝涂层衣架的设备

Vitari SpA – 意大利
 传真: +39 035 528 999
 电子邮箱: vitari@vitari.com
 网站: www.vitari.com

Wangxun强劲的研发实力



○ 年产37,000涂层钢带

中国Shanghai Wangxun Optic Fiber Co Ltd专业生产高质量屏蔽层带、涂层钢带、涂层铝带、涂层铜带和涂层不锈钢带, 用于所有种类的通信电缆、海底电缆、OPGW、电力电缆和程序电缆。

Wangxun拥有实力强劲的研究和开发团队, 独立开发出设备, 并获得了许多专利。

公司还参加起草通信金属带的国家标准的起草。

Wangxun年产37,000吨涂层钢带、12,000吨涂层铝带, 工厂面积达40,000平方米。

Shanghai Wangxun Optic Fiber Co Ltd – 中国
 传真: +86 21 6490 5520
 电子邮箱: wangxun1@shwangxun.com
 网站: www.shwangxun.com

三年努力换来新型C型框架金属点焊机

现在, Sonobond Ultrasonics的新型C型框架金属点焊机可用于汽车工业之外的应用领域。

最初开发这些焊接设备是一个由Ford Motor Company资助的先进技术创新活动的一部分, 另有一部分资助源于国家标准和技术学院。

三年来, 创新活动的成本估计为891万美元, 设计用来开发超声波金属焊接技术, 以大量生产轻质铝制车体, 以节省燃料。

在开发C型框架超声波金属焊接设备的过程中, Sonobond创建了这些设备, 能使焊嘴和触点之间有更长的行程、更深的探距, 焊接设备还能由机械臂操作, 机械臂将焊接设备定位在期望的焊接位置, 同时待连接的车体部件由固定装置固定不动。

随后, Sonobond建立了第二个、更大的C型框架来容纳更大的车体部件, 这第二种框架模型WeldMaster™ C-Frame II有两个超声波头, 一个为焊嘴提供能源, 另一个为触点提供能源。

在焊成件两侧还引入了超声波振动, 以降低焊接能源和焊接时间, 使之仅为单头焊接时间的一半, 并大大降低了焊嘴与铝部件的粘连趋势、焊接部件变形。

每个新型点焊机均由Sonobond微机控制的2500瓦电源供电。可以台式安装这些设备, 也可以采用自动操作。

Sonobond Ultrasonics – 美国
 传真: +1 610 692 0674
 电子邮箱: info@sonobondultrasonics.com
 网站: www.sonobondultrasonics.com

30年清洗和酸洗设备的经验

自1977年以来，Serindgamma一直生产线材和带材的盐洗和酸洗设备，专业清洗满足机械和化工操作的设备。

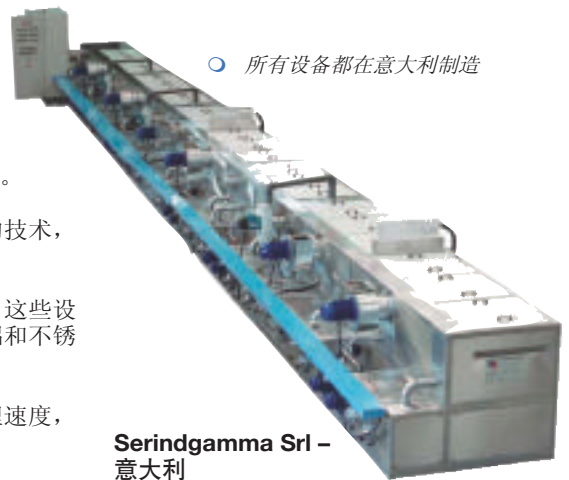
Serindgamma设备全部由意大利米兰Magenta工厂生产。公司很相信灵活性。

技术部门的灵活性在于：研究和制造定制的解决方案，采用经过深刻试验的技术，解决与线材和电缆生产相关的所有问题。

这种灵活性使公司每年的营业额递增，因为它增加公司在全球的客户数量。这些设备通常配备由微处理器控制的最新一代的超声波，用若干个频率同时清洗铝和不锈钢丝，而没有损坏其表面的风险。

这些设备由多个洗涤溶液槽组成，根据客户所需的处理、化学工艺以及处理速度，来决定槽的数量和尺寸。

除清洗外，Serindgamma保障用额外的空气吹扫和/或热处理来干燥线材，达到完美的清洁表面，使完全干燥的钢丝进入后处理操作。这些设备能处理26根线材，速度达30米/分钟。



○ 所有设备都在意大利制造

Serindgamma Srl – 意大利
 传真: +39 02 9729 2241
 电子邮箱: info@serindgamma.com
 网站: www.serindgamma.com

新型万能的电阻测量装置

电阻测量和Resistomat®是属于一体的术语，Burster推出其全新的、富有价值的Resistomat® 2316，这是一种强劲、通用和紧凑的电阻测量装置，适合于在严酷的工业环境和实验室条件下应用。

运用40多年来在电阻测量领域的知识和经验，才开发出这种精确、容易操作和系统一体化的测量装置。

这种设备测量电阻的范围为2,000欧姆到20万欧姆，精度达0.03% rdg，最小范围分辨率达0.1微欧。特别开发的测量输入保护允许测量感应样品，例如电动马达、变压器、含铁芯线圈。热量元件、保险丝、开关、继电器或电缆和线材的测量仅仅是其许多应用中的几种而已。

设备对测试样品的自动调节范围、温度补偿、电缆断裂探测和热电压补偿都是其很好的证明。至于整合到全自动的测试站，设备拥有PLC和RS232/USB界面。

由于采用大的背亮式LCD显示，所以能很容易地在远距离、昏暗的生产大厅、直射的阳光下读取测量值。

Burster GmbH – 德国 电子邮箱: info@burster.de
 传真: +49 7224 64588 网站: www.burster.de

色彩精美的介绍说明一切!

Teknor Apex推出一份新的产品介绍，解释设计方、加工方和OEM如何从其客户定制母料的多样化热塑技术获益、及其国际化供应能力。这份色彩漂亮、12页的资料报告说：Teknor Apex从拥有4万个配方的数据库中提取，并运用其在三个大陆的制造能力来供应业已满足关键的国际标准的母料。

所引用的一个特殊能力是：能从多个工厂为全球的客户相同的母料。还介绍了以下宽广的母料组的详细情况，包括了每个组中的许多产品范围和服务的市场：乙烯基；热塑弹性体 (TPE)；工程热塑 (ETP)；色料；专用母料。

若想获得此介绍，请发邮件或访问 www.teknorapex.com/about_us.html

Teknor Apex Company – 美国
 传真: +1 401 729 0166
 电子邮箱: info@teknorapex.com
 网站: www.teknorapex.com

Zwick – 能处理所有的极端情况

LaserXtens – Zwick最新的应变测量系统 – 已成功应用于温控室，而温控室内的材料处于张力或综合负载下，通常暴露于-70到+250°C的温度下。对于经常需要测量轴向和横向应变的汽车工业来说，这些试验非常重要。

LaserXtens测量双向向应变时不必接触样品，也不必在样品上作任何标记，它采用激光斑点干涉测量法原理照射样品的部分表面即可。由两架数字照相机跟踪接受反射斑点图案的样品，由高度先进的实时软件算法将此数据直接转换为应变。在温控室进行的试验表明，这种测量技术不受在样品上形成的薄霜的影响，能容易地探测斑点图案，并在试验期间予以跟踪。

LaserXtens只需一个窗口就可‘看’到温控室内的样品，所以在使用上，laserXtens 具有很大的优点，它既满足1级-ISO9513 (B2级-ASTM E83)，同时，变形测量仪则在试验环境之外，来测量应变，直到最终。Zwick相信这种设备将导致样品在环境条件下应变测量的革命。

Zwick GmbH & Co KG – 德国 电子邮箱: info@zwickroell.eu
 传真: +49 07305 10200 网站: www.zwick.de



○ 极端温度考验新型应变测量系统

纤维激光示范

SPI Lasers应用实验室的Tony Hoult博士运用先进的纤维激光，挑战对近红外激光能力的设想。

在诸如医疗和移动电话工业的塑料焊接、汽车工业的刻绘和切割聚合物、光电工业的薄膜消融之类的领域，纤维激光加工技术都显示出优异的结果。

SPI期望着在不久的将来获得更多的纤维激光技术成果。在应用实验室的这些令人感到惊讶的成果中，塑性焊接是其中的一例。人们曾经认为：塑性焊接不适于高亮度的纤维激光，也不适于光束特征。

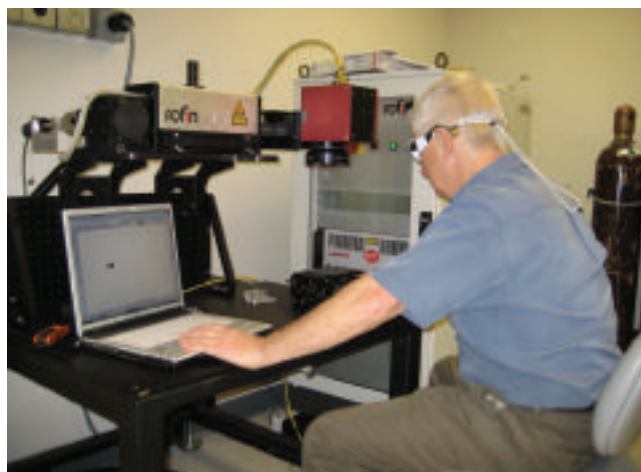
但在应用实验室试验时，通过精心调整激光束，能使其很容易地执行聚合物焊接，而且非常有效、精确、节省时间。此类塑性焊接通常应用于医疗和移动手机工业。

其它示例包括：切割汽车工业用聚合物、刻绘和切割氧化铝，切割和微加工硅。光电工业的薄膜激光消融也真让人感兴趣。在这种情况下，用高达500kHz的高激光频率进行薄膜消融，能非常精确地消除材料。这意味着，用SPI的一种激光进行加工时，它不会触及玻璃、塑料或硅这样的底基材料。

“这在激光工业中是第一次，能有这样高的重复率获得这种激光 - 而且它带来了全新层面的控制和复杂性，用于各种高精度表面消融和表面结构处理，它在成本上能与工业标志激光相媲美，”Hoult博士说。

“由于它的出现，在许多情况下，价格可高达5倍、昂贵得多的二极管驱动固态激光将被SPI Lasers的纤维激光所替代。”

在应用实验室在9月份发布一则通告后，即在采用一种200W CW-M 1070nm纤维激光来切割硅时，对200μm多晶硅的切割速度能容易地达到6米/分，这些成果接踵而来。这也是纤维激光的一个令人惊讶的新应用。SPI Lasers期望应用实验室继续扩展对纤维激光设想的能力成果，因为应用实验室欢迎希望对设想予以更多证明的请求。



○ Tony Hoult博士在Rofin Station

欢迎全球的装备和组件制造商、科学研究院和系统一体化研究方都积极地与SPI合作，对其自己的特别应用进行尝试。

每种请求将根据其具体情况予以评价，验证其原理，如果得到批准，那么对申请者不收取任何成本。

SPI Lasers - 英国
 传真: +44 1489 779698
 电子邮箱: info@spilasers.com
 网站: www.spilasers.com

整套系统

Mario Di Maio生产整套金属丝加工系统和设备。通过线材轧制设备，能连续轧制方形线，它采用更高级的机械结构、精确的工作速度电子控制，避免了传统多槽轧制设备的不均匀和困难。

可根据棒材选择，提供8通道或12通道、三种不同系列的线材轧制设备型号，最大尺寸可达16毫米。

对于线材拉伸，方形线 - 一旦进入轧制设备后 - 可以很高的速度通过多通道线材拉伸设备，降到期望的尺寸。公司的MDM T12NFS多通道拉伸设备的速度可达300米/分钟，还可以拉伸 - 没有断线 - 0.12毫米直径的线材，这归功于它那精确的电子控制拉伸系统。把圆形线材降为矩形扁钢带 - 在工业中有不同的用途 - 需要高精度的压扁轧制设备。

MDM LSF105X70型 - 配备盘卷设备 - 是一个结构紧凑、很有趣的设备。由电子调节双盘卷，配备自动拉伸控制 - 速度和卷绕节距，它配备一台最大速度为200米/分钟的轧制机，而且，轧辊上的卷绕环和轧辊冷却系统还能使你获得非常薄的厚度(0.05毫米)，绝对精确。

Mario Di Maio SpA - 意大利
 传真: +39 02 9689700
 电子邮箱: info@mariodimaio.it
 网站: www.mariodimaio.it

联盟结出硕果

Faro Technologies Inc是一家著名的生产便携式计算机辅助测量臂和激光跟踪器的公司，它与Renishaw的战略联盟产生了Faro传感器 - 一种先进的测量臂探头，能增强低下的生产力和对结果的信心。

“Faro传感器探头独一无二之处在于：它仅在接触部件时获取数据，这与其它探头不同，其它探头始终保持在收集点上，即使在硬探头离开工件时也是如此，”Faro总裁兼执行长官Jay Freeland说。

“这会造成返工和错误，你以后还必须消除这些错误。Faro传感器没有这种无谓的浪费 - 包括猜测要删除哪些点。用户将毫无疑问地知道他们的测量比以往任何时候多精确。”

Faro传感器专业开发用于Quantum FaroArm，它是一种接触传感的刚性探头，集传感器的三个作用于一身：硬探测、接触启动和扫描能力。在操作时，用户只要引导传感器沿着待测物体表面移动即可。探头一接触表面，该点就被测量，不必像其它探头那样要摁下获取按钮才行。

在Quantum的手提电脑屏幕上，同时呈现出3D测量结果，并记录所有数据。它创造了一个部件或设备组件的一个3D‘蓝图’，使之成为一个集所有于一身的工具：检验、工具认证、CAD-部件分析和反向设计。

结合Renishaw的度量衡专业技术，Faro传感器创新的传感技术还有：

- 容易使用，通过尽量降低操作员施加的影响，大大降低了测量过程的复杂性
- 其设计用于耐用性，保证在严酷的工业环境中日复一日的使用
- 配备各种探针，使其能精确地探测复杂、难以达到的地方。

Faro Technologies Inc - 英国
 传真: +44 24 7623 6150
 电子邮箱: ukingdom@faro-europe.com
 网站: www.faro.com/uk

Renishaw Plc - 英国
 传真: +44 1453 524901
 电子邮箱: uk@renishaw.com
 网站: www.renishaw.com

1000千牛试验机机械变形

Zwick在其今年10月德国贸易会上推出了一种新型的评价金属板材机械变形的试验设备。新型的液压设备BUP 1000解决了钢铁工业的最新要求，尤其是新型汽车应用，更高的抗张强度、更高的可成型性已经越来越重要了。

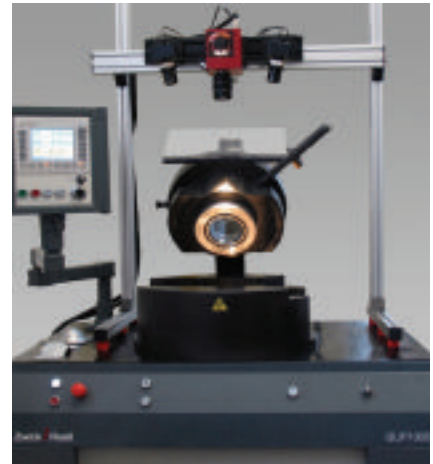
成型行为必须特征化，对新开发产品的建模以及对质量保证/生产控制来说，均是如此。该设备用1000千牛拉伸力和100毫米的冲击直径，来确定成型限制曲线(FLC)，满足ISO 12004的最新要求。

系统基于Zwick全球领先的自动化试验设备，采用数字化PLC技术，无论是力还是冲击移位测量通道，都能使试验得到控制。系统的优越性在于：能容易地执行标准试验，另外，大型的冲击位移和宽广的速度范围提供了各种有用的应用，包括对完整成型工艺的小规模模拟。

获得数据是在Zwick的testControl电子标准硬件平台控制下进行的，并通过testXpert?软件对数据进行处理、分析和组织。系统运用其功能显示单元的远程控制能力，并运用其工具头的液压操作来帮助插入和移去试样，提供了极为重要、强大的优点。

Zwick GmbH & Co KG – 德国
传真: +49 07305 10200

电子邮箱: info@zwickroell.eu
网站: www.zwick.de



○ Zwick新型金属板材试验设备，拉伸力可达1000千牛

Vitari新的产品范围

Vitari拥有各种新型自动化线材拉直和切割设备，适合于2.0到10毫米的线材，其电子控制的进线速度为30到200米/分钟。

主要特性为：

- 由解码器测量棒长。
- 由无刷伺服电动机切割线材。
- mod NR222 设备拥有模块化收集台，由3-6-9-12米切割台切割元件组成，配备可移动的停止装置，带有棒长显示器，操作工能手工移动，以获得更确切的棒长。

Vitari SpA – 意大利
传真: +39 035 528 999

电子邮箱: vitari@vitari.com
网站: www.vitari.com

DSM的新型聚合物

Royal DSM开发出一种新型聚合物，它是高性能工程热塑系列的延伸。该聚合物被称为PA4T，由高性能聚酰胺Stanyl® 46的发明者DSM Engineering Plastics开发。

新型聚合物将满足电子设备小型化和收敛化的市场趋势，例如手机和计算机。

它将帮助汽车制造商继续减轻份量，获得更高的燃料效率和更低的成本。PA4T展示出令人兴奋、独特的性能平衡，包括优秀的尺寸稳定性、对无铅焊接的兼容性、高温下的高硬度和机械强度、高熔点、以及就流动和加工而言的优秀的可加工性。

DSM已对新型聚合物、开发的化合物申请了专利，并与市场领军者一起对最终应用开始了最初的研究性试验。至今的结果是很好的，DSM目前正在荷兰Sittard-Geleen的Chemelot现场，施工一套市场开发装置，它将提供一些用于预营销的聚合物，开发市场的工厂将在2008年第一季度投入运行。

DSM – 荷兰
传真: +31 45 574 0680

电子邮箱: info@dsm.com
网站: www.dsm.com

Sikora自始至终的质量管理

对线材、电缆和软管市场的测量和控制供应商来讲，对质量加最小故障率和成本提出了越来越高的要求。

这就是为什么人们特别关注公司的质量管理体系。Sikora认识到标准化操作流程的必要性，并持续优化其业务流程。

就在其20周年纪念日，Sikora还在庆祝其20年的ISO 9001业绩。

自1993年以来，这家技术公司取得了DIN EN ISO 9001认证，就一直完善其质量管理，公司管理层对质量运动原则做出承诺，并由质量控制经理Ulrich Gwinner主要负责对日常工作的监督。

14年来，他控制和管理着质量系统 - 取得了很大的成功。

“随着对我们操作程序的改进，我们既满足法律法规的要求，又要系统化地增加客户满意度。”他说。

“而且，有了ISO-证书，还进一步加强和扩展了我们的市场定位。”

Gwinner与公司管理层和员工们一起持续分析公司各部门的业务流程。

为了持续的质量改进，这一年已经进行许多次内部和外部员工培训。

公司与全球的设备制造商和客户的合作是至关重要的。

“可持续质量管理取得成功的配方包括清晰透明的流程，也就是说，要有一个以流程为取向的领导，平坦的层次关系和良好的沟通，”Gwinner补充说。

“对于一个成功的管理系统来说，员工的改进反馈意见和建议是决定性的因素。”

Sikora AG – 德国
传真: +49 421 48900-90

电子邮箱: sales@sikora.net
网站: www.sikora.com

用于伊拉克的超尺寸电缆

CMS (电缆管理供应) Ltd最近向国防部供应的用于伊拉克的光缆真可谓超长的。

通常, CMS的客户订购的光纤长度为250米到500米, 而国防部要求的长度是2公里到8和10公里。

光纤将用于延伸军队在伊拉克的通讯和重建民用网络。

CMS能处理任何尺寸的光纤订单, 小到客户定制的长度和组件, 大到大批量的要求。

大多数电缆能在第二个工作日的下午1点前交货, 对于大于100英镑的订单, 不收取额外费用。

CMS (Cable Management Supplies) Ltd – 英国

传真: +44 1252 379370

电子邮箱: sales@cableman.co.uk

网站: www.cableman.co.uk



○ CMS的光缆真可谓超长!

高速在线的棒材和线材干法清洗

Decalub开发出一种称为Smooth-Brush (SB)的钢棒和线材干燥清洁系统, 它能与线材拉伸设备一起在线操作。



○ 经过SB刷洗系统清洁的棒材/线材

SB系统通过对线材周边进行横向高速细刷, 给出格外清洁的产品, 它具有自动控制的洗刷压力, 保证不会改变棒材/线材的物理特性, 没有残余感应应力。

有了棒材和线材SB清洁系统后, 消除了线材拉伸工艺中最昂贵的参数, 包括消除了酸洗和湿法化学品预涂层, 为下游操作提供了重大的优越性和实质性的工艺节约。

它适合于表面光洁度极为重要的应用, 系统提供一致性, 保证需求应用受益, 包括电镀线材、CO2焊接线材和H/C线材, 在这些应用中, 其延展性是关键, 尤其是生产钢丝弹簧、珠弹簧、计算机带线等。

刷毛渗透是可自动调节的, 维持10-25微米的表面微粗糙度, 可以预先设置。

在棒材应用中, 系统提供横向微粗糙度, 这对拉伸期间的润滑剂吸附是很理想的, 保证均匀的塑性变形, 并在模具中以所有实际的速度产生均匀的金属流动, 它使拉伸工艺不必采用湿法预涂层化学品。

在线材清洁应用中, 运用系统的平滑刷磨来清洁拉伸线材上残余的润滑剂, 能使线材实现在线抛光、金属和塑性涂层、油漆等。

Decalub – 法国

传真: +33 1 60 20 20 21

电子邮箱: info@decalub.com

网站: www.decalub.com

‘如果怎样, 会怎样’变成了现实!

如果你在模具工作表面仅使用钻石, 会怎样?

如果有可能使碳化钨模具的工作表面拥有一层由极细多晶体钻石(PCD)构成的复合表面层, 会怎样?

成本会比普通的碳化钨模具贵一点, 但线材或管子或电缆能看到这样一个PCD模具, 其所有的优点在于: 大大改进了表面光洁度和大大改进了抗磨损性。

现在, ‘如果怎样, 会怎样’是变成了现实 - 归功于Sanxin Wire Die。

与现在使用的模具相比, 新模具的拉伸或压制能力是你原来的10到15倍, 而且, 模具直径也已具备: 0.12"-2.36" (3毫米-60毫米)。

现在, 你能轻易地感到使用钻石模具是合算的, 它具有更长的寿命、更好的光洁度, 而且其直径是你以前想都不会想到的。

Sanxin Wire模具是电缆压制、管道拉伸或拉伸焊接棒材、低碳钢、合金钢或有色金属市场的理想模具。

Sanxin Wire Die Co – 美国

传真: +1 434 973 6622

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BM 800
Double-twist bunching machine



AUTOMAG
Precision layer rewinding line




MT 500
Aluminium wire rod break-down machine



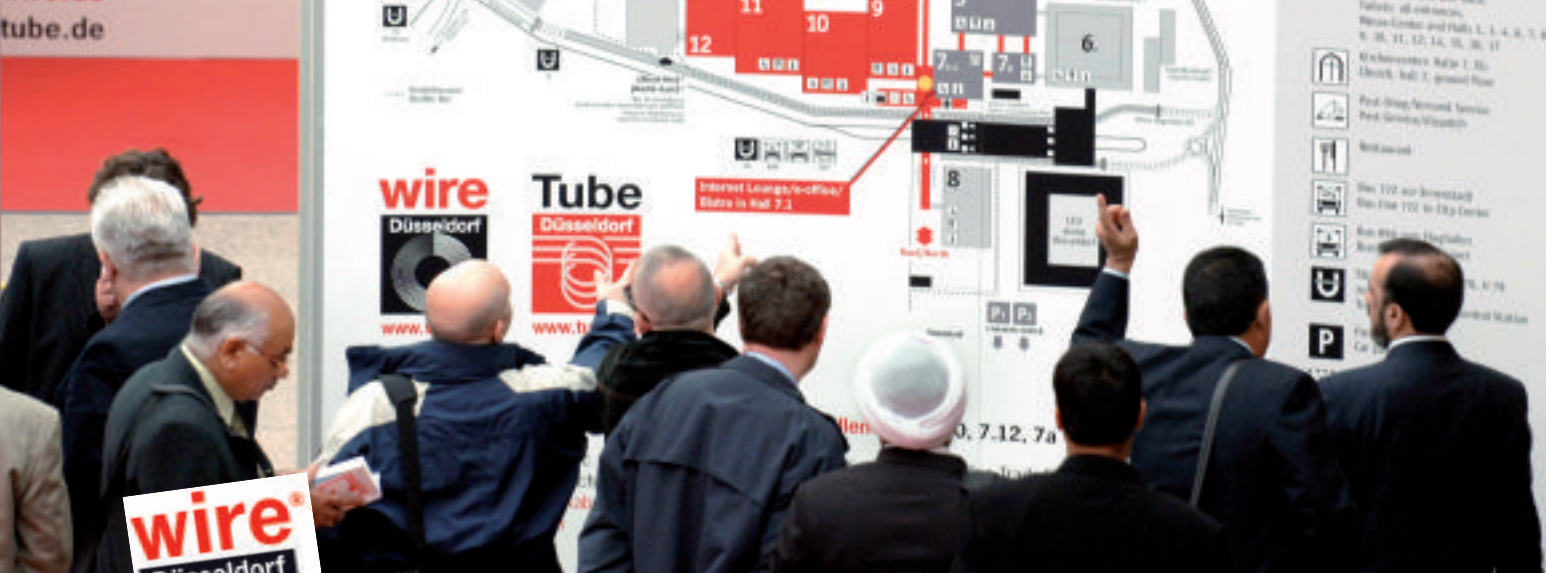
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www.sampsistemi.com

wire 2008 . . .

A nighttime photograph of a cable-stayed bridge. The bridge's tower is illuminated with a series of warm, glowing lights. The bridge's cables are visible against the dark sky. In the background, a city skyline is visible with various buildings lit up. The lights from the bridge and the city are reflected in the water in the foreground.

wire 2008 Düsseldorf – the world’s
premier wire and cable exhibition –
gets underway on 31st March.

We list all the exhibitors and stand
numbers for you . . .



Alphabetical List of Exhibitors

(Exhibitors list correct at time of going to press – January 2008)

Company.....	Country	Stand
3View Com Inc.....	Korea	14D54
A 1 Fence Products Company	India	13D75A
A Appiani SRL.....	Italy	11G32
Aachener Maschinenbau GmbH.....	Germany	14E43
Acciai Speciali Zorzetto Srl.....	Italy	12C17
Acciaierie Valbruna SpA.....	Italy	09B05
Acerinox (Inoxfil SA).....	Spain	12C53
ACIMAF Italian Wire Machinery Manufacturers Association.....	Italy	11F21
ACM A/B.....	Sweden	09E38
ADC SARRL Fabricant de Filières.....	France	09C02
Advaris Informationssysteme GmbH.....	Germany	10B22
AEI Compounds Ltd.....	UK	11F02
Aeroel Srl.....	Italy	09B55
AESA SA.....	Switzerland	10B38
Agibi Progetti srl unipersonale.....	Italy	14A58
Agir Technologies (Mouton-Rivom).....	France	10G56
AGST Draht- & Biegetechnik GmbH.....	Germany	12C61
Aichelin GmbH.....	Austria	13A11
AIM Inc.....	USA	11A25
Ajex & Turner Wire Dies Co.....	India	11G02
Alcan Aviatube.....	France	10E68
Alecosa Aleados del Cobre SA.....	Spain	09A13
Jacques Allemann SA.....	Switzerland	12E53
Alloy Wire International Ltd.....	UK	11E28
Almetha GmbH.....	Germany	11J76
ALMT Corp.....	Japan	14A31
Alpaplastic snc.....	Italy	11G57
Alsafil filiale de Nexans.....	France	09C41
Altec Srl.....	Italy	11H25
Altrimex Packaging Equipment BV.....	Netherlands	14E21
Aluminium Pechiney Alcan Group.....	France	13B75
Ameno Corporation.....	Taiwan	14F18-02
Amic.....	France	10H22
Ampere GmbH.....	Germany	09A44
Anand Arc Electrodes Pvt Ltd.....	India	13A86
Anbao (Qinhuangdao) Wire & Mesh Co Ltd.....	China	13D29
Anceschi Srl.....	Italy	14D11
Anderson Machinery Handelsges GmbH.....	Germany	11E78
Angeli di Casadio Nerio & C Snc.....	Italy	11H32
Anu Extrusions Pvt Ltd.....	India	14C39
Apaydin Metal Ürünleri Sanayi ve Ticaret AS.....	Turkey	13D94
Ara Makina Imalat Sanayi ve Ticaret Limited Sirketi.....	Turkey	13C74
Arcelor Mittal Long Carbon Europe.....	Luxembourg	12B17
Area Sistemi Srl.....	Italy	13D52
Arma Plus S A.....	France	13F87
Asahi Sunac Corporation.....	Japan	13D14
ASA-RT Srl.....	Italy	09F74
Asea Wire & Cable Machineries Spare Parts Pvt Ltd.....	Turkey	10C03
Asel Machine Production.....	Croatia	14A62
AstroPlast Kunststofftechnik GmbH & Co KG.....	Germany	11A78
AT Wire Profile & Draht.....	Germany	09F44
ATE Applicazioni Termo Elettroniche Srl.....	Italy	11C77
ATR SpA.....	Italy	13B66
ATS Sp z oo.....	Poland	13A94
Aumann GmbH.....	Germany	10F43
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AW Machinery LLC.....	USA	09F15-03
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Cecco Bartell Machinery Systems LLC.....	USA	11J16
Batoyle Freedom Group.....	UK	11D12
J Adolf Bäuerle GmbH & Co KG.....	Germany	12D70
Carl Bechem GmbH.....	Germany	09F42
Becker & Bläser Draht GmbH.....	Germany	12A71
Bedeae Berkenhoff & Drebes GmbH.....	Germany	12A67
Begra Granulate GmbH & Co.....	Germany	12A57
Beijing Holland Trading Co Ltd.....	China	13F39-03
Bekaert NV/SA.....	Belgium	10E62
Bema Ing Josef Bein Maschinenbau und Fertigungs- automation GmbH.....	Austria	10A40
Beneke Wire Company.....	USA	13F26
Bennett Mahler Ltd.....	UK	14A24
Bergandi Machinery Co.....	USA	09F09-02
Bergkvist & Co GmbH.....	Germany	13A23
Besel Basim San Tic Ltd Sti.....	Turkey	12E61
BGH Edeltahlwerke GmbH.....	Germany	11H19
Bhansali Stainless Ltd.....	India	13F81
Otto Bihler Maschinenfabrik GmbH & Co KG.....	Germany	10F18
Bilwinco A/S.....	Denmark	14B15
BMS Machines Spécialisées.....	France	14B44
Bobbio Srl.....	Italy	14A48
Maschinenfabrik Bock.....	Germany	10B31
Boffi SpA.....	Italy	10H67
Böllinghaus GmbH & Co KG Remscheider Walz- und Hammerwerke.....	Germany	12A16
Bongard Trading GmbH & Co KG.....	Germany	11C66
Boockmann GmbH.....	Germany	09C32
Borealis GmbH.....	Austria	10D72
Borkener Kistenfabrik GmbH.....	Germany	09A59
A Borrelly SARRL.....	France	14C48
Boxy SpA.....	Italy	10F55
Dr-Ing K Brankamp System Prozeßautomation GmbH.....	Germany	14D32
E Braude (London) Ltd.....	UK	11E32
BRE/LPCB.....	UK	11G20
Willi Bremer GmbH.....	Germany	10A63
Bridon International Ltd.....	UK	11D18
Bright Steels Ltd.....	UK	13F72
Brucker-Spaleck GmbH.....	Germany	10B66
Brune GmbH.....	Germany	14F43
Friedrich Brüninghaus & Söhne GmbH & Co KG.....	Germany	12C34
Bühler & Co GmbH.....	Germany	10E17 >>

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USA
Columbus, North Carolina
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China
Shanghai, China
86-21-6876-5529
sales@fwwdshanghai.com

Asia
Metro Manila, Philippines
63-43-405-5555
sales@fwwdasia.com

Canada
London, Ontario
(519) 859-3030
sales@AdventWireDie.com

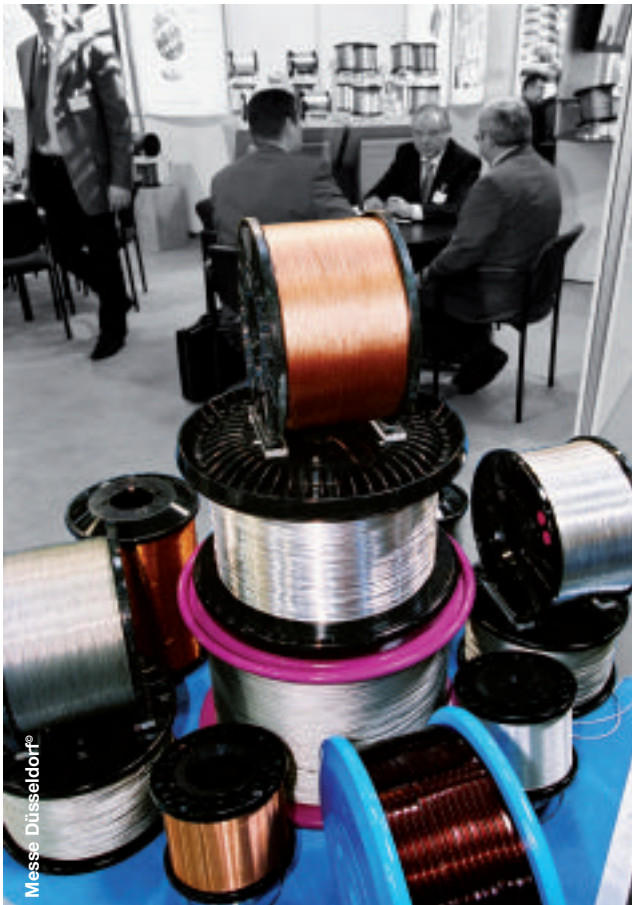
Europe
Frankfurt, Germany
49-6192-25029
sales@FortakEmh.com



wire 2008

◀	Burk Ziehwerkzeuge -		
	Poliermaschinen	Germany	12C60
	Burster Präzisionsmeßtechnik GmbH & Co KG	Germany	11E02
	Buss AG	Switzerland	09C48
	T Butler Engineering Ltd	Ireland	14A35
	BWE Ltd	UK	11F26
	Caber Impianti Srl	Italy	13D30
	Camfart Mole Abrasive Srl	Italy	14C27
	Candor Sweden A/B	Sweden	10B72
	Can-Eng Furnaces Ltd.....	Canada	14D34
	Cape Gate (Pty) Ltd – Group	UK	09A14
	Capresa (Calibrados de Precision SA)	Spain	12A26
	Carbodies Srl	Italy	13D24
	Carrington Wire Ltd	UK	12D37
	Catic Mesh & Wire.....	China	13E38
	CB Trafilati Acciai SpA	Italy	11D62
	CCPIT Machinery Sub-Council	China	13F39-01
	CCPIT Machinery Sub-Council	China	13F45-10
	CEA Costruzioni Elettro- Meccaniche Annettoni SpA	Italy	11A31
	Celik Halat Ve Tel Sanayii AS	Turkey	13C57
	Cemsa SpA	Italy	13B84
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	CeramTec AG Innovative Ceramic Engineering	Germany	10G72
	Cerazit Austria GmbH.....	Austria	10A40
	Cerrini Srl	Italy	10F39
	Cersa-MCI SARL	France	10F09
	Champs Srl	Italy	13F21
	Chandan Steel Ltd	India	13F62
	Changzhou Changhua Photoelectricity Plastic Co Ltd.	China	13C34-10
	Chemetall GmbH	Germany	10G71
	Cheng I Machinery Co Ltd	Taiwan	12B66
	Cheng I Machinery Co Ltd	Taiwan	13E09
	Chengdu Centran Industrial Co Ltd	China	11H70
	Chengdu SL Machinery-		
	Electronic Equipment Co Ltd.....	China	13F45-01
	Chhaperia International Company	India	13D75
	Chi Ning Co Ltd	Taiwan	13E09

China Hongguang Electrical Co, Ltd.....	China	13C34-12
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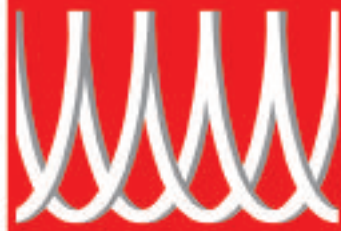
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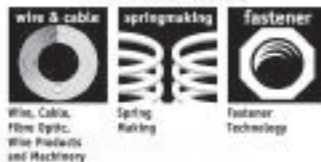
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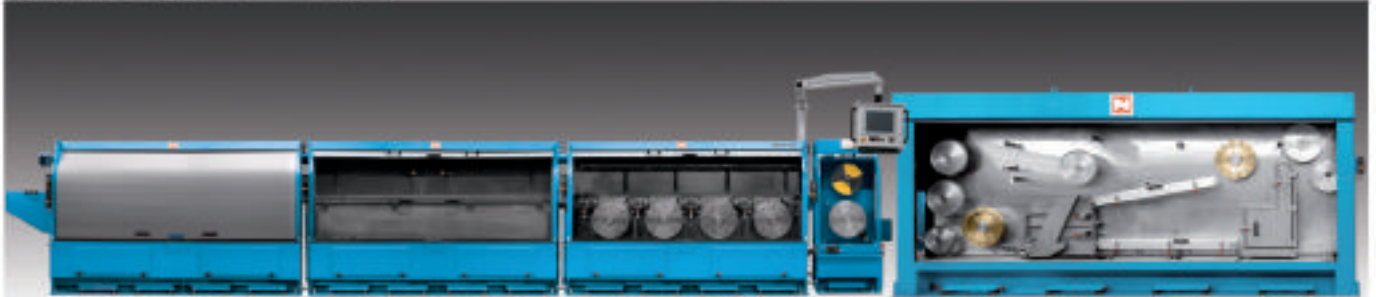
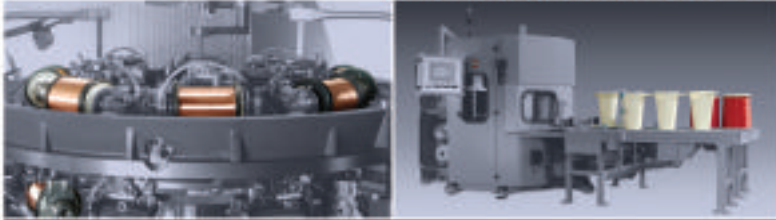
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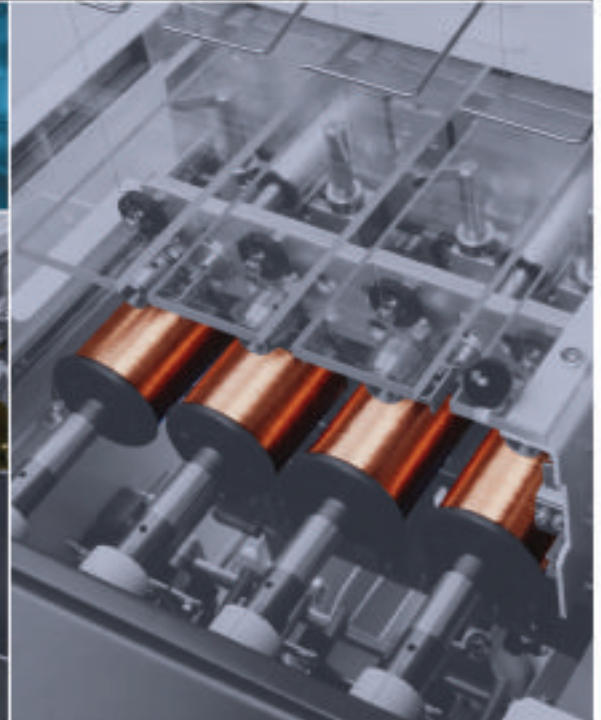


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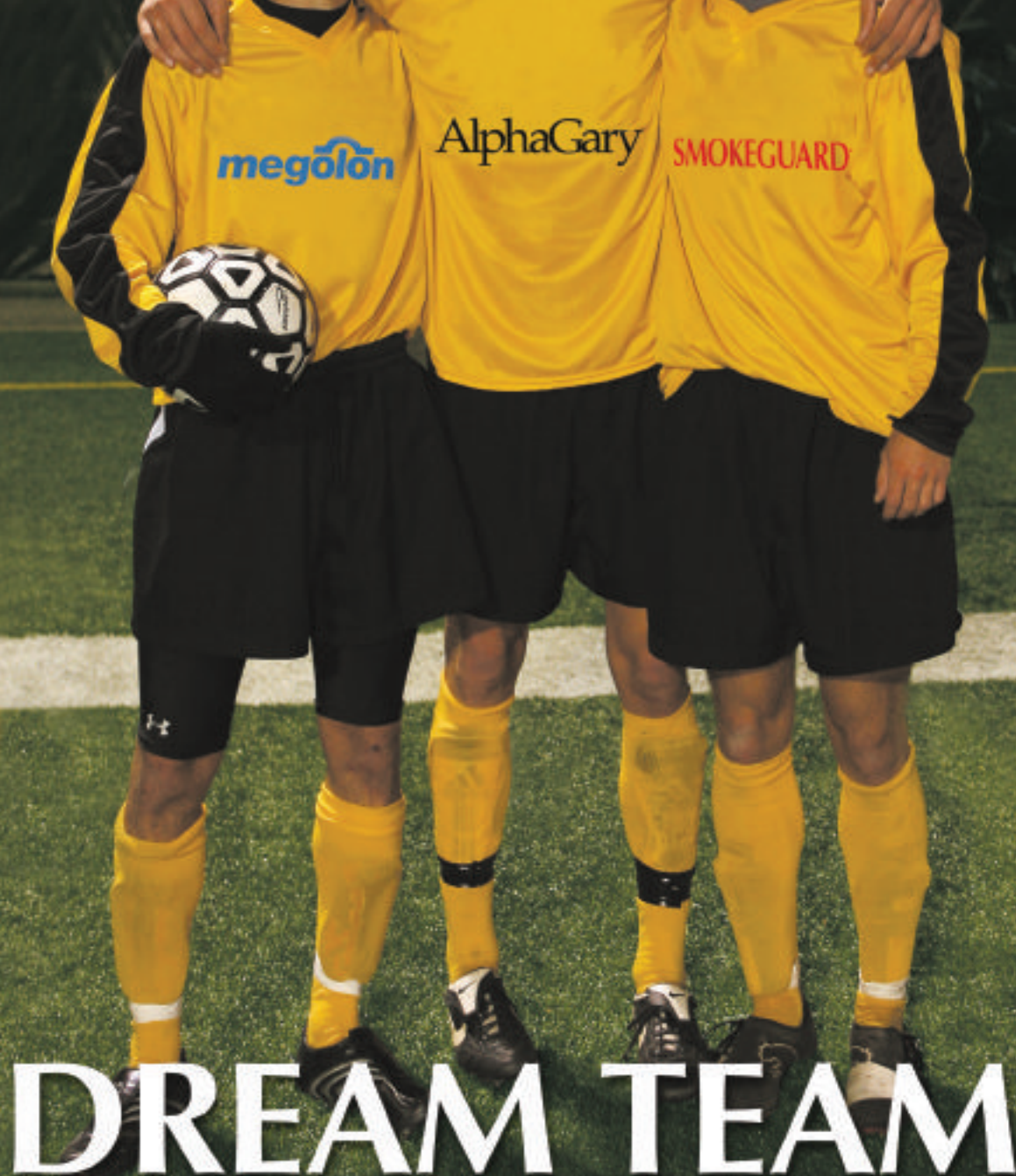
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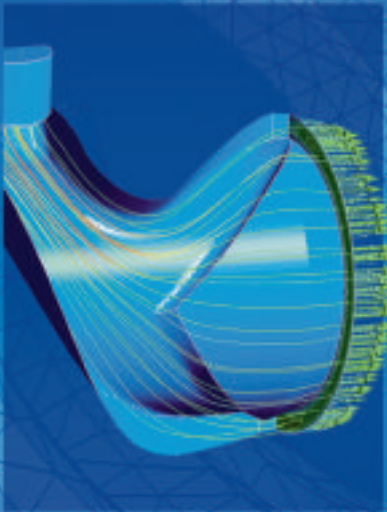
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Verschleiss-Technik Kampfer GmbH.....	Germany.....	10A55
Vida Packaging A/B.....	Sweden.....	13D56
Videx Machine Engineering Ltd.....	Israel.....	13A65
Vipa Srl.....	Italy.....	12D71
Viraj Ltd.....	India.....	09B60
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VMI France SA.....	France.....	12A71
JSC VNIIPK Trade House of VNIIPK.....	Russia.....	10A65
Voco Draht AG.....	Switzerland.....	12E53
Vodkma/AWCMA Verband osterreichischer Draht- und Kabelmaschinen-Hersteller.....	Austria.....	10A40
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Walson Woodburn Wire Die Pvt Ltd	India	09D14-01
Walzwerke Einsal GmbH	Germany	12E71
Wardwell Braiding Machine Co	USA	09C42
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WCISA - Wire and Cable Industry Suppliers Association	USA	09D14-03
WDI Westfälische Drahtindustrie GmbH	Germany	10D04
Weber & Scher Mfg Co Inc	USA	10B71
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The Wire Association International Inc Wire Journal International	USA	11B25
Wire Forming Technology International	USA	09D14-03
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Wirex Dies and Steel India Pvt Ltd	India	09B68
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Withöft Werkzeugtechnologie GmbH	Germany	10A08
WKÖ-Wirtschaftskammer Österreich Aussenwirtschaft Österreich (AWO)	Austria	10A40
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Woodburn Diamond Die Inc	USA	09D14-01

Woywod Kunststoffmaschinen GmbH & Co Vertriebs-KG	Germany	09A42
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WTN Werkzeugtechnik Niederstetten GmbH & Co KG	Germany	14E35
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Yildirim Folyo Ambalaj San Tic Ltd Sti	Turkey	13A92
Yuan Hsian Metal Industrial Corporation	Taiwan	11C06-02
Zami 1950 Srl	Italy	12D22
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Zeller & Gmelin GmbH & Co KG	Germany	09E31
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Zhenxiong Copper Group Co Ltd	China	13F93
Zhiti SA	Bulgaria	13F51
Zhongchen Imp & Exp Co Ltd of Suzhou Industrial Park	China	13A39
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Materials for making cables



The sheer number and variety of materials available today would astonish earlier generations of wire makers. The greater resistivity, conductivity, and insulation values that we take for granted might almost appear to them to have generated a different industry from the one they knew. But they would recognise a few old friends — ordinary high-quality materials — in the lineup.

And the advances in materials technology, as impressive as they are, have not vacated an obligation from an earlier era. Whether few or many, plain or exotic, the materials of wire making require that a choice be made among them. Identifying the best material for a given wire or cable application was always a job for the professional. And it always will be.

More on the way from Solvay

Solvay Padanplast continues to develop silane-crosslinkable materials for wire and cable insulation and sheathing, 'ambient curing' and environmentally friendly, ready-to-use on standard extrusion lines.

Cogegum® GFR/365 is a new generation of crosslinkable LS0H compound for sheathing and insulation purposes.

It allows high oil, fuel and chemical resistance and is used in applications like railway rolling stock, off-shore platforms and shipboard wiring.

Cogegum® GFR/325 is the last generation for BS 7211, E15 grade applications, a new reference for single and multi-core H07ZZ and fire resistant cables.

Cogegum® GFR/340, thanks to its high thermo-mechanical resistance, can be used for heat resistant flame retardant cables. It allows high flexibility, high extrusion speed on conventional extrusion lines, fast ambient curing and no emission of acid and corrosive gases in case of fire.

Polidiemme® G/450 is an extra flexible elastomer-based cross-linkable compound, 'ambient curing' and environmentally-friendly for power, special and very flexible cable insulation and sheathing.

Main applications cover welding cables, H05RRR-F, industrial, immersion water pump, EPDM and EPR cables.

Solvay Padanplast SpA
– Italy
Fax: +39 0521 870 427
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Website: www.solvay.com

Mixing it up to meet demand

Mixer began manufacturing cable compounds in 1996 to meet the specific demands of the wire and cable industry.

Since then, fully automated production lines and highly advanced testing facilities have ensured strong growth in the rubber compounds sector.

The company produces insulation, sheathing, filling and masterbatch cable compounds with both rubber and thermoplastic. The trademark Ekopren® products are based on halogen free polymers and additives with low toxicity and clear smoke emission. Choose from heavy metal free, high LOI and fire/oil/ozone resistant compounds.

An annual production of 20,000 metric tons of cable compounds rolls off new production lines that allow perfect quality continuously. Banbury internal mixers and strainer extruders are used to manufacture compounds only in granule (pellet) form.



○ Strong growth since 1996 for Mixer

More savings are passed on to customers by drastically reducing stock of strips and manpower.

The company also offers technical and engineering services to assist cable manufacturers to adapt their equipment to extrude compounds in pellet form.

Mixer's on-site laboratory is at the disposal of customers for testing material properties and behaviours.

The company continuously tests all types of raw materials, while clients can request tests of their products in order to verify the correct cross-linking of materials, the correct extrusion behaviour and if the product complies with standards.

Engineering assistance is available to maximise the results of clients' machinery.

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Global changes drive advancements in HV/EHV power delivery systems

The growth of the high voltage (HV) and extra high voltage (EHV) global power cable segment remains very strong, driven by industrialisation and urbanisation in developing markets, replacement or refurbishment of ageing power transmission systems in mature markets, and the trend toward underground installation. Dow Wire & Cable works closely with customers, end users, industry associations and testing facilities to develop solutions that can support evolving infrastructures. The materials portfolio offers mechanical strength, flexibility, electrical properties and ageing stability, and continues to set HV/EHV industry standards worldwide for cleanliness, consistency, reliability and overall quality.


Growth and expansion also are an ongoing part of the company's focus. Dow Wire & Cable is enlarging its global reach with new and updated manufacturing and R&D facilities and by adding new and industry-experienced technical service, R&D, marketing and sales personnel.

Dow Wire & Cable provides a complete solution of compounds required by cable makers to manufacture, test and easily install HV/EHV cables. Super clean cross-linked polyethylene (XLPE) insulation compounds are mandatory materials for underground HV cable constructions. HFDJ-4201 S from Dow Wire & Cable meets global testing standards including IEC 62067 for voltage greater than 150kV. Designed for use in HV/EHV power cable applications for transmission and distribution systems, HFDB-0801 and HFDA-0587 BK S conductor shield and bonded insulation shield compounds provide improved processing characteristics and are designed to be compatible with current semi-conductive extrusion processing equipment. New HDPE black jacket resin (DGDK-6800 BK EXP4) offers excellent mechanical and physical properties and outstanding processability. It provides very good ESCR values and meets IEC 60502-1, AEIC-CS7-93, ICEA 720, DIN VDI 02676-620 and type DMP9 requirements for global power cable jackets. DHDA-7708 semiconductive jacket permits easy DC testing of the cable either on the reel or after installation.

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Dow Wire & Cable - USA

Fax: +1 713 978 3275 Email: info@dow.com Website: www.dowwireandcable.com

Flexible help from A&E

New Camel waterblocking yarns from A&E Inc provide cable producers valuable flexibility to tailor yarn count and absorbency characteristics to meet specific application requirements. Specifically designed for filler and binder applications, Camel waterblocking yarn is based on super absorbent fibre (SAF) technology, which provides the ultimate in rapid absorbency. Camel waterblocking yarn can reach 90% of its maximum absorbency in slightly more than five seconds with an average minimum absorbency of 30-grams/gram.



○ Camel waterblocking yarns provide flexibility

This specialised yarn provides for clean and efficient pay-offs from several package formats. With SAF technology, absorbency is built into the yarn. This feature translates into more absorbent material being conveyed into the cable without the powder buildup inherent with most SAP yarn products. Dependent on yarn size, package lengths of over 122,000m are available. Fine-count yarn options (down to 288-decitetex/34.7 km/kg) offer cable designers a new dimension in loose tube constructions and cable weight savings.

A & E Inc - USA

Fax: +1 704 827 0974

Email: northamerica.information@amefird.com Website: www.amefird.com

Approval for Sylvin compounds

Sylvin Technologies Inc, a custom vinyl compound manufacturer, has received approval from both UL and CSA for a line of 105°C lead free, RoHS compliant vinyl compounds designed for flexible cords and cables.

The UL and CSA approvals strengthen a strategic company goal of placing greater focus on products designed for electrical wire and cable applications.



○ Approval for Sylvin Technologies

Sylvin received recognition under UL QMTT2.E69948 Polymeric Materials for use in wire, cable and flexible lighting products – component.

Sylvin also received recognition by CSA in Class 7999-01 polymeric raw materials for wire and cable compounds with 105°C vinyl insulation and jacketing compounds. Four compounds were approved by CSA—Sylvin 5170-85 and 5175-92 as insulation compounds and 6168-80 and 6185-80 as jacketing compounds. Each of the four compounds received approval for use in 105°C SJTOOW with -40°C low temperature approvals.

The Sylvin vinyl compound approvals allow electrical wire and cable manufacturers flexibility in choosing the vinyl compounds they use for the North American market.

In addition to the CSA approvals, the four Sylvin vinyl compounds also carry UL approvals making them ideal compounds for the entire North American flexible cord marketplace.

Sylvin Technologies Inc – USA
Fax: +1 717 336 0547
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Steady growth for Besel

Formed more than 30 years ago, Besel has undergone steady development manufacturing laminated insulating tapes for the cable industry. That development includes an increase in productivity, as well as expansion of its range by adding coated insulating tapes, non-wovens, mica tapes, glass woven tapes, pp foamed tapes, plastic raw materials and plain aluminium foils to its stock list.

The company based in Istanbul, Turkey, produces aluminium foil, aluminium tapes, copper foils, polyester films and laminations and coatings of all film and foil materials for cable, HVAC and packaging industry.

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Solvay Padanplast公司不断地为电线电缆的绝缘层和保护层开发硅烷—交联材料，这些材料柔性好，适应性强，随时可用于标准挤出生产线的生产上。

Cogegum® GFR/365是新一代交联LSOH混合物，可起保护和绝缘作用。它具有很高的耐油、耐燃烧和耐化学反应的性能，用于如铁路车辆、近海平台和船用电缆。

Cogegum® GFR/325是BS 7211, EI5的最新应用，是单芯和多芯H07ZZ以及耐火电缆的一种新型产品。

由于Cogegum® GFR/340具有很高的热—机械阻力，因此可用作热阻耐火电缆。它具有很高的柔性，在传统的挤出生产线上可达到很高的挤出速度，在遇到火灾时它能快速环境恢复并不产生酸性和腐蚀性气体。

Polidiemme® G/450是一种超柔性弹性体交联混合物，对于环境友好、环境可快速恢复，适合各种电力环境，用于绝缘和保护层。主要应用于焊接电缆、H05RR-F、浸水泵、EPDM和EPR电缆。

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Sylvin 公司生产的混合物通过认证

Sylvin技术公司是一家乙烯类混合物的生产商，为软线和电缆设计的适宜温度为105°C的铅和RoHS乙烯混合物 已获得UL和CSA的认可。

UL 和CSA的认可进一步促进了公司将电线和电缆应用产品的生产作为公司的主要战略目标。

Sylvin公司对UL QMTT2.E69948聚合材料在电线电缆和柔性轻产品上的使用获得了认可。Sylvin公司还在配有105°C聚合绝缘和护套混合物的电线电缆的7999-01级聚合原材料方面获得CSA达到认可。

四种乙烯类混合物符合CSA—Sylvin 5170-85 和 5175-92作为绝缘混合物以及6168-80和 6185-80作为护套混合物的标准。四种混合物中任何一种都可在-40°C 低温105°C SJTOOW的环境中 使用。

Sylvin乙烯混合物可使电线电缆制造商在北美市场上灵活地选择乙烯混合物。

除了CSA的认证外，Sylvin为整个北美柔性线缆市场提供的四种乙烯类混合物还获得了UL的认可。

Sylvin Technologies Inc – 美国
传真: +1 717 336 0547
电子邮箱: info@sylvin.com
网站: www.sylvin.com



○ Sylvin技术通过认证

全球发展推动了HV/EHV电力交换系统的发展

高压(HV)和超高压(EHV)电缆的发展势头很强，由于受市场开发工业化和都市化的驱动，在成熟的市场中日益老化的电力传输系统已渐渐被取代或更新。Dow电线和电缆公司与客户、终端用户、行业协会和测试设施保持紧密的联络关系，以便开发出能支持基础设施的解决方案。

该材料具有很高的强度、柔性、电气特性以及稳步老化的特点，由于具有清洁、一致性、可靠性和全面的质量保证，可持续地满足全球范围内的各种HV/EHV行业标准。不断成长和壮大也是该公司的一个核心工作目标。因此，该公司不断地用新产品扩大其业务范围，不断增加新的、具有行业经验的技术服务人员、R&D、市场和销售人员。

Dow公司为电缆制造商在制造、测试和安装HV/EHV电缆方面提供完整的解决方案。超清洁交联聚乙烯(XLPE)绝缘混合物是HV/EHV电缆结构的强制使用材料。Dow公司生产的HFDJ-4201 S满足全球测试标准包括电压大于150kV 的IEC 62067。

HV/EHV电力电缆可用于传输和分配系统，HFDB-0801 和HFDA-0587 BK S导体屏蔽以及绝缘混合物，以提供日益改善的加工特性，并与当前的半导体挤压加工设备相兼容。

新型HDPE黑色保护层树脂(DGDK-6800 BK EXP4)具有很高的机械和化学特性以及优质的可加工性。它能为全球电缆保护层提供很好的ESCR值以满足IEC 60502-1、AEIC-CS7-93、ICEA 720、DIN VDI 02676-620和DMP9型号的需求。

DHDA-7708半导体保护层使电缆在线盘上或在安装后的测试DC的操作简单。

Dow Wire & Cable – 美国
传真: +1 713 978 3275
电子邮箱: info@dow.com
网站: www.dowwireandcable.com

混合生产各种物质以满足需求

Mixer公司于1996年开始生产电缆料以满足线材线缆行业的需求。自那时起，该公司就完全采用了自动化生产线和非常先进的测试设施，确保了在橡胶化合物方面的强大生产能力。

该公司可生产用于电缆绝缘层、保护层、填充物和色母料的橡胶和热塑性化合物材料。其Ekopren®牌产品是基于卤素的聚合体和添加物，具有低毒性，并放射出清晰烟雾。从无重金属、高LOI和耐火/臭氧的化合物中加以选择。

每年产量为20,000公吨电缆混合物的新型生产线的生产质量优异。密闭式内部混炼机和过滤挤压器用于生产粒状(小球状)混合物。



○ 自1996年以来Mixer公司的迅速发展

通过大量减少库存和人力的需求，使用户成本得以很大的降低。该公司还提供技术和工程方面的服务以帮助电缆制造商适应挤出颗粒状混合物的设备。

Mixer公司的在线实验室可帮助用户测试材料的性能。该公司不断地测试各种原材料，以满足用户对其产品的需求，以验证材料正确的交联特性和挤出特性，即使产品满足其执行标准。可提供工程援助使客户的机器达到最佳效果。

Mixer SpA – 意大利
传真: +39 0545 47038
电子邮箱: staff@mixer.ws
网站: www.mixer.ws



Leading suppliers of plant and machinery to the wire industry

MANUFACTURING PROGRAMME

Machinery:

- Multi-block dry drawing machines
- Vertical and horizontal bull blocks
- Rod pay-off systems
- Mono and multi-wire wet drawing machines
- Vertical and horizontal static coilers, with or without drawing drafts
- Inverted rotating coilers for spring wire
- Vertical and horizontal, single or double spoolers
- Multiple spool and coil pay-offs and take-ups
- Double-twist stranding, bunching and closing machines
- Skip stranders, tubular stranders
- Rewinding systems for coils and spools, and coil/spool combinations
- Mechanical descalers, accumulator and stripper capstans, rotating dieboxes, motorized soap mixers, wire temperature sensors, DDA drawing data acquisition systems, and other accessories



Processing lines:

- Electrolytic pickling
- Electrolytic degreasing
- Electro-plating (coppering, tinning, nickel-plating, zincing, brassing)
- Electroless plating (coppering, bronzing, etc.)
- Chemical treatment

Complete plants:

- P.C. wire and strand
- Tire cord and hose wire
- Bead wire
- Wire ropes
- Stainless steel wire
- Welding wire and staple wire



GCR Eurodraw SPA

Via Camillo Chiesa, 19/21
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Re-built & re-conditioned machinery

The occasional news account of the dismantling of a huge steel plant in one country and its reassembly in another makes fascinating reading. The sheer size of the factory; the logistical nightmare of its disassembly, packing, marking, and preparation for transport; the length and expense of the sea voyage to its new locale: taken together, these comprise enough of a challenge to comprehension. We have to take it on faith that such an undertaking makes economic sense.

The smaller-scale commerce in rebuilt and reconditioned wire and cable making machinery imposes no such strain on the imagination. Nor is there any mystery about the fiscal sense of such transactions.

A company seeking to increase profitability without having to make a big capital investment buys refurbished units at a fraction of the cost of new ones. Another company, considering an entry into a promising new niche market, will test its idea with an economical year's lease of some rebuilt equipment. Yet another company, having outgrown some of its own serviceable machinery, sells it on the resale market and applies the purchaser's cheque toward a new state-of-the-art installation.

Necessity is still the mother of invention. In periods of economic uncertainty it becomes, as well, the mother of re-invention. Access to quality rebuilt and reconditioned equipment has helped many a company to keep operating costs in check until things look up.

Moreover, in our increasingly ecology-minded era, it might be asserted that the utilisation of rebuilt and reconditioned machinery is more than merely expedient: it's positively virtuous.

A second life for your equipment!

As a one-stop integrated supplier, Gauder Group has developed an after-sales strategy based on worldwide service presence. With more than 30 years' experience in buying and selling second-hand wire and cable equipment, Gauder SA is the ideal partner for individual machines or complete plant re-building. A high performance workshop enables reconditioning of the machine and restores its productivity and product quality.



○ Example from rebuilding to up-grading: CARB bearings on double twist machines and quick change brushes holder on slip rings

Based on this knowledge and the large stock of more than 1,000 immediately available machines, complete solutions are proposed: production lines can be inspected, tested, reconditioned, modified or modernised. The group proposes a unique approach of combined lines with reconditioned and new items thanks to the synergy with Setic and Pourtier – Gauder Group rotating machines.

Gauder Group – Belgium

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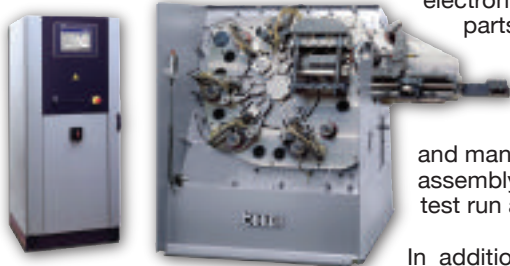
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Overhauled Bihler machines – first class quality!

For more than 50 years, Otto Bihler Maschinenfabrik GmbH & Co KG has been convincing customers worldwide of the quality of its machinery. As technology keeps on developing and markets demand a more and more efficient manufacturing process, Bihler machines get a fresh cell therapy to extend their lifespan even further. The plants are completely reconditioned and generally



overhauled both mechanically, as well as electronically with exclusive use of Bihler original parts. The individual steps of a general overhaul are demounting, complete cleaning, sand blasting and priming, new piping and wiring, overhauling the units as eg feed, press, slide, central, and mandrel, drive assembly, new lacquering, final assembly of machine and E-technology as well as test run and machine acceptance.

In addition, the machines are equipped with the modern user-friendly Bihler control EC-R, which is specifically designed for second-hand machines. Furthermore it is possible to add a full enclosure for noise suppression and operator protection as an option. The range of completely overhauled machines comprises RM 30, RM 35, RM 40, GRM 50, GRM 80, GRM 100, MACH 1, MACH 1/7 and MACH 05. With overhauled Bihler machines customers profit from state-of-the-art technology, constant high availability and productivity at an excellent cost-performance ratio, as well as from the comprehensive Bihler service package with spare parts service, consulting and training, commissioning at the customer's site, maintenance and repair.

Otto Bihler Maschinenfabrik GmbH & Co KG – Germany

Fax: + 49 08368 18258 **Email:** info@bihler.de **Website:** www.bihler.de

Machinery specialist

Ger SA, Belgium, specialises in the sale of new and second-hand machinery for wire and cable, tube and sheet works, for the ferrous and non-ferrous industry.

For sale are single machines and complete plants for steel rod and wire, non-ferrous wire, steel ropes and electrical insulated cables.

A large stock of guaranteed machinery is immediately available. The machines are sold worldwide and in its present condition, or reconditioned and modernised. Test-runs of the machines before shipment, installation and commissioning of the machine and training for the operators complete the service.

Ger SA – Belgium

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System Solutions

Straighteners

Rolls

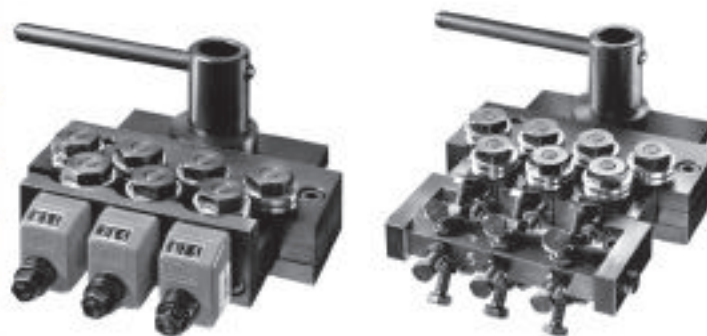
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ER PO

ER MB

**WITELS
ALBERT.COM**

wire
Düsseldorf



11 March – 14 April 2008
Düsseldorf, Germany
Booth 9 E 39

Do you waste time and material setting up your straighteners while producing non constant quality? Do different operators follow their own roll adjustment techniques, which lead to subjective changes in the final results?

Simple methods to preset straightener roll positions result in large advantages in the routine of wire processing. When using the ER PO series, the adjustment mechanisms of the rolls are equipped with position displays from which it is possible to read the exact roll positions. The mechanical rotating "memory bar" on ER MB units allows operators to set and lock-in up to six different settings. By simply rotating the memory mechanism the rolls automatically align to a desired setting for a particular wire size or type.

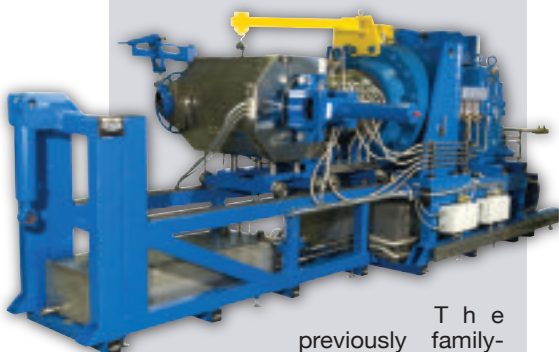
Call the HOTLINE and visit our WEBSITE for more information about our ER PO and ER MB units!

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WEBSITE: www.witels-albert.com
eMail: info@witels-albert.com

High reliability and accuracy from Folke Sandelin

H Folke Sandelin AB (HFSAB) has been supplying continuous lead extruders and the sole supplier of the Hansson-Robertson continuous lead extruder since the 1950s.



The previously family-owned company has been 100% owned by the Canadian company Teck Cominco Metals Ltd since 2003.

The extruder has been improved upon in all aspects, especially the control systems. It is now fully automated in its start and operation with an extremely high reliability and accuracy, something that ensures closer tolerances and lead savings.

The latest design lead extruder is a horizontal, fully automatic, floor standing unit that eliminates the need for a large and expensive foundation pit and is also very easy to maintain (see photo above).

Up until December 2007, four units of the horizontal design have been delivered and another six units are on order.

The equipment is often used to continuously extrude long length cables for over three weeks, which equals around 600 tons of lead alloy to a very high accuracy.

Further lead extruder development is constantly ongoing along with research and development of other equipment for both the cable and battery industries.

H Folke Sandelin AB – Sweden
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Range of options with systems from Design and Engineering



Design and Engineering LLC re-built and new dual take-ups are one of the most advanced with closed loop control traverse and 0-100% torque speed control with vector duty motors. Every system comes with PLC and colour touch in-built screens, control monitoring, alarms, troubleshooting and recipe. As an option, XCoupler modules will exchange data between the machine and Microsoft SQL via an ethernet connection.

○ *Advanced take-ups from Design and Engineering*

Design and Engineering LLC – USA
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A UNIQUE DIE IN ITS ECONOMY

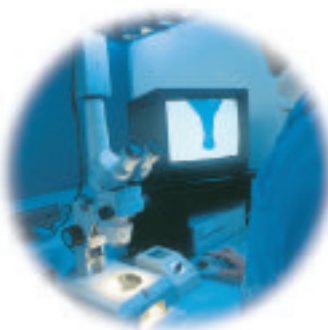
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CHANGES A WIRE



INTO ... MONEY



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Refurbished Carter wire rope closer pays dividends

The cable and wire industry is well aware of the high cost and long lead times of new production machinery. For this reason, many producers favour more cost effective used equipment. However, there are several hidden dangers with used equipment. These include existing maintenance problems, unreliable electrical controls and uncertainty about the capability of the original machine. When combined with transport costs, new foundations for the machinery and immediate running repairs to get the newly installed equipment working again, the true costs can be much higher than expected. The best way to ensure that the decision to put in used equipment is successful is a professional refurbishment of the plant before installation. Furthermore, if the refurbishment company has all the original manufacturing and design information to hand, this will avoid copying worn parts or specifying inappropriate materials.



○ Re-assembly of refurbished bobbin cradles

Cable Machinery Spares Ltd is a company formed for the specific purpose of supplying fully refurbished equipment, built to the original specifications. The company owns and maintains the original drawings and retains the individual build documentation for a wide range of machinery, including B&F Carter, Babcock Wire Equipment, Hanson & Edwards and Winget Syncro. Similar detailed information for General Engineering and Francis Shaw Cable Machinery is available in association with FSCM. Many of the Cable Machinery Spares engineering team worked for one or more of the above companies and have extensive first hand knowledge of these machines. The refurbishment process starts with either the complete or partial rebuild of existing equipment (or alternatively the supply of newly refurbished machinery to order). However, due to the extensive working knowledge of these machines, the refurbishment can also incorporate a number of later design modifications, as well as the latest advances in drives and control systems.

simple, rugged design of the original machinery, combined with the latest drive technology and design improvements; leading in some cases to a three or four fold increase in productivity and reliability.

At the same time, customers with long experience of using these production machines often suggest further improvements that are also engineered into the final refurbished machine. The end result is the best of both worlds – the

Cable Machinery Spares Ltd – UK
Email: sales@cablemachineryspares.co.uk

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Well Gain Cable Systems Ltd.

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E-mail : info@wellgaincable.com <http://www.wellgaincable.com>

Don't suffer because of poor performance

Jay Dorling, general wheelblast sales manager at the Wheelabrator Group, believes that those companies who are unable to invest in new equipment, are putting up with less than efficient machines and ultimately not satisfying their customers needs due to poor blast machine performance. As many firms will be aware, the operating efficiency of machinery is key to achieving maximum output, optimum quality and maintaining strong customer relations, but when efficiency suffers is it time to invest in something new?

The answer is no, not necessarily. A common mistake is to immediately write off or overlook existing machinery. In some cases new is the best option, but more often than not, upgrading or modernising an existing unit reinstates first class production efficiency, reduces down time and is available at a fraction of the cost.

Since Wheelabrator introduced its equipment modernisation programme (EMP) in 2005, it has helped many companies capitalise on and extend the life of existing equipment.

The service is part of the Wheelabrator Plus division, which also offers an extensive range of equipment support services, including training, maintenance, service, parts, consumables, polyurethane fixtures and masking, plus media supplies for blasting, vibratory equipment and washing.

The EMP campaign has become hugely successful and an increasingly important part of the company's business. The unique understanding of industry needs comes from 100 years' experience and continual development in design and manufacturing surface preparation equipment.

The newest edition to the programme is the Titan blast wheel. It is the result of extensive research and development and has been designed specifically to improve the blast performance and efficiency of existing machinery. It can be adapted to fit virtually any wheel blast machine and will lower media consumption, drastically reduce downtime and cut production costs and, in some installations, it has improved efficiency by more than 30%.

Titan allows for increased space between blast wheel and the wear plates, so noise levels are dramatically reduced, creating a better working environment for employees.

Titan wheels reduce carbon emissions through energy efficient motors, making them more environmentally responsible.

Titan has also recently been awarded a product innovation accreditation by the professional jury of trade fair organiser, Eurofinish.

Just months after they were made available to the industry, the first two Titan wheels have been installed in the UK at painting and blasting contractors, Broadblast in Sheffield, as part of their overall company strategy to reduce waste, decrease emissions and introduce a recycling policy.

Wheelabrator – Canada

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修复和 改装设备

○ 改造的盘轴摇篮的重新装配

有时会看到规模巨大的钢厂在一个国家拆除然后在另一个国家重新安装起来的令人惊讶的报道。工厂的规模，以及拆卸、包装、标记和准备装运过的程简直就是个噩梦，还有海运到新地点的时间和费用，综合考虑这整个就是一个严峻的挑战。但是我们确实相信这样的项目会带来经济效益。

小规模修复和改装的电线电缆制造设备贸易不会带来这种想象中的问题，而且在财政上也没有什么神秘的。寻求提高利润的公司不需要投入大量资金，只需付购买新设备费用的一小部分的钱去买修复的设备。有些公司考虑进入这一前景看好的新市场领域，会采用经济的按年租赁的修复设备来尝试这一计划。而另外一些发展壮大公司将不适合他们但仍可使用的设备在二手市场卖掉，然后将资金投入最先进的设备中。

需求是发明创造的源泉。经济低迷时期也成了技术改造的动力。使用修复和改装的设备帮组很多公司节省下经营成本以待形势好转。

除此之外，在我们环保意识不断提高的时代，使用修复和改装设备不单只是节约费用：也是一种美德。

改造设备的优势

电线电缆行业新机器的产生始终是高成本和长周期的。为此，许多生产者正在努力使低成本设备能发挥出更大的作用。然而，使用这些设备还存在几项隐患，包括现存的维护问题，电控制的不可靠性和原始机器加工能力的不确定性。当将运输成本也计算进来时，对机器设备和立即运行维修以使新安装设备再开始工作，其真正的成本要比预期成本大得多。

确保使用设备的决策取得成功的最好方法是在安装前从专业的角度改造工厂生产环境。另外，如果改造公司手头掌握了全部原始的制造和设计资料，这有助于避免部件的磨损或材料选择不恰当。

Cable Machinery Spares公司的宗旨是专门在设备原有参数的基础上提供完整的改造方案。该公司拥有和维护原有图纸，为大量机器保存有单个的改造文件，包括B&F Carter、Babcock电线电缆设备、Hanson & Edwards以及Winget Syncro。

详细的总工程师信息和Francis Shaw 电缆机器的相关资料可从FSCM获取。许多电缆机器工程人员为以上一家或多家公司服务，掌握了这些机器现有的一手资料和技能。

改造过程从现有设备（或订购的新改造机器）的全部或部分结构开始。然而，考虑到这些机器的扩展，改造工作还要

考虑以后所要进行的许多设计修改，以及在驱动和控制系统方面的最新技术。

同时，对这些机器产品具有丰富经验的用户常常建议要对最终改造好的进行进一步的改善。其最佳最终结果是将原始机器简单而粗略的设计与最新的技术与设计结合起来，在某些情况下使产量或可靠性提高三到四倍。

Cable Machinery Spares公司所提供的服务不仅仅局限于安装上，该公司还提供消耗和备用零件以及正常服务以使停工时间最小，以确保将来设备的生产效率。

由Cable Machinery Spares公司提供的服务并不局限于上述机器，这些服务应用于其他类型的机器也同样取得了成功。

最近完成的工程案例包括：

对最新改造的in-situ, B&F Carter 35公吨钢丝绳成绳机进行了进一步检修。装配了新型蓝圈和一个可更换的中心管，而对托架进行了重新改造和装配。包括更新控制和驱动的被改造零件使之运行更加可靠，生产率得以提高。

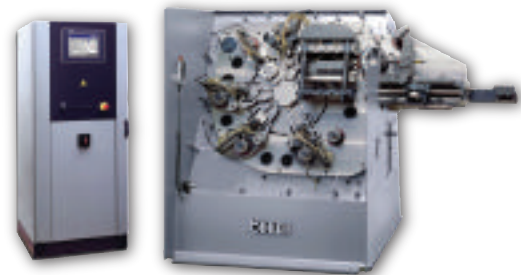
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历经验证的 Bihler 机器 – 绝对一流的产品！

50多年来，Otto Bihler Maschinenfabrik GmbH & Co KG公司已获得了世界各地用户对他们的机器质量的信任。技术的不断进步以及市场需求的扩大促进了加工工艺的高效，因此，Bihler机器能不断获取新鲜血液并发展壮大。

这些设备完全被修复，除了要使用Bihler的原始零件外均从机械和电方面进行常规改造。常规改造包括拆分、彻底清洗、喷砂清理与启动、新型管道和电线的布置、改造如进给，施压，滑动和定中心等部件、驱动装配、喷漆、机器和电子问题的最后装配以及试运行和机器验收。

另外，这些机器配备了现代化的用户友善的专门为二手机器设计的Bihler控制EC-R结构。而且，还可以增加一个全封闭的噪音抑制和操作者自检的选项。这些完整翻修过的机器包括RM 30、RM 35、RM 40、GRM 50、GRM 80、GRM 100、MACH 1、MACH 1/7和MACH 05。



○ Bihler 产品质量是根本

使用改造的Bihler机器，用户可以体会到最新技术所带来的效益、在相当高性能比的前提下获得稳定可靠性和高生产效率、从广泛的Bihler服务以及备用零件的服务中受益、为用户进行咨询和培训以及试运行、提供维护和维修。

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设计与工程公司 所提供系统的选 项范围

设计与工程公司重新改造的LLC 和新型双收线装置是最先进的机构之一，该装置利用矢量负荷电机进行闭环控制节距和0~100%的扭矩速度控制。



○ Design and Engineering 先进的收线机

每个系统都从PLC和彩色内置触摸屏、控制监视、警报、故障检修和工艺开始着手。XCoupler模块在机器和Microsoft SQL之间经以太网连接来交换数据。

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传真: +1 973 439 9224
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要善于改变机器性能不好的状况

Wheelabrator集团销售总经理Jay Dorling相信那些没有能力投资新设备的公司虽然能够忍受效率低下的机器，但终究会由于这些机器的性能问题而使用户失望。

由于许多公司已经意识到，机器的操作效率是提高生产力、改善产品质量和维护用户关系的关键因素，那么，如果效率很低，这是时候投资于新机器吗？

答案是：不一定。一个普遍存在的错误认识就是立即丢弃或闲置现有机器。在某些情况下，新机器是最好的选择，但并不完全如此，改造或改进现有设备使之达到一流的生产效率，减少停工时间也是在减少成本的前提下可选方法。

由于Wheelabrator公司在2005年引进了设备现代化计划(EMP)，该项计划帮助许多公司扩大了生产，延长了设备的使用寿命。这项服务是Wheelabrator公司决策的一部分，该决策还可以扩大设备支持服务的范围，包括培训、维护、服务，以及为喷丸、振动和清洗工艺添加媒介物。

该EMP计划是成功的，并在公司经营中其地位日益重要。这种对工业需求独到的领悟来自于100多年的经验以及在设计和制造方面持续发展的累积。

该项计划的最新版本是Titan喷丸轮。它是深入研究和发展的结果，主要用来改善现有设备的性能和效率。它能适应于实际中任何轮式喷丸机器，降低媒介物的消耗，大大地减少停工时间，节约生产成本，能将效率提高30%以上。

Titan机器能提高喷丸轮和摩擦盘之间的空间，所以大大地降低了噪音，使机器能更迅速地适应于环境需求。

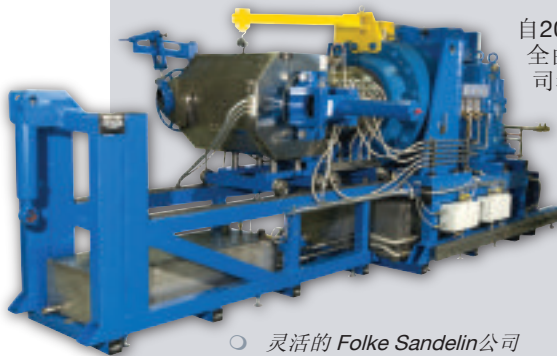
最近，Titan机器还获得由Eurofinish的交易组织者组成的专业评审团批审通过的“生产革新”的荣誉称号。

仅仅数月后，Titan机器被应用于实际工业中，最先的两个计划安装于英国Sheffield的Broadblast内的印刷和喷砂机上，并以此作为他们公司全面策略以降低浪费和减低排放物，并作为非废物利用的策略。

Wheelabrator – 加拿大
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Folke Sandelin公司产品的高度可靠性和准确性

自1950年以来，H Folke Sandelin AB (HFSAB)公司始终提供连续挤铅机，并是Hansson-Robertson连续挤铅机的唯一供应商。



○ 灵活的 Folke Sandelin公司

自2003年起，先前这个家族性公司已经完全由加拿大Teck Cominco Metals有限公司独资经营。

挤压机已经从各个方面全面得以改善，尤其是控制系统。在它启动和操作时已经完全实现了自动化并有很高的可靠性和准确性，在一定程度上能确保很小的加工偏差和节省铅材料。

最新设计的铅挤压机是水平式的，已完全自动化，地面采用支承结构而无需大量而昂贵的地基，且易于维护。

直到2007年11月，又开发出4种水平结构，另外6种结构也可以开始订购了。该设备常用于连续挤压长电缆超过三星期以上，这相当于将600吨铅合金处理到很高的精度。而且，铅挤压机的发展常常与电缆和电池行业其他设备的研究和发展情况关系紧密。

H Folke Sandelin AB – 瑞典
传真: +46 141 20 36 39

电子邮箱: info@hfsab.com
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设备的第二次生命！

作为一站式集成供应商，Gauder集团已经开发了适合于世界范围内的售后服务策略。随着三十多年来在采购和销售二手电线电缆设备的经验，Gauder集团成为单个机器和成套机器改造的理想伙伴。高性能车间为改造设备提供适宜条件，确保了生产率和产品质量。

根据该集团现有的便利条件以及1000多台现货机器，可提供完整的解决方案：可对生产线进行检查、测试、修理、改造或使之实现现代化。

由于与Setic和Pourtier的合作关系，该集团提出一种独特的方法将生产线与改造项目和新项目很好地结合起来。

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传真: +32 4367 8798
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gauder@gaudergroup.com
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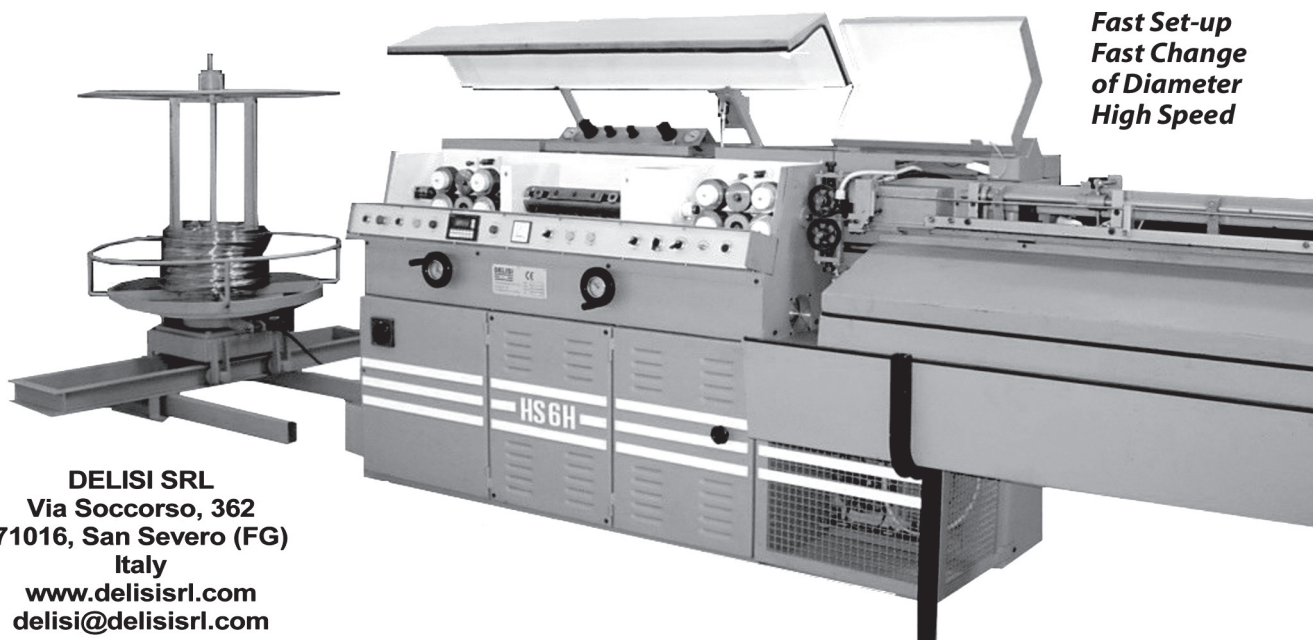


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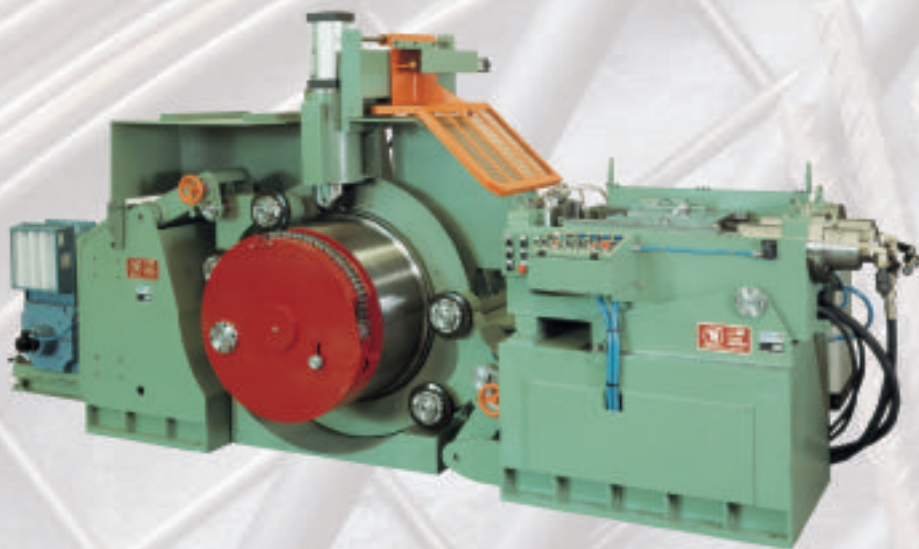
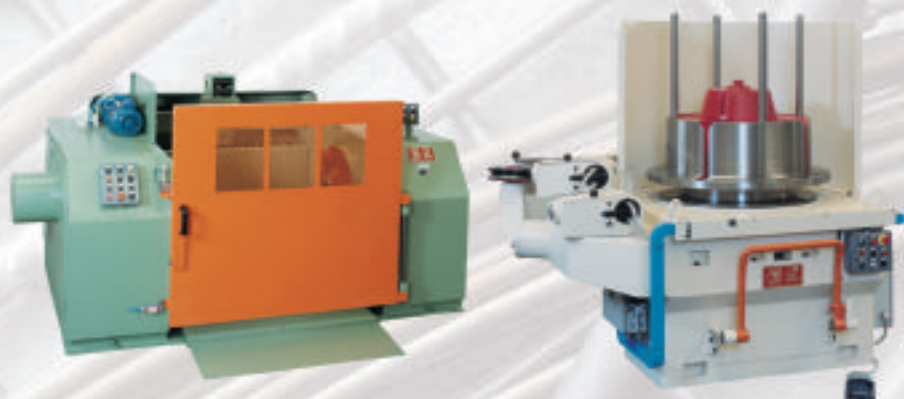
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