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July 2008



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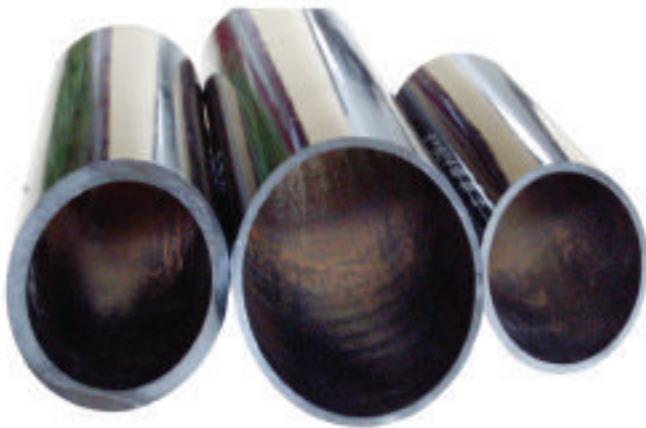
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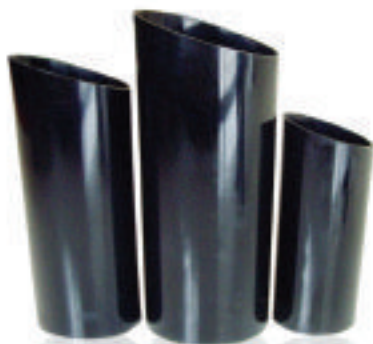


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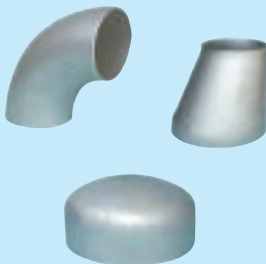
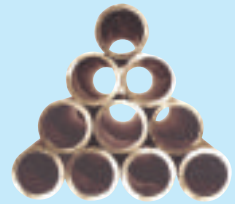


STAINLESS STEELS - NICKEL ALLOYS - TITANIUM



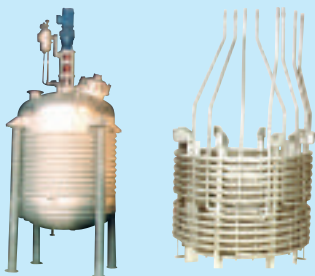
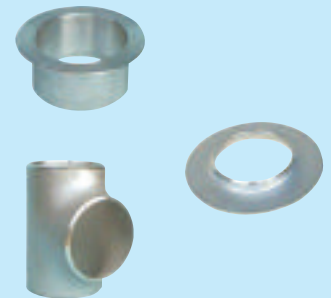
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July 2008

Contents

- 8** Business & Market News
- 18** Products & Developments
- 34** Fittings
- 38** EuroBLECH 2008
- 42** Feature:
Raw Materials for Tube Making
- 46** Tube China 2008
- 59** Corrosion resistant pipelines:
solutions in the power industry
Fibrepipe GmbH, Germany
- 63** Editorial Index
- 64** Advertisers Index



Tube Products

INTERNATIONAL

The World of Tube & Pipe Products, Materials & Ancillaries



Busy busy!



What an eventful year 2008 is turning out to be! No sooner have we returned from the recent and successful Tube Russia and Tubes & Fittings Ukraine exhibitions, than we are now preparing for the upcoming Tube China, EuroBLECH and Fabtech exhibitions that are rounding off this very busy year of industry events.

In this issue we will be focusing on the Tube China and EuroBLECH shows which continue to improve year on year in terms of exhibit space sold and visitor attendance. Tube China 2008 completely sold out of exhibition space earlier this year, and it is only its third staging since humble beginnings in 2004. Tube Products INTERNATIONAL magazine will be exhibiting at both these events as well as Fabtech later in the year – which we will be reporting on in our October edition.

As a further bonus, you will also find a special feature in this issue relating to the variety of metal, plastic & composite raw materials that are used in the manufacture of tube and pipe products.

We hope you all enjoy your summer vacations and manage to restore your energy levels for what is sure to be a busy and successful last quarter of 2008!

Paul Hogg
Editor

events calendar

2008

September
23-26

Tube China 2008
International Exhibition
www.tubechina.net

October
6-8

Fabtech 2008
International Exhibition
www.sme.org/fabtech

2009

January
10-13

Tube Arabia 2009
International Exhibition
www.alfajer.net

March
5-8

Boru 2009
International Exhibition
www.boru.com.tr

May
12-15

Tube Russia 2009
International Exhibition
www.metallurgy-tube-russia.com

June
17-19

Tubes & Fittings Ukraine
International Exhibition
www.tube-ukraine.com

October
6-8

Tubotech 2009
International Exhibition
www.cipanel.com.br

October
13-15

Tube Southeast Asia 2009
International Exhibition
www.tube-southeastasia.com

November
15-18

Fabtech 2009
International Exhibition
www.sme.org/fabtech

2010

April
12-16

Tube Düsseldorf 2010
International Exhibition
www.tube.de

For further information on any of the above events please contact INTRAS Limited UK office (address and contact details on page 4)

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business & market news

Photo – Muller Europe Ltd

Socotherm awarded contracts worth €10m

Socotherm SpA, Italy, a leading company in the field of pipe coating for energy transportation, has been awarded new contracts for pipe anticorrosion, concrete weight coating and thermal insulation with a total value of around €10m.

The Baraka Project, awarded by Tenaris, relates to the 3-layer polyethylene and concrete weight coating of 54km of 12" pipes to be laid offshore from Barzak Platform to the Land Territory End of Tazerka, Tunisia, while the Maamoura Project relates to 3-layer polyethylene and polypropylene and concrete weight coating of 22km of 10" diameter and 2km of 12" diameter pipes connecting the LTE of Tazerka to the Maamoura Platform. The two jobs, for a total value of about €5m, will be carried out using the company's new Marine Base, during Q2 and Q3 2008.

The new Marine Base, located in Pozzallo (RG) port, an important oil and gas junction in Sicily, in the centre of the Mediterranean area, is planned to serve future projects in the region. It includes a covered area of approximately 12,000m², where internal and external anticorrosion/thermal insulation (deep water) coating plants have been erected. The outside area

of around 128,000m² will allow storage of bare and coated pipes. A concrete weight coating plant completes the range of services offered.

Socotherm was also awarded the important Deep Water Project Olowi Field Development, which will be performed at the facilities of Adria (RO) in Q2 2008. The contract, valued at around €3m and awarded by Saipem, relates to the 5-layer polypropylene foam thermal insulation and concrete weight coating of 14km of 10" diameter pipes to be laid offshore at the Ivory Coast.

The company has also been awarded other contracts relating to pipelines to be laid in the Adriatic Sea, for a total value of about €2m. Anticorrosion and concrete weight coating works will be performed at the Adria (RO) facilities.

Socotherm offers all types of pipe coating, including external and internal anti-corrosion, concrete weighting and thermal insulation. In particular, the group specialises in thermal insulation for the deep water sector (oil extraction from great depths), offering state-of-the-art technological solutions with high added value. Socotherm is also active in the design, production and sale of

Interpipe appoints new director of corporate affairs

Steel pipe and railway wheel producer Interpipe has announced the appointment of Mr Oleg Kuzmin to the position of director of corporate affairs. In his new position, Mr Kuzmin will be responsible for the company's PR strategy and communications policy, as well as the coordination of external and internal communications and promotion of the company's brand in strategic regions.

Before joining Interpipe, Mr Kuzmin was head of communications and external relations at Eurocement group, and has also held executive positions at communications agency SPN Ogilvy Public Relations. He graduated from the Department of Law at Petrozavodsk State University and studied PR and advertising at Umeo State University (Sweden), and has further diplomas from the Central European University (USA) in political science and PR studies and from the Baltic University (Finland) in sustainable development.

According to the company's chief executive officer, Alexandr Kirichko, *"Interpipe is a major player in the world pipe and railway wheels markets and communicates daily with diverse audiences such as customers, journalists and authorities. Oleg Kuzmin has many years of experience in communications and public relations and I believe he will help Interpipe to strengthen its position in its key regions."*

Interpipe – Ukraine
officechudnovskydp@interpipe.biz
www.interpipe.biz

coatings and insulation plants for piping and district heating, in the sector of special thermal insulation for LPG tanker ships and in the maintenance of road surfaces with ecologically compatible technology.

Socotherm SpA – Italy
socotherm.corp@socotherm.com
www.socotherm.com

International water forum

First launched in 2003, the international water forum Aqua Ukraine became the largest annual event in Ukraine focused on all sides of industrial and municipal water use.

Aqua Ukraine 2008, to be held in Kiev, Ukraine, 7-10 October, will unite the work of the specialised exhibition with the science conference Water & Environment (organised by the Ministry for Environmental Protection of Ukraine and the State Committee of Ukraine of Water Management).

The event promotes the implementation in Ukraine of advanced technologies and modern materials for water preparation, water supply and water disposal, the latest engineering systems, pipelines and other equipment for supplying customers with water resources.

The exhibition will allow Ukrainian and foreign companies to present their products and technologies to a wide range of visitors.

International Exhibition Centre Ltd – Ukraine
aqua-ukraine@iec-expo.com.ua
www.tech-expo.com.ua

Hypertherm announces double-digit increase in stock valuation

Hypertherm has announced a new valuation for its stock of \$43.25 per share, for a year over year increase of nearly 15%. The new price compares with a 2006 valuation of \$37.75 per share.

The valuation follows a strong year for Hypertherm, in which the company experienced record sales and earnings. It is the fifth consecutive year the company has posted double-digit growth.

“Continued strong demand for our products, both domestically and

Valsir sponsors powerboat racing team



▲ Participants in the race will travel 1,600 miles around the coastline of Great Britain

Valsir, Italy, produces advanced systems for soil and waste, and for heating and potable water. Products include a complete range of polypropylene pipes and fittings with quick-fit joints, and high-density polyethylene electrofusion pipes and fittings; a broad range of in-wall and exposed cisterns (50 models); the modern Silere system, a range of pipes and fittings manufactured using sound absorbing material; the Pexal multi-layer pipe system, with the relative fittings; a wide selection of traps and specific equipment; and a new floor heating system.

The company has sponsored Team Pulsar in the Round Britain Offshore Powerboat Race 2008, described as the ‘Everest of Powerboat Racing’. Over 60 boats, crew and support teams were lined up to take part in the 1,600 mile marathon race. Team Pulsar has entered two boats in the race, and aims to contribute the proceeds of the race to a children’s charity.

Valsir SpA – Italy
valsir@valsir.it
www.valsir.it

Team Pulsar Racing – UK
www.pulsar-racing.com
www.roundbritainrace.co.uk

internationally, along with Hypertherm’s commitment to continuously improve has allowed Hypertherm to thrive in these tough economic times,” commented Carey Chen, the company’s chief financial officer.

As a private associate owned company, the 2007 share price for Hypertherm was determined by an independent appraisal by New Hampshire-based Atlantic Management Company, which looked at factors such as current financial performance, future cash flow prospects, and the market value of other

industrial product companies similar to Hypertherm.

Hypertherm launched the Hypertherm Stock Ownership Plan (a qualified ESOP) in 2001. At the time, shares were valued at approximately \$7 each. The company’s international associates take part in a similar programme called the Global Stock Value Plan (GSVP).

Hypertherm Europe – Netherlands
hteurope.info@hypertherm.com
www.hypertherm.com

Support for management buy-out

3i, a European mid-market private equity company, has signed an agreement to support the management buy-out of the UK and Ireland Infrastructure businesses from the Uponor Corporation.

Following successful completion of the sale, the new business will be named Radius Systems Ltd, and will be a leading UK supplier of plastic pipe systems for the underground gas, water and telecommunications utilities.

Keven Parker, 3i buyouts partner, commented, "We were attracted by the operational excellence, quality of the product portfolio and innovation backed by a high calibre management team. Utilities are demanding of their suppliers and we believe that the Radius business will excel at meeting these requirements."

During 2007, the divested business enjoyed net sales of around €170m and employed 470 people, all of whom transfer to the new enterprise.

Included within the sale are the businesses of four manufacturing plants located at Hilcote (Derbyshire, England), Banbridge (Northern Ireland), Newton Aycliffe (County Durham, England) and Cork (Republic of Ireland).



▲ The manufacturing facility at Hilcote, Derbyshire, is one of four plants included in the deal

Stuart Godfrey, CEO of Radius Systems, said, "We believe the sale of the infrastructure business provides a bright future for our customers and our employees. We now have a strong, UK-headquartered business, able to concentrate all its energy and resources on serving the needs of our many customers in the utilities markets. With 3i's involvement and experience, we will be able to capitalise on the market prospects ahead and to grow our international business too."

The change will allow the management team to maintain the company's position in the utilities sector and to bring further investment to the UK and Ireland operations to grow in response to new opportunities. Alan Fletcher joins the new board as non-executive chairman.

Uponor – UK
uponor.sales@uponor.co.uk
www.uponor.co.uk

Mill completes ISO/TS 16949:2002 certification audit

Plymouth Tube Company is a global supplier of speciality carbon, alloy, nickel alloy, and stainless steel tubing for mechanical, pressure, boiler, and hydraulic applications. Steel, nickel and titanium extruded and cold drawn shapes are produced by Plymouth Engineered Shapes.

Plymouth Tube Company's Eupora Mill has completed the ISO/TS 16949:2002 surveillance audits 3 and 4. The audits consisted of two auditors for 1.5 days of auditing on all shifts. The Eupora Mill was established in 1985 to supply the hydraulic tube market, and also serves the DOM tube market. Products offered include: Hydrabrite (Hydraulic J525), DOM A 513 type 5, and processes such as short cut, end finishing and fabrication.

The aim of ISO/TS16949 is the development of a quality management system that provides for continual improvement, emphasising defect prevention and the reduction of variation and waste in the supply chain. TS16949 applies to the design/development, production and, when relevant, installation and servicing of automotive-related products, based on ISO 9001:2000 which is specific to automotive production and relevant service part organisations.

With ten manufacturing plants across the US, Plymouth Tube Co is positioned for continued global growth supplying the aerospace, transportation, energy, and industrial markets. Over the last five years, the company's sales revenue has more than doubled, due to market share growth and strategic acquisitions.

Plymouth Tube Company – USA
www.plymouth.com

Contract for offshore project

Socotherm SpA has been awarded a contract in the Ormen Lange Southern Field Development Project – Phase II.

The contract, awarded by Statoil, relates to the application of external 3-layer polyethylene anticorrosion coating (Plastykote®), internal blasting SA2, and anodes application on about 36km of 16" pipes and 14km of 6" pipes to be laid offshore. Coating works, for a total value of €2.5m, will be performed at the Socotherm Marine Base, Pozzallo, Italy, in the 4th quarter of 2008.

Zeno Soave, chairman and CEO of the group, considers Ormen Lange a

strategic contract, as part of the Frame Agreement signed with Statoil last year. Under this agreement, which had an initial term of five years, Socotherm and Statoil work closely in an extensive partnership aimed to guarantee Statoil's coating needs for its projects either in North Sea or abroad.

The Ormen Lange field, discovered in 1997 in the deep-water of Norway, is one

of the world's largest gas reservoirs. The gas is processed onshore at Nyhamna, in Aukra municipality, and exported 1,200km to Easington, UK, through the world's longest offshore gas pipeline. At peak production, Ormen Lange will produce close to 20% of the UK's gas requirements, and establish Norway as the world's second-largest exporter of natural gas after Russia.

Socotherm SpA – Italy
socotherm.corp@socotherm.com
www.socotherm.com



Saint-Gobain's new regional sales manager

Saint-Gobain Pipelines has appointed Gary Dwyer as regional sales manager for the UK's Midlands area, to develop customer relations and strengthen the water and sewer team.

Mr Dwyer's previous experience includes European sales manager for ULVA International Ltd and sales roles at Rockwell and Armacell Insulation. He will be developing new business, maintaining key accounts and enhancing customer service in his region.

Saint-Gobain Pipelines supplies ductile iron pipes, fittings, valves, access covers and gratings, and also produces cast iron above and below ground drainage systems. Its markets include water and sewerage, telecommunications, highways, civil engineering, construction and housing.

The company is part of the multinational Saint-Gobain Group, which has three business divisions – glass, high performance materials and housing products.

Saint-Gobain Pipelines – UK
sales.uk.pipelines@saint-gobain.com
www.saint-gobain-pipelines.co.uk

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BASF names Swagelok as a global preferred A-supplier

Swagelok Company has announced its designation by BASF as a global preferred A-supplier for fluid systems technologies. The award was celebrated with the signature of a new agreement and the handover of a BASF Procurement Verbund Global Supplier Certificate, awarded to companies that both meet the company's worldwide procurement standards and have attained outstanding standards for technical innovation and product quality.



▲ Associates from Swagelok Company and BASF attended the certificate presentation

BASF's portfolio includes chemicals, plastics, performance products, agricultural products and fine chemicals, and it uses Swagelok® products in a variety of applications.

Swagelok Company is a developer and provider of fluid system solutions, including products, assemblies, and services for the research, instrumentation, pharmaceutical, oil and gas, power, petrochemical, alternative fuels, and semiconductor industries. The company delivers its products and services not only in the United States, but also in Europe and in Asia.

Matthias Fankhänel, senior vice president, BASF global procurement and logistics, commented, "BASF sets demanding standards and has high expectations towards its suppliers. Swagelok deserves our recognition because it has been working very hard to meet these standards. The certificate acknowledges Swagelok's success and establishes new goals for BASF's suppliers."

Arthur F Anton, Swagelok president and chief executive officer, said, "We are tremendously proud and grateful that BASF has demonstrated its continued trust and confidence in our ability to provide the highest levels of performance, quality, and on-time delivery. As the preferred supplier, we are now in a position to provide BASF with its desired global support for Swagelok products through our extensive network of authorised sales and service centres around the world."

Swagelok Company – USA
www.swagelok.com

Swagelok Europe – Switzerland
www.swagelok.com

BASF – Germany
www.basf.com

3rd International Tube & Profile Exhibition

The 3rd International Tube & Profile Exhibition will be held 6-8 August 2008 at Hejab Hall, Tehran, Iran.

The exhibition aims to gather together those active in tube and profiles, including producers, related organisations and specialists, in order to showcase and represent the latest products and industrial technology in the field of tube and profile industry software and hardware. The event will also feature discussions about the obstacles and challenges faced, domestic and foreign market strategies, and counselling about goal development methods.

The previous exhibition was attended by 32 Iranian organisations and 12 foreign organisations from seven countries (UK, Italy, Germany, Russia, China, Malaysia and India).

Mine & Mining Industries Database
– Iran
hossein_yaftian@yahoo.com

Linde Group sells valve production facility

Gases and engineering company The Linde Group, Germany, has sold its MAPAG Valves GmbH valve production facility to the international technology corporation Metso, Finland, at an enterprise value of €36 million. The contract will enter into effect on approval from the relevant anti-trust authorities, and will allow Linde's engineering division to focus on its core competencies.

MAPAG is a specialist in producing high performance butterfly valves for different types of plants in the petrochemical, air separation and liquefied natural gas industry.

The Linde Group has more than 50,000 employees working in around 100 countries worldwide. In the 2007 financial year it achieved sales of €12.3 billion.

The Linde Group – Germany
info@linde.com • www.linde.com

Rehau wins innovation prize

The Awadukt Thermo air and geothermal heat exchanger system from Rehau has won the HVAC&R innovation prize for 2007, which is awarded annually by the Italian newspaper *Costruire Impianti*.

The system was also awarded the gold medal in the context of the BUDMA international construction trade fair in Poland in January 2007, and won a prize in February 2007 at France's only specialist trade fair for renewable energy sources, Salon des Energies Renouvelables.

The HVAC&R innovation prize distinguishes products that are significantly above the industry standard and that make a tangible contribution to environmental protection. Products should also be easy to install and user-friendly. The award takes into consideration products from a total of seven different product sectors: air conditioning technology, heating technology, thermal energy harnessing, cooling technology, hydronics, air processing, and operating and regulation systems for plants.

With the Awadukt Thermo air and geothermal heat exchanger system, the energy storage capacity of the soil is used to make controlled ventilation more efficient. Here, the fresh air that is sucked in is additionally warmed in the winter or cooled in the summer by the temperature of the soil. This can provide savings on energy costs for the heat recovery equipment and thus reduce operating costs. From experience, one air and geothermal heat exchanger system can increase the air feed temperature by up to 20K in the winter and reduce it by up to 14K in the summer.

With Awadukt Thermo, Rehau claims to have developed the first air and geothermal heat exchanger with an antimicrobial pipe lining. This lining is set with silver particles and therefore reduces microbial growth, and air hygiene is significantly improved.

Rehau can supply a complete system, from air intake through to transmission to a heat recovery device, and can also provide calculation software free of charge, which can be used to take into consideration criteria such as climate, soil type, operating time or installation

geometry, allowing individual designs to be produced for each building.

Rising energy prices and dwindling resources are causing a focused change in the thinking of building owners, planners and architects. Renewable energies represent a particularly environmentally friendly and economical alternative. Rehau identified this trend and has long been campaigning for

research into and the increased use of energies from the sun, geothermal heat or biogas. Not only are these energies renewable, environmentally friendly and preventive of climate change, they also ensure a reliable and adequate supply for future generations. Existing costs can be reduced and independence from constantly rising energy prices can be achieved.

Rehau AG + Co – Germany
info@rehau.com
www.rehau.com

HIGH PRESSURE FITTINGS

Forged-Carbon-Alloy-Stainless Steel, Threaded and Socket Weld

PRODUCTS:

90°/45° elbow, tee, union, coupling, bushing, plug, cap, insert, pipe nipple & swage nipple . . .etc.

MATERIALS:

- Stainless Steel: ASTM A182, F304/304L, F316/316L, F304H/F316H, F317L
- Carbon Steel: ASTM A105, SF440A & A181, A350 LF2
- Alloy Steel: ASTM A182 F11, F22

PRESSURE RATINGS:

2000, 3000, 6000 & 9000 lbs

APPROVAL CERTIFICATES:

ISO-9001 Quality Assurance, L/R, C/R, N/K & ABS register of shipping, PED (CE)



Manufacturer & Exporter

BOTH-WELL STEEL FITTINGS CO., LTD.

No. 303, Jen-Hsin Rd., Jen-Wu Hsiang, Kaohsiung Hsien, Taiwan (814)
Tel: +886 7 3711536, 3710497, 3720260 Fax: +886 7 3713864, 3713882
E-mail: box@mail.bothwell.com.tw http://www.bothwell.com.tw
E-mail: export@mail.bothwell.com.tw



Tube and wire 2010 – together in Düsseldorf for the twelfth time

The dates for Tube 2010 and wire 2010 have been confirmed: the two international trade fairs will show the best their respective industries have to offer from 12-16 April 2010, and will again be held in the halls of the Düsseldorf Exhibition Centre. However, unlike the recent 2008 events, the two 2010 trade fairs will not be held in conjunction with METAV.

Tube 2010 will showcase tube and pipe production and processing machines, raw materials and tubes produced from various materials. For the second time, innovations from the areas of

pipelines and OCTG (oil country tubular goods) technology will be introduced. After the premiere in 2008, 8% of the visitors surveyed reported that they were interested in these innovative technologies, especially in the areas of pipeline construction (49%), materials (48%) and machines and systems (25%). 90% of visitors assessed the new exhibition area, Pipelines and OCTG Technology, as good or very good.

The figures relating to the latest Tube event illustrate the market's dynamic development. All in all, Tube 2008 attracted 25% more international visitors

and 11% more German visitors. On the exhibitor side, a growth rate of 32% on the international front and 8% on the domestic front was established, and the display area was enlarged by one third.

The accompanying show for the wire and cable industries, wire 2008, achieved its highest-ever level of international participation, with 59% of visitors coming from abroad. The product range at wire 2010 will focus again on current technologies for wire, cable and fibre optics, and the areas of spring manufacturing and fasteners.

Messe Düsseldorf GmbH – Germany
infoservice@messe-duesseldorf.de
www.messe-duesseldorf.de

Trends in Surface Technology symposium

TST'08 – Trends in Surface Technology – symposium took place on 26 June at the Politecnico di Milano.

Focusing on innovative research in the surface treatment and coating industry, the main goal of the symposium was analysis of the international scenario and appreciation of scientific research in the treatment sector. Members of the academic and industrial research worlds presented a technical programme over two sessions – 'Products and Processes' and 'Plants and Control'.

The event was sponsored by Poliefun, a university guidance body technically guided by the Politecnico di Milano, a well-known institution within the companies in the surface treatment industry. One Poliefun's main objectives is to propose a solution for development needs in the productive world, by increasing awareness in the surface treatment industry, and by encouraging partnerships between the industry and the university to achieve innovation and scientific developments.

AIDIC – Italy
tst08@aidic.it
www.aidic.it

Anima Poliefun – Italy
poliefun@anima.it
www.anima-it.com

International Tube Association endorsement for TPI



International Tube Association

The International Tube Association (ITA) celebrates its 30th anniversary in 2009 as the world's largest membership association of tube and pipe engineers and professionals. Apart from organising more than 40 technical conferences since its foundation and being at the forefront in the promotion of technical exchange and education in the industry, the ITA supports its 800 members worldwide with a range of services and benefits.

The ITA is now improving these benefits by offering new and existing members a choice of free subscription to the most important international trade magazines for the industry. One of the most attractive benefits is the annual subscription to *Tube & Pipe Technology* magazine (TPT).

Now, all members have a choice of either TPT or the new magazine *Tube Products INTERNATIONAL* (TPI), which the ITA endorses as essential reading for members interested in tube and pipe products, materials and ancillaries, particularly if they are buyers, specifiers, stockists or end-users.

When applying for membership, new members are asked to specify which magazine they wish to receive. Existing members who wish to take TPI instead of TPT should contact the ITA office. Information about the ITA and regularly updated news about its activities are posted on the association's website.



International Tube Association – UK
info@itatube.org
www.itatube.org

Coating of Repsol Cartagena-Puertollano pipeline

Socotherm España SA, a 100% subsidiary of Socotherm, has won a contract for the coating of the Repsol Cartagena-Puertollano pipeline, the most important pipeline planned in the Iberian Peninsula in recent years. The contract, worth over €4m and awarded by Repsol, relates to a 3-layer polyolefin external anticorrosion coating (Plastykote®) of approximately 365km of 14" pipes that will transport oil from the Repsol refinery in Cartagena to the petrochemical facility of Puertollano. The pipes are manufactured by the Welspun Group, India.

The project is part of the Repsol investment plan (over €3.2b) to double the production capacity of the existing refinery at Cartagena, which is expected to achieve 220,000 b/d in 2011. Coating works will start in Q3 2008 and will be performed at Socotherm España facilities, located in an area of 30 hectares in Hellin, Castilla-La Mancha, in the south of Spain. The site is connected by both railway and road to the ports of Cartagena and Alicante.

Socotherm España has also begun working in cooperation with the Borusan Group, a major European manufacturer of spirally welded pipe. Borusan Group has incorporated a new company, Borusan Mannesmann España SA, which has started work establishing a pipe mill in Hellin, adjacent to Socotherm España's pipe coating facilities. *"The Cartagena-Puertollano contract award confirms once again the value of our investment in Spain,"* commented Zeno Soave, chairman of Socotherm España SA. *"Cooperation with Borusan Mannesmann is an important step for our growth in the Spanish Market. It will allow both us and Borusan Mannesmann to be unique in offering the complete package, pipe plus coating, in an area of about 500km, where the most important European waterworks are planned."*

Socotherm SpA – Italy
socotherm.corp@socotherm.com • www.socotherm.com

Socotherm España SA – Spain
socotherm.espana@socotherm.com • www.socotherm.com

Boru 2008 report

The 4th International Tube, Pipe, Fittings & Machinery Fair opened its doors to visitors from 28 February to 2 March, at the Istanbul Expo Center, Turkey. 178 exhibitors from 23 countries occupied 11,300m² of exhibition space, and the show was attended by 21,198 visitors from 31 countries – a large increase since the first Boru exhibition in 2005.

Turkey has been developing into an important player in the worldwide tube and pipe industry over the last five years. The country's geographical position, with a foot in both Europe and Asia and its proximity to the Middle East, Gulf states and CIS markets, means that the Turkish tube and pipe industry is well-placed to take advantage of the opportunities in both the mature markets of the west and the rapidly developing markets of the east.

Recent data from industry research specialists indicates that Turkish tube and pipe exports and imports increased significantly in 2007, particularly in the energy sector.

Ihlas Fuarçilik – Turkey
info@ihlasfuar.com • www.ihlasfuar.com

Central Asia exhibition

Central Asia TUBE&PIPE will be held in Almaty, Kazakhstan, 18-21 November 2008, at the Atakent Exhibition Center. The show will feature 225 exhibitors from 24 countries, including Italy, Germany, Turkey, Russia, Taiwan, Korea, Kazakhstan and India.

Exhibition themes will include ferrous and non-ferrous tube/pipe products and suppliers; plastic and composite tube and pipe products; all types of tube; pipe fittings; mineral-based tube and pipe products; raw materials for tube and pipe making; plastic and composite products; product and component suppliers; production and manufacturing equipment; processing and finishing machinery and plant; dies, tools and accessories; lubricants; services for the tube and pipe industries; profile materials; process technology tools and auxiliaries; used machinery; measuring and control technology; and test engineering.

Central Asia International Exhibitions – Kazakhstan
info@expocentralasia.com
www.expocentralasia.com

Swagelok Company acquires Coreflex LLC

Swagelok Company has announced that it has completed the acquisition of the assets of Coreflex LLC. Terms of the agreement were not disclosed.

Located in Maryland, USA, Coreflex is a manufacturer of high-quality hose products used mostly in semiconductor, biopharmaceutical, and other demanding applications. The Coreflex product line broadens the Swagelok Company's portfolio.

"We are excited about this acquisition," commented Arthur F Anton, Swagelok president and chief executive officer, *"because these innovative hose products, combined with our network of authorised Swagelok sales and service centres, will help us provide better solutions to our customers worldwide."*

Swagelok Company – USA
www.swagelok.com

Swagelok Europe – Switzerland
www.swagelok.com

Launch of plastic pipes conference

Plastics Pipes XIV Conference will take place in Budapest, 22-24 September 2008.

The conference will build upon the success of previous conferences, including Plastics Pipes XIII, which attracted over 450 delegates to Washington DC, USA, in October 2006. The event has become fully international, with delegates from over 35 countries, including over 50% from outside Europe.

The conference will provide the opportunity for companies to present information and ideas on plastic pipe products to end-users, designers, engineers, manufacturers and contractors.

This will be the third biennial conference sponsored by the newly formed Plastic Pipes Conference Association (PPCA), which is supported by both

the European and the US plastic pipes industries.

The PPCA is dedicated to providing a platform for the distribution and discussion of technical, scientific and market information to support the worldwide use of plastic pipeline systems.

The main programme will feature more than 100 presentations covering technical and marketing issues relating to the design and development, testing, installation and operation of plastic piping systems.

Papers will offer solutions to technical and engineering issues using plastic piping systems, and also identify market and business opportunities for further growth in the use of plastic pipes.

A technical exhibition will accompany the conference, which will feature

important aspects of the plastic pipes business and show some of the new developments in product design, manufacture, maintenance, evaluation and testing procedures.

Companies who are interested in exhibiting at the conference should contact Joel Fumire at Solvay (joel.fumire@solvay.com).

The registration fee for participants includes: participation in the scientific programme; one copy of the final programme; participation in the welcome reception; coffee-breaks during the conference; lunches (two days); attendance at the gala dinner; congress bag.

Solvay SA – Belgium
www.solvaypvc.com

Conference information and registration:
info@ppxiv.com
www.ppxiv.com

Plastic pipe fabrication specialist launches new website

Plasflow, UK, is a specialist supplier of polyethylene pipe systems, distributing a comprehensive range of pipework, fittings and fabrications. The company has launched its new website at www.plasflow.com. The site, which has many new features, has been designed to provide comprehensive yet easy to find information on the company's products and services.



▲ The homepage of Plasflow's new website

Commenting on the new website, Diane Smith, sales and marketing coordinator, said, "Our aim with the new website is to offer existing and new customers clear and understandable information to help them identify the correct product solution. The new website not only gives us a more modern and professional online presence, it has also made it possible for us to provide a vastly expanded service to our users."

Plasflow's multi-resource site includes literature and PDF drawing downloads, detailed product information and a comprehensive fabrication portfolio which shows a range of product applications. The site also features case study and news sections to inform customers of the latest developments.

The company has butt-fusion capabilities of up to 1,200mm diameter, and employs a fully trained extrusion welding team for all types of plastic fabrication. Plasflow's comprehensive pipe stocks and professional manufacturing facilities allow most orders to be supplied directly from stock on very short lead times. All fabrications and fittings are carried out in an ISO 9001:2000 accredited environment.

Plasflow Limited – UK
info@plasflow.co.uk
www.plasflow.com



INNOVATIONS FOR PIPES

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EXTRUSION** 

Pipe Symposium Vienna 19th and 25th September 2008

- Rapidex high speed extruder at > 1,000 kg/h with 50 % reduced cooling length
- 2-layer PE 100 pipe
Fast in-line dimension change within range 63 – 160 mm
- Alu-PEX composite pipe with TIG butt welding at 40 m/min
- 63 mm PEX-a pipe with IR inline crosslinking at output of 120 kg/h
- Alu-PE-RT composite pipe, with overlapped ultrasonic welding, at 25 m/min
- Drip irrigation twin tape made of PP on compact line with automated coiling at 40 m/min

► LEADING INNOVATIONS

According to our motto "**LEADING INNOVATIONS**" we would, together with our partners in the areas of raw materials, additives and downstream equipment, like to cordially invite you to our Pipe Symposium 2008 in Vienna to hear about the newest developments in the field of pipe extrusion. We have planned two alternative dates with the same programme (lectures in English and a demonstration at Cincinnati's headquarter):

19th and 25th September 2008

For registration and more information on the programme, hotel booking and further arrangements, please go to our website:



<http://www.cet-austria.com/pipe-symposium.html>

products & developments

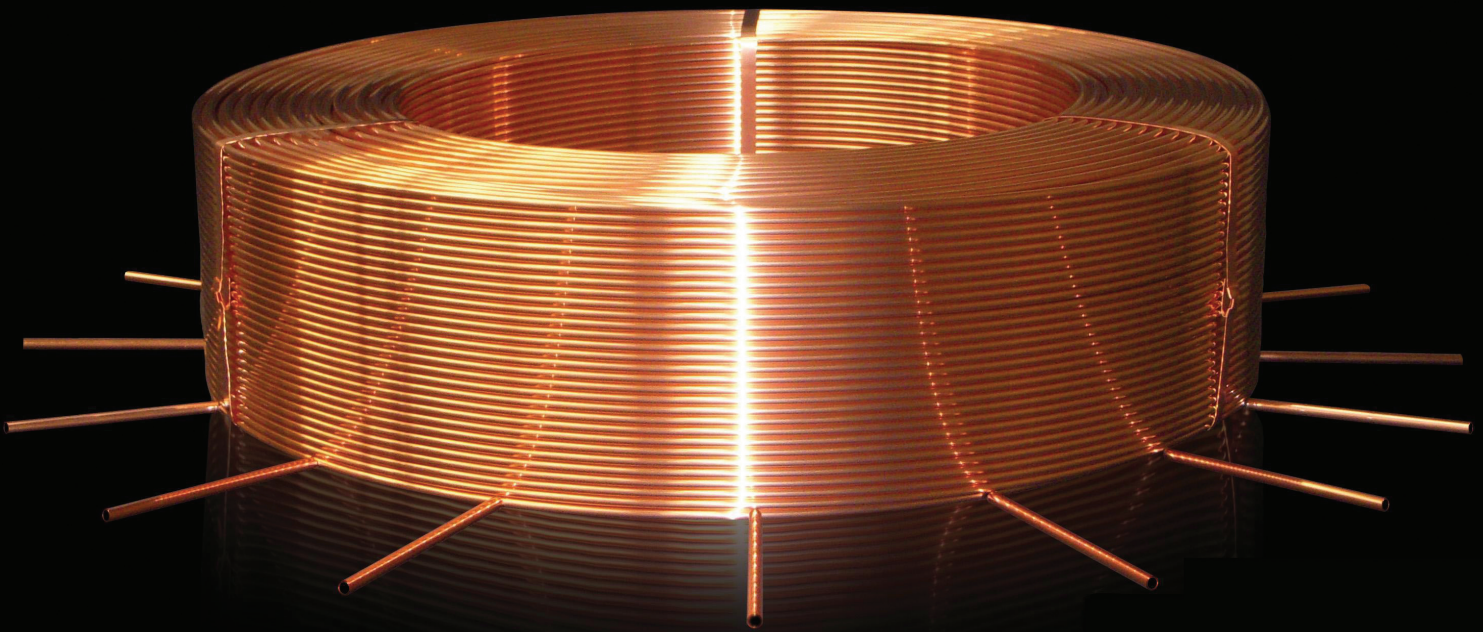


Photo – Feinrohren SpA
see page 20

Reservoir pipe approved for use in public water supplies

Saint-Gobain Pipelines, a supplier of ductile iron pipes and fittings, is now able to offer PAM reservoir pipe, making it the only supplier of coated pipes suitable for total immersion in potable water.

PAM reservoir pipe is a fabricated pipe that can be used in reservoirs and tanks where both the internal lining and external coating come into contact with potable water. The pipe has approval under Regulation 31 (4) (a) for use in public water supplies – important for any product in contact with drinking water.

The Saint-Gobain Pipelines System XL pipe, with a factory applied external coating of blue Copon Hycote 162PWX, fully complies with BS EN 545 and has been approved by the Secretary of State as suitable for total immersion in water.

Trevor Padley, the company's technical manager commented, *"Using Saint-Gobain Pipelines' System XL with external epoxy coating allows customers to use ductile iron pipe with the knowledge that they are installing a robust, reliable pipeline with unrivalled longevity, while fully complying with the regulations and standards in place to ensure the drinking water is safe."*

Available from DN 80 to DN 800, the PAM reservoir pipe is complemented by a full range of Saint-Gobain PAM natural fittings, which are also suitable for immersion in potable water. Jointing details and methods are the same as the standard range of Saint-Gobain fabricated pipes, and can be found on the company's website.

Saint-Gobain Pipelines – UK
sales.uk.pipelines@saint-gobain.com
www.saint-gobain-pipelines.co.uk

Copper and copper alloy tubes

Aishloni Copper Alloys Pvt Ltd is a manufacturer of copper and copper alloy tubes and products.

The company's products, which are manufactured to ASTM, BS and JIS standards, include DHP, ETP grade copper tubes/sections from ¾" to 6" OD; electrolytic grade copper flats/bus bar from 40 to 250mm width; and 63/37 and 70/30 brass tubes, from ¾" to 5" OD.

The company is expanding its capacity and will be dedicating a new project for exports of cupronickel tubes, admiralty brass tubes and aluminium brass tubes. These products are mainly used for condenser, defence and marine applications.

Aishloni Copper Alloys Pvt Ltd – India
aishloni@aishloni.com
www.aishloni.com

Steel tubes from Italy

Acciaitubi Spa, Italy, is a family-run business founded in 1961.

The company aims to meet customers' requirements by combining steel knowledge, by-products processing and quality research, with production flexibility and the ability to adapt to the market.

The company produces welded steel tubes for specific applications, including:

- black galvanised tubes, according to EN 10219 standards, for structural applications, from ½" to 4" diameter
- welded steel tubes from 18 to 60mm diameter for automotive/furniture applications
- black galvanised tubes, painted according to EN 10255 L1 LII M standards, from 1" to 6" diameter, for hydrothermosanitary applications
- galvanised tubes according to Uni 7683 Ad Pe standards, from ½" to 4", for electrical applications (conduit)
- tubes for gas-water pipes, coated outside with bitumen and inside with bitumen primer (for water), according to EN 10208-1 EN 10244 standards
- tubes for boilers/water pipes, black and painted on demand for boilers according to EN 10217 standards, from 1½" to 8" diameter

Acciaitubi's welded steel tubes for gas-water connections are available outside coated with melted/extruded polyethylene and inside galvanised (for water) according to EN 10255 standards, or outside coated with bitumen and inside with bitumen primer (for water) according to EN 10255 standards. The diameter range for both types of tube is ½" to 4".

The company also produces seamless steel tubes for hydrothermosanitary applications.

The tubes are black, galvanised, and painted according to EN 10255M, from ½" to 4" diameter.

Acciaitubi SpA – Italy
info@acciaitubi.it
www.acciaitubi.it

Spray mark systems for precise dot and line marking

REA Elektronik, Germany, manufactures non-contact coding and marking equipment for industrial applications.

The company's versatile printers can be used for printing on many products and surfaces, and have proven to be reliable in the toughest industries, such as steel.

The company will be presenting its coding and marking systems at the EuroBLECH show in Hanover, including the REA-JET ST spray technology marking system, which is designed to apply all types of lacquer, inks, adhesives, lubricating greases, resins and mould release agents.

REA states that its customers have very special requirements in terms of short drying time, as well as clear visibility and legibility of the actual mark on oily, greasy, damp, absorbent and hot or dirty surface areas.

Applications for the REA-JET ST spray mark system include the marking of accepted or rejected production parts after quality inspection; marking of cutting, bending and folding-edges; application of contrast mirrors or dot marking of electrical boards or shock absorber springs. The automatic REA-JET spray mark systems are easy to use and have low maintenance costs, and provide repeatability of a high quality mark in every mounting direction.

The compact design allows for trouble-free integration into an existing production environment. The size and saturation of the mark can be adapted to the user's specifications by use of a simple adjustment procedure, and several spray mark heads can be combined to form a spray mark block.

REA Elektronik GmbH – Germany
info@rea.de • www.rea-jet.de



▲ The REA-JET-ST spray marking system

First environmentally friendly pipe coating line in Ukraine

As part of its ongoing strategic investment programme, tubular wheel company Interpipe has launched a project to build a pipe coating line based at Interpipe NTRP.

The planned production capacity of the line is 250,000 tons of pipes per year, and it will be the first of its size in Ukraine.

The process of ultraviolet polymerisation will be used to coat the pipes, and will take less than two seconds to dry. The new coating will protect the pipes from corrosion for a long-term period – a key factor when the product is being kept

and transported. The new coating is also environmentally friendly, as it contains no harmful substances. Aleksey Slyusarev, Interpipe director of production and investments, commented, "This new equipment brings together the best combination of ecological sustainability and functionality. On the one hand it is environmentally safe for our workers and on the other, it is a great opportunity to coat different pipe types, and improve the commodity properties and performance of our products."

Interpipe – Ukraine
officechudnovskydp@interpipe.biz
www.interpipe.biz

Manual weld inspection solution

Olympus NDT, USA, provides a range of non-destructive testing solutions featuring ultrasonic testing, eddy current, and related non-destructive testing technologies.

The company has introduced a new manual weld inspection solution that includes conventional ultrasound and phased array ultrasound. This integrated weld inspection solution includes new software for the OmniScan flaw detector and a new line of phased array probes

– the WPS series. The software and new probes have been developed for weld inspectors who wish to integrate phased array technology in their NDT inspections.

The new OmniScan 2.1 software has a simplified phased array interface and includes an intuitive RayTracing feature that provides a clear visual display of the phased array beams in the weld area, and a weld overlay feature to simplify data interpretation.

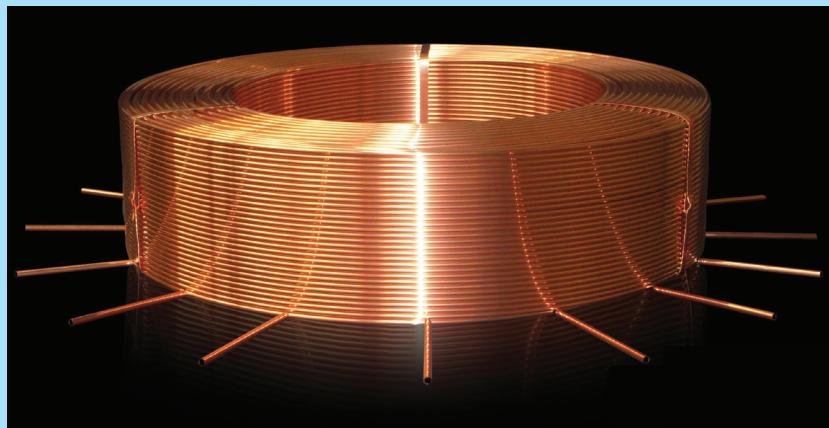
The software also includes conventional UT sizing curves (DAC/TCG, ASME, JIS and DGS), and AWS and API code wizards. Olympus has also introduced new WPS phased array weld inspection probes, consisting of the A10, A11, and A12 series.

Their ergonomically designed probe housings and wedges have a small footprint to allow inspections close to the weld crown. The DGS phased array probe fully meets DGS requirements, and performs an inspection sweep from 45° to 70° using one integrated probe/wedge design. The AWS phased array probe creates a nominal 60° shear wave in steel and covers the inspection angles of 45°, 60° and 70° as required by AWS regulations.

Olympus NDT – USA
info@olympusndt.com
www.olympusndt.com

Copper tube and capillaries

Feinrohren, Italy, is a copper tube and capillary tube manufacturer. The company was founded in 1959, when Mr Faustino Pasotti established a small department for the production of copper capillaries for refrigerators.



▲ Feinrohren manufactures copper tube and capillary tube

In 1990, Feinrohren established an ultra modern production plant in the industrial site of Passirano, with the aim of satisfying the demand of copper industrial tube applications requiring outside diameters over 5mm, using the best technologies in copper tube production, and assisted by decades of matured experience in the copper capillary sector.

In 1996, coated copper tube was added to the company's production programme, through the acquisition of Zetaesse, an expert in plastic coated copper tube production, located in Vedelago (Treviso).

By 2004, Feinrohren's range incorporated over 14,000 different products, distributed in more than 60 countries. The company has achieved many quality certifications through constant development and growth.

Feinrohren's copper capillaries and tubes are used in applications in fields including home and industrial refrigeration and air-conditioning, heat exchangers, production of thermostats for heat and cold, production of thermocouples, production of boilers, armoured resistances, fittings for compressors, and high quality sanitary tube.

Feinrohren SpA – Italy
info@feinrohren.it • www.feinrohren.it

Custom tooling

Nap Gladu provides custom tooling and service for the metal, wood and plastic industries. The company claims to have the largest servicing network in North America, consisting of 15 service centres coast-to-coast.

The company's experienced engineering and technical team uses state-of-the-art equipment to produce sophisticated tooling.



▲ A selection of Nap Gladu products

Nap Gladu's broad range of products will assist in all metal cutting applications, including sawing (plate, tubing, extrusions, bars, billets, rails and structural members), milling, turning, drilling, boring, grooving and threading.

Nap Gladu – USA
www.napgladu.com



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Arberger Hafendamm 1, 28309 Bremen, Germany, Tel.: +49 421 4586-0, Fax: +49 421 4586750, E-Mail: tubes+fittings.hb@buhlmann.de

Specialist in short lead times

Greenville Tube Company, USA, offers seamless stainless steel customised tubing with short lead times, frequently as little as a few days. The company is a division of RathGibson, a manufacturer of welded, welded and drawn, and seamless stainless steel, nickel, and titanium tubing.

"The ability to respond to customers' quick delivery requirements has always been the hallmark of the Greenville Tube operation," stated Harley Kaplan, chairman and CEO of RathGibson. *"Our responsiveness is based upon strategic raw material planning coupled*

with flexible production scheduling techniques."

Greenville Tube manufactures stainless steel and nickel alloy tubing that ranges in size from 1/8" to 1 1/2" outer diameter, varying wall thicknesses, and lengths up to 65ft.

In addition to offering standard tubing sizes, the company can manufacture to any customised tubing dimension within this size range. Customised service also extends to order sizes, and the company does not require a minimum or maximum tubing footage per order.

In order to meet prompt delivery requirements, Greenville Tube has in place specific procedures to ensure fast and accurate order processing. From the moment an enquiry is received to the time of order placement, a technically-trained Greenville Tube representative assures that all pertinent information is gathered and transmitted accurately into the production system. Special manufacturing and scheduling techniques are incorporated to decrease production time while assuring quality. A variety of raw materials is kept on-site to expedite the start of tube fabrication.

The company uses a complete line of stainless steel alloys for its seamless tubing, including 301, 310, 316, 317, 321, and 347. In addition, products are offered in nickel alloys, such as 200, 400, 600, and 800. Other alloys, like Duplex 2205 and Super Austenitic 825 are also available.

RathGibson is a manufacturer of highly engineered stainless steel, nickel, and titanium tubing for diverse industries such as chemical, petrochemical, power generation, energy – oil and gas, food, beverage, pharmaceutical, biopharmaceutical, medical, biotechnology, and general commercial.

RathGibson – USA
www.rathgibson.com

Indian tube producer's Tube 2008 success

Prakash Steelage Ltd, India, has two units in India for manufacturing stainless steel pipes and tubes, and has an annual production capacity of 15,000 TPA. The company is headed by Mr Prakash C Kanugo.

The company exhibited at Tube 2008 in Düsseldorf, Germany, and reports that it received positive responses from visitors and other exhibitors. Following its participation in the trade event, the company states that its export business has increased tremendously in a very short period.

Prakash Steelage Ltd – India
skg@prakashsteelage.com
www.prakashsteelage.com

Pipe and flange protection caps and plugs



▲ A selection of protective products from Caplugs

Caplugs LLC, USA, produces protection caps and plugs, designed to protect any product for any application, including the Caplugs and Niagara Plastics range of products, to ISO 9001 and ISO 14001 registered procedures. The European market is served by Caplugs Limited, UK.

The company's caps and plugs are manufactured from low and high density polythene, silicone rubber, paper, or standard and high temperature vinyls, and the range covers both threaded and non-threaded applications.

The pipe and flange industry is an important sector for this range of product, which caters for up to 64" diameter covers in polythene and 24" covers in vinyl.

The product lines, encompassing over 4,500 standard products, are used by many different industries. The caps and plugs are fitted during the production process, and protect the components during shipping, storage, and transportation to their final destination for final assembly, where the cap or plug is removed. This helps against the ingress of dirt, swarf, paints, and foreign bodies. Particular lines have also been developed to provide protection against static electricity.

Most popular sizes are kept in stock, and the company will assist in the selection of an appropriate product and provide samples for inspection and testing.

Caplugs LLC – USA
info@caplugs.com • www.caplugs.com

Caplugs Limited – UK
support@caplugs.co.uk • www.caplugs.co.uk

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XIV

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- review the market situation
- debate the possible impact of the plastics industry over the next years
- hear about the latest developments in the production of pipe systems
- network with world experts in the plastic pipes industry
- meet with all leading plastic pipe suppliers



PLASTICS PIPES XIV

Plastics Pipes XIV

Budapest, Hungary,
22nd-24th September 2008

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visit www.ppXIV.com to register online now.

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Organised by:

New ProFuse PET tool from Uponor



▲ Uponor's PET tools

With increasing numbers of installers in the gas and water industries working with Uponor's ProFuse peelable skin PE 100 pipe, Uponor is now offering a new, entry-priced pipe exposure tool (PET), suitable for all diameters of ProFuse pipe.

The new PET consists of a hardwearing plastic body with a fitted hardened steel blade, ready for use.

By taking advantage of the efficiencies gained from plastic injection moulding, Uponor is now able to offer the PET to installers at prices starting from around £15 per unit.

The PET enables the skin layer on Uponor's ProFuse pipe system to be cut without damaging the inner core pipe. Once cut using the tool, the skin is then peeled away from the pipe, leaving a clean surface for high quality joints and connections.

Uponor's original metal-bodied PET is still available, and is designed to last a lifetime, with replaceable steel blade and optional butt fusion guide.

The two PETs are the only Uponor-recommended tools for removing ProFuse skin in gas and water industry applications, and are safe, quick and easy to use.

Uponor – UK

uponor.sales@uponor.co.uk • www.uponor.co.uk

Welded, seamless and custom machined parts

Shanghai Lee&Yu International Co, Ltd, China, is a manufacturer and supplier of stainless steel tubular products and customised fittings. The company has over 10 years' experience of serving various industries in the European Union, North America and South America.

The company's stainless steel welded tube and pipe is manufactured to standards including A554, A269, A312 and A249 (heat exchange), in steel grades such as TP201, 202, 304, 304L, 316 and 316L. Available finishes include pickling surface, 180 grit, 320 grit, and 400 grit.

Stainless steel seamless pipe and tube is available in steel grades including TP301, 304, 304L, 316, 316L, 316Ti, 321 and 310S, manufactured to standards including A269, A312, A213 (heat exchange), and in finishes including pickling surface, 180 grit, 320 grit, 400 grit, and mirror finish.

The company recommends its small diameter, high precision seamless tube with OD range from 4.79 to 19.05mm and wall thickness range from 0.71 to 1.65mm.

This kind of seamless tube can be manufactured in coil and straight type, with outside polished in 180, 320, 400, 600 grit and mirror surface. The inner surface can also be polished if the tube OD is greater than 10mm, and the size tolerance of the tube can be controlled to ± 0.1 mm. The company accepts third party inspections (TUV, SGS) before shipment.

Shanghai Lee&Yu can also produce a variety of custom machined parts using CNC, cutting, grinding, lathing, milling, bending, and polishing machines. Such parts include precision mechanical components; threading, grooving, swaging, cutting, bending of tubular products; automotive bumpers; and sanitary and non-standard fittings.

Shanghai Lee&Yu International Co Ltd – China

sales@lee-yu.com.cn
www.lee-yu.com.cn

Interpipe NTRP to increase non-destructive testing facilities

As part of its ongoing strategic investment programme, steel pipe producer Interpipe has launched a project aimed at increasing non-destructive testing (NDT) facilities, based in its tube-rolling shop No 5 at the Interpipe NTRP operation in Dnepropetrovsk, Ukraine.

Completion of the project will enable Interpipe NTRP to provide full non-destructive testing of its steel pipe products, thereby improving its offering to customers. The new line includes a rotary ultrasonic testing system, pipe flushing equipment and automated ultrasonic testing of pipe ends.

The US company Magnetic Analysis Corporation (MAC), a leading non-destructive testing supplier, was selected to provide the ultrasonic pipe testing equipment for both the pipe body and pipe diameter. Starmans Electronics from the Czech Republic will provide the testing equipment for the pipe ends.

Commenting on the new facilities, Aleksey Slyusarev, Interpipe's director for production and investments said, "Increase of non-destructive testing facilities is one of Interpipe's strategic goals. Over the last two years we have added NDT facilities at our operations and now have the capability – through ultrasonic, electromagnetic, eddy current and magnetic particle testing – to test seamless and welded pipes at all of our mills."

Interpipe is an export-orientated company, with 71% of its revenues derived from export sales in 2007, supplying products to 76 countries.

The company has a network of sales offices in Ukraine, Russia, Kazakhstan, Europe, USA and the Middle East.

Interpipe – Ukraine

officechudnovskydp@interpipe.biz
www.interpipe.biz

New digital x-ray imaging capabilities

GE Sensing & Inspection Technologies has launched the new DXR 250RT detector, which combines with the proven Vistaplus V imaging software to allow on-line, enhanceable, x-ray imaging of spiral and longitudinal SAW welds.

The DXR 250RT, which was originally developed by GE for the highly demanding medical sector, offers contrast resolution of less than 1%, and a spatial resolution of 200 micron.

As a result, it is suitable for resolving very small indications in high wall thicknesses. It has a total active area of 205x205mm, and is suitable for operation in temperatures ranging from 10 to 35°C.

Image processing and enhancement of detected images is provided by the Vistaplus system, a PC-based, Windows XP Pro-driven system, which is ideally suited for rapid evaluation and assessment of x-ray images. It is of modular design, so that it can be adapted to suit most user requirements, and its user interface is optimised for fast macro development to suit specific automation needs.

In operation, a real-time image of the pipe weld being inspected is displayed on the control desk monitor, while simultaneously an image that can be enhanced is also shown. Enhancement can be carried out using functions such as contrast adjustment, zoom and digital filter to allow calculation of defect area and reference comparison to facilitate sentencing. Digital images can be stored in various conventional formats and, in cases where extensive archiving is required, GE's Rhythm archiving solution can be applied.

GE Sensing & Inspection's products are used in a wide range of industries, including oil and gas, power generation, aerospace, transportation and healthcare.

GE Sensing & Inspection Technologies – USA
www.ge.com

Cylinder tube specialist

Founded in 1990, Wuxi Beilai Steel Tube Co Ltd has an established reputation as a seamless steel tube company. Annual output is 200,000 tons of seamless tube, and the company specialises in producing hot rolled seamless tubes, high-precision cold drawn tubes and cylinder tubes used in hydraulic systems.

The company has a high precision hot rolled seamless steel tube line with an Accu-Roll mill and an advanced

inspection system that ensures high quality. The size range of this line is from 76.3 to 168.3mm OD, and it produces tubes according to API 5CT, API 5L, ASTM and EN standards. The annual production capacity of this line is over 120,000 tons.

Beilai Group – Wuxi Jiangnan High Precision Cold-Drawn Pipe Co Ltd
– China
jn@beilaigroup.com
www.beilaigroup.com

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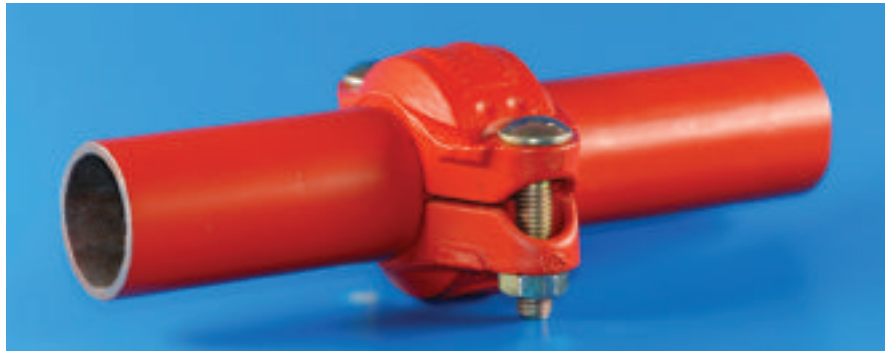
Internally and externally coated steel pipe

In recent years there has been an increase in the use of pre-varnished pipes in civil and industrial installations for water transportation. Major applications include installations with sprinkler nozzles for extinguishing fires; the distribution of drinking water; and the transport of processing and deviation water from industrial purification plants.

In such diverse usage conditions, the necessity for greater protection from both external corrosion (as in the case of exposure in harsh environments) and internal corrosion has become evident. Corrosion can compromise the reliability of fire-extinguishing installations, reduce the lifespan of piping, and contaminate water intended for drinking use.

Jannone Tubi Srl, Italy, has analysed these problems and developed a wide-ranging research project that has led to the creation of a product able to meet the new demands of the market. Duplex Shop Coat®, claimed to be the first steel pipe pre-coated both externally and internally, was developed using the company's experience with the Shop Coat® covered pipe, a natural evolution which meets the demands of greater protection against corrosion, less environmental impact and conformity to contact with drinking water.

Duplex Shop Coat tubes are coated externally with epoxy functional powders with elevated anti-corrosive properties,



while the internal coating is carried out with bi-component epoxy resins, which are non-toxic and without solvents.

The high stability and chemical resistance, and the possibility of obtaining very great thicknesses, make this coating one of the top in its category. The production process adopts solutions capable of respecting the most demanding standards of corporate impact and energy conservation. The ISO 14001 and EMAS 8040 certifications are recognition of the results obtained.

Sophisticated dosage and mixing equipment allows a completely cured resin to be obtained, without an excess of catalyst and base, ensuring non-toxicity and maximum results for chemical stability and resistance to corrosion. The mechanisation of the control system for resin distribution and for the removal of the protective film determines the precise and constant

thickness of the coating along the whole tube with a consequent reduction in the percentage of defects. The reduction in waste produced results in a reduction in costs and greater results at the same average thickness.

The high anti-corrosive results can be explained on several levels: the chemical stability, distinctive of this new resin, and the perfect dosage of the reactive components, ward off the development of osmosis, typically connected to the presence of a catalyst which is not completely cured or of solvent residues trapped inside the coating. Chemical resistance is also improved, protecting the convoy of PH acids often generated by bacteria colonies present in water coming from installations of industrial purification, and which is subsequently re-used for other purposes (anoxic bacterial corrosion).

The high electrical resistance of the new resin used in the internal protection of the Duplex Shop Coat pipes improves the results of insulation from stray currents, often present in civil and industrial water distribution installations (electrical corrosion).

The Duplex Shop Coat pipe is also suitable for use in the transportation of drinking water because of its non-toxic characteristics, in its alteration of its organoleptic qualities, and its resistance to chlorine compounds often deriving from disinfection processes. The pipes are available in a dimensional range from 2" to 8", and on request can be provided with terminal grooves suitable for use with rapid collar joints such as Victaulic. Repair kits for both internal and external coatings can also be supplied.

Jannone Tubi Srl – Italy
info@enricojannone.it
www.enricojannone.it

Steel flanges from China



▲ *Shinsei (Jiangyan) produces flanges from stainless steel and carbon steel*

Shinsei (Jiangyan) is located in the central part of Jiangsu Province, Jiangyan City, China.

With around 200 employees and an annual production capacity of stainless steel and carbon steel flanges of approximately 12,000 tons, the company is capable of producing flanges of different standards, including ASTM, JIS, JPI, DIN, BS and AS, ranging from 3/8" to 32".

The company has an initial investment amount of US\$29.98 million, and occupies a land area of approximately 66,680m².

Shinsei (Jiangyan) Steel Flanges Co Ltd – China
shinsei@ssflanges.com.cn • www.ssflanges.com.cn

New grinding machine installed

Engineering support organisation Corus Northern Engineering Services (CNES), UK, has built and installed a large grinding machine for Wyman-Gordon Ltd, a manufacturer of seamless pipes for the offshore oil, gas and power generation industry based in Livingston, Scotland.

The new grinding machine, which measures 19m in length by 2.5m wide and 4.5m high, weighs approximately 70 tonnes and has a 16m travel for the grinding heads. The machine is part of a significant capital investment expansion project at the company's Livingston site, and will supplement the company's original grinding machine (which is more than 40 years old), to help to reduce lead times for process pipe.



▲ Wyman-Gordon's new grinding machine will help reduce lead times for the company's process pipe

The machine will be used to grind the outside diameter of seamless pipes, which vary in length from 5m to 12m, with diameters from 200mm to 1,200mm (as long as the weight does not exceed 15 tonnes). The grinding machine grinds the outside casing to give a smooth, flat finish to the pipe.

Wyman-Gordon manufactures a range of Class 1 rotating parts for military, civil and industrial gas turbine applications. These products include gas turbine engine shafts, structural and landing gear forgings for military and civil

Flat rolled and spiral welded

US Steel Košice sro, a subsidiary of USS Corporation, is a producer of flat rolled products with an annual production capability of 4.7 million tons. The company produces a wide assortment of hot rolled, cold rolled and coated sheets designated for various industries. In addition to flat rolled products, the company produces spiral welded pipes using structural and micro-alloyed hot rolled sheets.



▲ US Steel Košice produces spiral welded pipes, in addition to flat rolled products

The dimensional range varies in diameters from 406mm to 1,420mm, with wall thickness from 5mm to 14.2mm and lengths from 8 to 18m. The company has been producing spiral welded pipes since 1960. Its pipes have been used in major projects, such as the world largest oil pipeline, 'Druzha', and gas pipeline 'Bratstvo'. Over 23,800km (14,800 miles) of pipes have been produced, representing 3.352 million tons supplied to almost all European countries and former Soviet Union countries.

The company takes advantage of its strategic location in the heart of the continent for exporting its products to many European countries and beyond. The pipe mill produces approximately 90,000 tons per year. These pipes are used mainly for gas distribution lines, crude oil and water distribution lines, for district heating and cooling systems and for civil engineering and structural purposes. All pipes are produced in conformity with the internationally recognised standards API, EN and DIN. The entire production process is continuously monitored, the pipe surface and welds are consistently controlled by series of non-destructive tests, and all results are archived.

US Steel Košice sro – Slovak Republic
schytilova@sk.uss.com • www.usske.sk

aircraft, as well as manifolds, sphere tees, valve bodies and seamless pipes for the offshore oil and gas industries.

The majority of the new machine (in terms of weight) is in the rails and travelling beam, which had to be lifted in one piece, requiring the use of heavy-duty lifting gear. Chris Morris, senior plant engineer at Wyman-Gordon, commented, "CNES handled the job extremely well and there were few problems during the project. After visiting the Scunthorpe workshop, we were very confident that CNES could handle the work. The workshop had a very professional feel to it, was organised and clean, the approach and organisation were excellent and material was flowing through the workshop."

CNES received the contract to build the new machine in May 2007. The machine was built and ready to ship in November, and delivery and installation – also undertaken by CNES – took place in December. The grinding machine has since been placed inside an acoustic

chamber at the plant, and has just completed commissioning.

CNES, part of the Corus Group Plc, uses a 'toolbox' of techniques to help customers of all sizes and from various industry sectors maintain their output, efficiency and profitability, by providing a detailed and accurate assessment of their plant assets. The company uses a range of non-intrusive techniques, including acoustic monitoring, thermographic imaging, vibration monitoring, laser alignment, lubricant technology and remote visual inspection. CNES also offers structural design, project management, training, electrical and process control, machining, fitting and weld reclamation services.

Corus Northern Engineering Services
– UK
cnes@corusgroup.com
www.corusnes.com

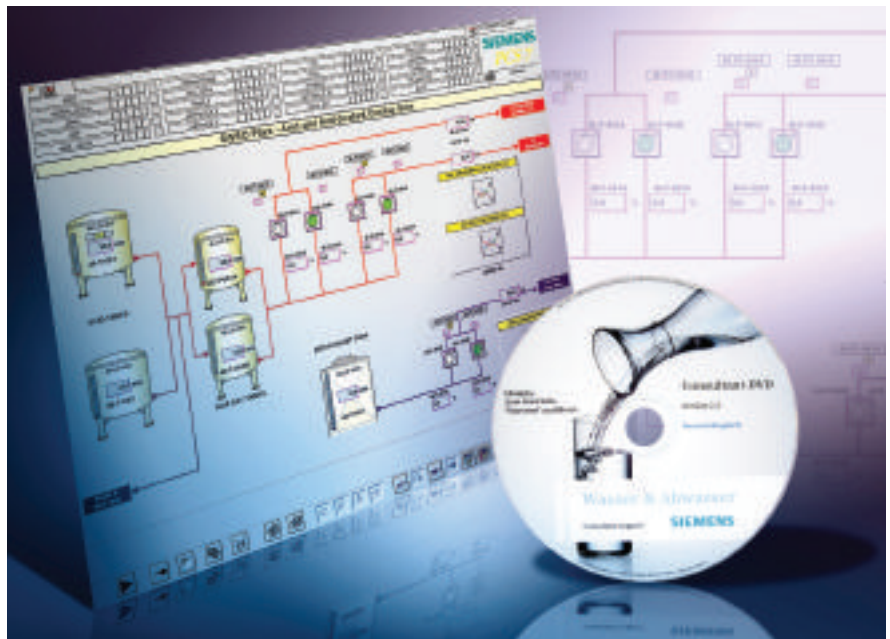
Wyman-Gordon Ltd – UK
www.wyman-gordon.com

Extended range of automation products for water and wastewater installations

A free library for applications in the water and wastewater industry now exists for the Simatic PCS 7 process control system. The Simatic Water Library, from the Siemens Industry Automation Division, supplements the PCS 7 engineering system with over 100 modules for automation and operator control.

The library also contains matching project documents, ranging from specifications to test procedures. Also new is a free Consultant DVD with an efficient toolbox that effectively supports engineering offices, system integrators and plant operators in all phases of planning for water management installations. Specifications of work and services, for example, can be drawn up with little effort.

The Simatic Water Library, with standardised modules and typical applications, facilitates the engineering



▲ The Simatic Water Library supplements the PCS 7 engineering system with over 100 modules for automation and operator control



Tubeproduct.com

Professional e-marketplace
for tube and pipe industry

mail: cntube@hotmail.com

mobile: 0086-13235771371

and commissioning of automation solutions in the water industry. The library contains automation functions and graphic user windows, ie the 'faceplates' required by the water industry.

Examples of additional functions provided by the library are multiple-maintenance concepts with local panels and controllers. This makes it possible to set up hierarchical plant structures efficiently, with a main control centre, subordinate control centres and various stations.

In addition, communication modules for simplified integration of standard Simatic S7 400 controllers are provided, supplemented with product modules for Simocode motor management and the Sinamics G120 and Micromaster MM440 drives.

The Water Library is also suitable for smaller plants where the Simatic WinCC Scada system and S7 300 controllers are used. On the basis of S7 300 controllers, subsystems with local control such as dosing stations, blower stations or cogeneration plants can easily be integrated in the higher-level process control system.

The Consultant DVD contains the information needed for all relevant electrical/electronic product groups in the planning process.

This information is provided in the form of around 1,400 bid-invitation text modules, application manuals, product information documents (such as catalogues, data sheets and brochures), notes on design and configuration tools, including project files.

Also featured are typical applications, along with automation and power distribution configurations.

Products and systems from the areas of drive technologies, electrical installation technology, low-voltage controls and distribution, process instrumentation and analytics, communication, process automation and power supply are also taken into account. In addition, numerous specimen applications for medium-sized and large-scale sewage plants, as well as for medium-sized waterworks, are available. Examples for waterworks, pump stations and reverse-osmosis installations are in preparation.

Siemens AG – Germany
www.siemens.com/water

PP multilayer pipe for well shafts

Italian pipe manufacturer Riccini Srl will shortly begin operating a new extrusion line from KraussMaffei Berstorff to produce multilayer PP well pipe. This type of pipe is used in sinking wells that extract drinking water from groundwater. The section of the pipe that reaches into the groundwater has apertures through which water enters the pipe.

The conventional material for this type of pipe used to be PVC. Riccini is now planning to offer PP well pipe as an alternative solution. The middle layer of the pipe, with CaCO₃ filler, is produced by the main KME 105-36 B/R extruder. The new extruders are KraussMaffei Berstorff's largest machines for polyolefin pipe; they deliver maximum output rates of 760kg/h for PP and 1,100kg/h for HDPE. The longer processing units (L/D ratio 36) increase the specific melt throughput and total output. Increasing the time the melt spends in the extruder results in a stable process and high product quality. It improves the thermal and physical homogeneity of the melt and makes it possible to run the process at relatively low temperatures.

The inner and outer layers of the pipe, made of unfilled PP, are produced on a KME 45-30 B/R coextruder. The compact design of this coextruder facilitates integration in a production line. The layers are joined in a KM3L RKW 75 3-layer pipehead.

KraussMaffei produces machines and systems for plastics and rubber processing, with three divisions – injection-moulding technology, extrusion technology and reaction process machinery. The group offers a wide range of solutions, including specialised and fully integrated turnkey systems. Riccini is a longstanding KraussMaffei Berstorff customer, operating two extrusion lines with a total of four KME 90-36 B/R extruders to manufacture PP well pipe. Riccini's new system is scheduled to go into operation in August.

KraussMaffei – Germany
www.kraussmaffe.com

Riccini Srl – Italy
info@riccini.it
www.riccini.it

'Grand slam' of installations at Twickenham

Iron technology supplier Saint-Gobain Pipelines has scored a grand slam by winning another contract at the redevelopment of Twickenham, the home of Rugby Union in England.

The company's EPAMS cast iron syphonic rainwater system has been installed on the redevelopment of the stadium's South Stand, which has increased stadium capacity from 75,000 to 82,000 and now includes a luxury hotel, conference centre and Rugby shop.

EPAMS was chosen for its high specification and low installation time due to the fewer number of vertical stacks required, which in turn minimises cost.

The range is specifically designed for buildings with large roof areas due to its high fire resistance and lower noise transmission over other materials.

This was the key factor in its specification, given its planned use within the hotel.

The installation was undertaken by Cardiff-based specialists Thorne Rainwater Systems.

Over a nine-month period, as the overall installation progressed, the company worked closely with Saint-Gobain's technical support team, architects and contractors to optimise the system design.

Alongside cast iron pipework which meets the exacting BS EN 877 standard, stainless steel outlets with clamping flanges have been installed within the perimeter gutter.

Saint-Gobain's Ensign range had also been specified and installed for the soils and gravity rainwater systems at the Twickenham redevelopment.

"This was an ideal project for the EPAMS range," commented Terry Thorne, of Thorne Rainwater Systems. *"The flexibility of the range meant that we were easily able to adjust the design as the project progressed without compromising on the integrity of the installation. The EPAMS system is*

strongly supported by a technical team utilising computer software. This ensured that any problems we encountered were redesigned and resolved quickly."

Mike Rawlings, Saint-Gobain Pipelines, added, *"This is an extremely prestigious project, and to have our products specified for two separate aspects of it is a major coup for us. It shows clearly the continuing demand for cast iron drainage systems which offer the best performance in larger buildings, whether industrial, commercial or residential."*

The EPAMS range is a popular choice among stadium designers, having been specified for several of the stadia used for the 2006 FIFA World Cup in Germany.

Saint-Gobain Pipelines – UK
sales.uk.pipelines@saint-gobain.com
www.saint-gobain-pipelines.co.uk

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Wolf Maschinenbau AG
www.wolf-maschinenbau.de
info@wolf-maschinenbau.de

100% automatic coil production and packaging

Pipe Coil Technology Limited has launched 'System Solutions' that use robotics to fully automate the whole coiling and packaging process. Operating at speeds of up to 200m/min, the system requires no manpower resources to operate any part of the system between the extrusion line and coil dispatch point. Robotics perform all tasks including coil handling, labelling and sampling, significantly cutting costs and increasing efficiency.

Designed initially for tube and pipe sizes up to 32mm diameter, this fully integrated system can be built around any automatic coiler. Packaging methods are tailored to the customer's individual requirements and options include strap, film or tape as well as the choice of secondary packaging methods, such as spiral wrapping or box insertion.

To maximise output, the company recommends installing the system alongside its high speed off-line coiling system, which separates coiling from the restrictions of the extrusion line, making it possible to coil at 200m/



▲ Pipe Coil Technology's fully automatic coiler

minute and produce finished pallets every 35 seconds. The systems are specifically designed around the needs of utility and plumbing pipe producers, currently operating with HDPE, PEX, PB and composites, although they can be tailored towards other materials.

Benefits of the system include automatic integration of the whole coiling and packaging process up to the final delivery point; single head and twin head options to suit customer requirements; extensive



▲ Close-up view of a coiler

packaging options and dual packaging system; and a claimed lifetime of at least 10 years at consistent output.

Other products from Pipe Coil Technology include 'Low Ovality Technology', fully automatic film packaging, and large bore coiling technology for pipes up to 250mm diameter.

Pipe Coil Technology Limited – UK
sales@pipecoil.co.uk
www.pipecoil.co.uk

Stainless steel products for the Indian market

M/s Akash Steel Crafts Pvt Ltd is a manufacturer of stainless steel tubes and pipes, based near Mumbai, India. The company has recently introduced automatic tube mills for the manufacturing of tubes from 1/2" to 4" NB, with thickness up to 6mm. It also has fabrication facilities for pipes of any length, from 5" to 20" OD, and up to 10mm thickness.

The company is fully equipped with facilities such as annealing in LPG furnace, pickling and hydro testing, and also has a well-equipped chemical testing laboratory for in-house testing of raw materials and finished goods.

Products are currently supplied to the Indian market, though the company is considering entering into the export of tubes and pipes in the near future.

M/s Akash Steel Crafts Pvt Ltd
 – India
mohancn@yahoo.co.in

Pipe producer from Austria



▲ Pipes from Austria's Bauernfeind

Bauernfeind, Austria, was founded 1990 and manufactures PP-Mega-Pipe and PP-Mega-Drain products.

PP-Mega-Pipe is available with internal diameter 100 to 1,200mm SN8, and PP-Mega-Drain with internal diameter 100 to 400mm SN8 or SN4. The products are suitable for applications such as road and motorway construction, sewage and rainwater, industrial construction, and house and stable construction.

The company produces composite corrugated pipes according to EN 13476 with ring stiffness SN8. PP-Mega-Pipe SN4 and SN8 can be rinsed with 120 bar high pressure, and the company test products for ring stiffness, ring flexibility and impact resistance. The pipes are produced using high quality BOR™ PP.

PP-Mega-Pipe is easier and cheaper to install, because the pipes have a fixed socket, included in the price of the pipe. All sockets are double layer and have a long form, ensuring secure connection.

Bauernfeind GmbH – Austria
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Plastic pipes from Italy



▲ The G Bedin factory supplies plastic pipes and building materials

The G Bedin factory of Bedin Giovanni & C sas started as a handicraft business in 1963.

The factory produces plastic pipes for the building industry, drainage systems and wells, and also resells building materials.

The company focuses its attention on punctual service and quality of its goods.

Products are available in a range of diameters from 40 to 315mm for the building series (ivory) and for the reinforced range (orange) (RAL 2003). 110mm diameter pipe for drainage systems (RAL 8023) features an elastomeric ring.

Bedin Giovanni & C sas – Italy
info@bedingiovanni.com • www.bedingiovanni.com

Multiple uses of stainless steel

Thai-German Products Public Company Limited (TGPRO) is a manufacturer and exporter of stainless steel tube, pipe and sheet. With 35 years of experience, TGPRO claims to be the sole company in Thailand that uses fully automatic lines with laser welding technology.

With ISO 9001:2000 certification, the TGPRO range includes industrial pipe (ASTM A-312) for chemical and petrochemical applications, pulp and paper industry, and condensers in fossil-fired and nuclear power stations (OD up to 20").

The company also supplies boiler, super heater, heat exchanger and condenser tubes (ASTM A-249), based on a unique thin-wall stainless steel tube production technique. General services tube (ASTM A-269) is provided for various industries. Due to its fine internal polishing, TGPRO's sanitary tube (ASTM A-270) has been certified by 3-A Sanitary Standard Inc, USA. Ornamental tube (ASTM A-554) and decorative sheet (ASTM A-240) are used for both interior and exterior decoration.

The company uses various methods and testing equipment to maintain the quality of its products, including spectrometer, hydrostatic and pneumatic pressure test, flattening test, flaring test (60°), flange test (90°) and metallurgical microscope. TGPRO only produces from material grades 304, 304L and 316L.

Thai-German Products Public Company Limited – Thailand
intsale@tgpro.co.th
www.tgpro.co.th

Spirally welded steel pipes from Turkey

Erciyas Celik Boru Sanayi AS was established in 1990 in order to produce spirally welded steel pipes.

The company demonstrated its systematic quality approach by achieving an API 5L monogram user authorisation and APIQR certificate in 1999, contributing petroleum and natural gas pipes to its product line.

As a result, the company has become one of Turkey's leading spirally welded steel pipe producers.

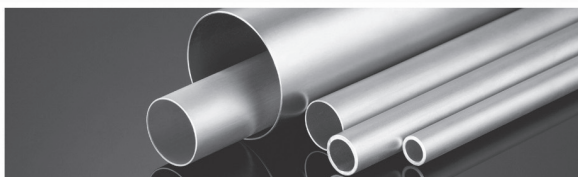
At its factory, which has an annual manufacturing capacity of 300,000 tons, the company produces pipes for drinking water, contaminated water,

piling, natural gas and petroleum, with external diameters from 323.9mm (12") to 3,048mm (120") and from 4 to 25mm wall thickness, within the ST-37-API 5L X-70 material quality intervals.

Erciyas is also able to apply any kind of internal and external isolation in compliance with all of the Turkish and international standards.

The company is still the owner of certificates TUV ISO 14001, TUV OHSAS 18001, TUV ISO 9001:2000, API 5L, APIQR, APIQ1 and CE.

Erciyas Celik Boru Sanayi AS – Turkey
erciyas@erciyas.com.tr
www.erciyas.com.tr



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 E-mail: info@maxvalue.net
<http://www.maxvalue.net>



Quick wrap and patch repair kits

Superior Technologies Europe has launched a range of fast and permanent repair kits for pipes and hoses.

The AquaFix® Quick Wrap product is a high specification kit containing a resin impregnated tape and epoxy putty. It will operate in a temperature range from -68°C to +480°C and withstand pressures up to 20 bar. A repair can be carried out in minutes, and the resin impregnated wrap will totally cure in 30 minutes.

The kits are available in five standard sizes for pipe diameters up to 20", and also in custom sizes for special applications. Quick Wrap can be used for rectifying various problems, including leaks, corrosion prevention, insulation, encapsulation and strengthening of all types of pipes and hoses.

Also available is Quick Patch, which will instantly repair all kinds of pipes and



▲ The new products from Superior Technologies can repair pipes in minutes

hoses. It will work on metals, plastics, composites and concrete.

The patch comes supplied in a pre-measured pouch which also contains the resin glue and catalyst. The mixture can then be blended without opening the container, avoiding any mess or mistakes. After mixing, the pouch can

be opened and the patch applied to the leak. It sets in only 5 minutes, enabling the supply to be switched back on immediately.

Superior Technologies Europe Ltd
– UK

sales@st-europe.co.uk
www.st-europe.co.uk

Automatic high-speed pipe pack palletising

Sica, Italy, has developed a new system in response to the need to extend automation to the cumulative palletising of pipe packs arriving in-line from multipack palletising units that package pallets separated by plastic saddles.



▲ Sica's Multipack 3000

Multipallet handles and palletises the packs produced by the Multipack, gradually forming standard dimension pallet loads of maximum length 3,280mm, on trolleys that are specially designed by Sica.

The system has been developed for installation in lines producing pipes between 32 and 160mm in diameter and from 500 to 3,000mm in length. The system is able to process packs varying in width between a minimum of 290mm and a maximum of 620mm, with a maximum height of 430mm.

Sica SpA – Italy
info@sica-italy.com • www.sica-italy.com

The Multipallet 3000 consists of one or two conveyors for positioning pipe packs at the picking station; double storage for separator boards; a load bearing frame for floor mounting, providing a single portal for the pack picking and handling device; a pack and separator board picking and handling device; and one or more pallet accumulator trolleys.

The Cartesian picking and handling manipulator performs two functions: it picks incoming packs from the positioning conveyors from the Sica Multipack packing machines, rotates them if necessary, and places them on trolleys in predetermined layouts; and it picks separator boards from dedicated magazines and places them between layers to increase the stack's stability.



▲ The Multipallet 3000 can form pallet loads of up to 3,280mm in length

Fittings



Photo – Saint Gobain Pipelines
see page 36

20,000 psi ball and needle instrumentation valves for high-pressure applications

Parker Instrumentation has launched ball and needle instrumentation valves optimised for high-pressure fluid control applications operating at up to 20,000 psi/1379 bar.

Available configured with Parker's high-pressure Phastite® tube connector ends, the valves offer exceptional integrity to meet the higher pressure hydraulic control and other demanding instrumentation applications that are increasingly being faced in the offshore oil and gas sector.

The new ball and needle valves – 20K Hi-Pro Ball Valve and 20K H-Series Needle Valve – are fabricated from 316 stainless steel as standard, and offered in NACE (corrosion) compliant and HCT (heat code traceable) versions. Available with 1/4", 3/8" or 9/16", or 6, 8, 10 and 12mm tube connections, the valves' 6mm bore sizes provide maximum flow rates (Cv) of 0.66 for the needle version, and 1.56 for the ball valve.

The 20K Hi-Pro Ball Valve uses a novel two-piece construction, reducing potential leak paths. It is fully bidirectional and is actuated by a 90° turn for fast on/off action, with stops for positive user feedback.

An integral gland adjuster is secured by means of Parker's proprietary Tru-Loc® mechanism. The valve mechanism works on the floating ball principle, and offers 100% bubble tight operation. PEEK (polyetherketone) seat material is used to allow operation over a wide temperature range from -20°C to +200°C (-4°F to +392°F).

A novel design of seat allows the 20K Hi-Pro Ball Valve to be manufactured from just two body pieces (the main



▲ Parker Instrumentation's new ball and needle instrumentation valves are optimised for high-pressure fluid control applications

body and one insert), rather than a conventional three-piece approach (body and two inserts). This eliminates a potential leak path.

The two-piece design simplifies valve installation, as it minimises the risk of damage from over-tightening when

fitting the tubing ends (two spanners often need to be used on competitive valves to ensure that the inserts do not move).

The 20K H-Series needle valve has a multi-turn action, which provides a fine flow control mechanism. Parker's Tru-Loc mechanism is used to secure an integral gland adjuster. The valve's metal seat allows operation over a wide temperature range from -54°C to +200°C (-65°F to +392°F).

The new valves are available with the new Phastite connector. Compared with cone and thread ends, a valve fitted with Phastite connectors provides a number of benefits.

It reduces assembly time, as a seal is made in seconds by simply pushing the Phastite collar along the tube using a hand-held hydraulic tool.

As the collar moves, it forces profiles on the internal sleeve to bite, providing a high-pressure, leak-tight seal. In contrast, cone and thread fittings require time-consuming precision thread cutting and coning operations to prepare the tube for assembly, as well as subsequent testing. However, conventional cone and thread style fittings are also available if required.

Phastite tube ends also allow material cost and weight savings to be made, as the connections do not require more expensive tubing with extra thickness to accommodate the thread. Phastite is also resistant to vibration, and does not require an additional anti-vibration accessory like cone and thread fittings.

Many applications for the new high-pressure valves can be found on the topsides of today's offshore platforms.

These include hydraulic systems for wellhead control, emergency shut down, chemical injection, pumping packages, gas booster systems, and test equipment.

Parker Instrumentation Products Division – UK
 ipd@parker.com
 www.parker.com

Parker Instrumentation Products Division – USA
 ipdsales@parker.com
 www.parker.com

Steel pipes and fittings from Turkey

Borşen Boru, Turkey, is a distributor of steel pipes, valves and fittings, and a manufacturer of TIG welded stainless steel pipes. The company is the Turkish representative and single distributor of Ham-Let for valves and fittings, as well as of Alfa-Laval for sanitary flow equipment.



▲ Borşen Boru manufactures TIG welded stainless steel pipes

Since January 2006, the company has manufactured TIG welded stainless steel pipes in its own facilities, and uses manufacturing processes such as tricathode TIG welding, outside and inside bead removal, in-line bright annealing, straightening, surface finishing and tube-end deburring.



▲ Borşen is also a distributor of steel pipes, valves and fittings

Borşen Boru's test laboratory is an important part of its quality assurance process.

The company's production line uses two eddy current systems. The first test system is used to detect defects of incomplete welding; the second is used to test whole pipe sections after the annealing process.

The company is focused on continuous quality control and improvement. Some of the standard tests in its new non-destructive and destructive quality control test laboratory include chemical analysis by spectrometer, surface roughness test, hardness test, tensile test, shear strength test, flattening test, flaring test, reverse bending test and hydrostatic test.

Stainless steel tubes produced by Borşen have a producer test and analysis report according to EN 10204 / 3.1.

Steel grades used include 304, 304L, 316L and SAF2205 (1.4462).

The outside diameter range for pipes is 19-76.1mm, with wall thickness from 0.5 to 4mm, tolerance of D4/T4, and length tolerance of 3-12m.

Borşen Boru – Turkey
 borsen@borsenboru.com • www.borsenboru.com

Fittings, pipes and tanks from Italy

N Sguassero SpA, Italy, is a manufacturer of pipes, fittings and tanks, with over 50 years of experience in the field.

The company's products provide solutions to corrosion problems, and are generally used in applications such as chemical plants and industries; desalination plants; power stations (sea water cooling system and FGD systems); sewerage; seawater intakes and discharges; irrigation/water mains; and marine applications (on board commercial vessels).

Pipes and fittings are available with a nominal diameter of 25 to 2,400mm and for different pressure classes (from atmospheric up to 25 bar). Pipes and fittings may be used above ground or underground, and are designed to meet the requirements of various working conditions (underground pipelines are designed to meet ANSI AWWA C 950 standards, M45 Manual or other standards on request).

Tanks and vessels can be supplied with a maximum diameter of 4,500mm, and height or length up to 18m.

Specially designed scrubbers and towers may be supplied for specific requirements. Tanks may be vertical or horizontal (with dome or flat bottoms) and may be used for above or under ground application.

Any combination of manholes, flanges, instrumentation and accessories are available upon request.

By using filament winding technology to ASTM D 2996 standard and by selecting the correct winding angle, the company can provide pipes with different mechanical properties (axial-hoop modulus of elasticity).

For underground applications and low-pressure classes, the company also produces mortar pipes with high stiffness factors and low production costs.

Pipes and fittings can be supplied as loose items, as prefabricated spool pieces or with the following jointing methods: plain end pipes and fittings for butt and strap lamination; bell and spigot, with/without locking device, joints with double O-ring gaskets; sleeve coupling, double O-ring gaskets; tapered/tapered glued joint; flanged joint (any type of drilling is available).

The company's fittings, made by hand lay-up system, are available in any size and arrangement.

The company has obtained the ISO 9001 quality system issued by DNV; specifically for marine applications, its products are approved and certified by important Class Societies such as CCS, RINA LR, ABS, NKK, DNV, BV and Germanischer Lloyd.

For onshore applications, pipes are covered by KIWA-KOMO certificates.

N Sguassero SpA – Italy
info@nsguassero.com
www.nsguassero.com

Push-fit couplings for conservation projects

Saint-Gobain Pipelines has introduced 75mm couplings and a new 6ft pipe to its Timesaver range of above and below ground drainage products, to complete the company's Timesaver Heritage offer.



▲ The Timesaver Heritage range provides pipes and couplings with a traditional appearance

Timesaver was first launched more than 30 years ago for use on above ground soil and ventilating installations. In 1980, a below ground Timesaver system was introduced to complement the soil range.

The new 75mm couplings are available in plain, eared and slip versions to be used with the standard Timesaver range for joining external soil pipes.

Using the Heritage couplings, which are also available in 100mm and 50mm diameters, the Timesaver mechanical system is turned into a traditional socket appearance of yesteryear, as depicted in BS 416 part 1. By using the Timesaver push-fit couplings, waste is minimised and both installation time and costs are reduced, compared to the old traditional socket and spigot system that requires a cold caulking compound.

Supplied in a black water-based coating, the Heritage couplings, which have been accepted by recognised bodies for all grade listed properties, can be easily overpainted for the external soil stacks. Because of the traditional appearance of Timesaver Heritage couplings, they are particularly popular with architects and specifiers working on conservation projects and owners of period property.

Saint-Gobain Pipelines – UK
sales.uk.pipelines@saint-gobain.com
www.saint-gobain-pipelines.co.uk

New butterfly valve extends range

Saint-Gobain Pipelines has extended its range of valves with the launch of the PAM Eurostop butterfly valve in DN150 to DN2000. Designed primarily as an isolation valve, the PAM Eurostop can also, in certain conditions, be used for flow control.

Describing the key benefits of the PAM Eurostop, product manager Richard Morecroft said, "For larger diameter pipelines, butterfly valves offer both cost savings and installation benefits when compared with gate valves. On sizes above DN300 the use of butterfly valves can help reduce the overall project cost. They are also smaller, lighter to handle and easy to install."

Unlike gate valves, butterfly valves operate within the pipe, so no additional cover depth to accommodate the valve is required.

The PAM Eurostop is a double-flanged valve with manual or actuator operated options. Its double eccentric disc, with the centre of rotation of the valve offset in relation to the gasket line and pipeline axis, results in lower torque, leading to less wear and longer life.

The hydrodynamic design of the disc also ensures minimal loss of pressure when the valve is open.

An automatic gasket ensures a high performance, leak free seal while bi-directional sealing means that the valve can be installed in either orientation.

The body and disc of the PAM Eurostop butterfly valves are made from ductile iron with shafts, pins and screws manufactured from high performance stainless steel.

Third party accredited to the stringent EN 1074-2, the Saint-Gobain Pipelines PAM Eurostop range is tested to an endurance level of 2,500 cycles.

Saint-Gobain Pipelines has also launched a set of bound datasheets and a brochure featuring the new valves.

Thirteen datasheets cover a comprehensive range of valves, couplings and flange adaptors, suitable for water and sewer applications.

Self-aligning pipe couplings

Tuf-Lok ring grip pipe couplings are low cost, heavy-duty self-aligning and self-grounded pipe couplings suitable for most applications where pipe ends need to be connected.

The pipe couplings install quickly and easily, reducing installation costs. Reinstallation is also fast and easy, making the couplings suitable for applications where assembly and disassembly are required.

With the Tuf-Lok ring grip pipe couplings, the pipe ends do not require machining or grooving, and do not become marred or damaged when making a connection. Pipeline integrity and reuse of the pipe is not compromised.

The couplings' toughness is important for many applications, including those with high dynamic loads or applications where the pipeline integrity is extremely important. The Tuf-Lok pipe couplings can cope with vibration and excessive pipe movement.



▲ Tuf-Lok self-aligning couplings

A special design feature built into the gasket of the couplings allows them to handle both high pressure and full vacuum pressure conditions. Even high external pressure conditions are accommodated, so the Tuf-Lok pipe couplings are leak proof from the outside as well as the inside. The leak proof connection is maintained even when the pipe couplings are completely submerged under water – a feature not always achievable with other pipe couplings.

A cost saving feature of the Tuf-Lok ring grip pipe couplings is that they can be installed on almost any kind of metal pipe, irrespective of the wall thickness. They can also be used on mild steel, stainless steel, aluminium and most other thick or thin wall pipe.

Tuf-Lok International – USA
info@tuflok.com • www.tuflok.com

Products include gate valves, non-return valves, air valves and fire hydrants.

All valves are supplied in compliance, where applicable, with WRAS requirements and are manufactured in accordance with ISO 9001. Couplings and flange adaptors, also in accordance with ISO 9001, accommodate a wide range of external diameters and pipe materials, from wide tolerance fittings to dedicated products.

The new brochure has been produced in English and Italian to support Saint Gobain Pipelines' sister company in Italy, Saint-Gobain Condotte, which also carries the complete product range.

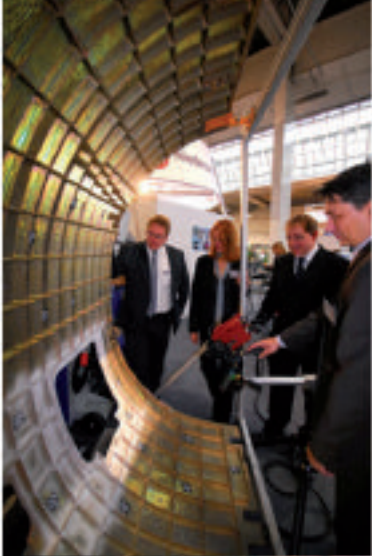
Saint-Gobain Pipelines – UK
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www.saint-gobain-pipelines.co.uk

Chinese stainless steel products

Wenzhou Tiancheng Stainless Steel Manufacturing Co is a manufacturer of stainless steel products, including stainless steel seamless pipe, welded pipe, fittings and valves.

The company's products are widely used in the fields of food processing, medicine, petro-chemical, chemical, machine building, power, automotive industry, ship building, navigation, aviation and aerospace industries.

Wenzhou Tiancheng Stainless Steel Manufacturing Co Ltd – China
info@ecnsteel.com
www.ecnsteel.com



EuroBLECH 2008

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Key technologies for flexible solutions

In the face of global competition, cost pressures and the rapid adaptation of manufacturing processes to variations in product type and changes in production volumes demand maximum flexibility.

EuroBLECH 2008, the global meeting point for the entire sheet metal working industry, provides the technologies, tools and systems needed for responding to the market with flexible and customised solutions.

Over the past forty years, the EuroBLECH exhibition has grown continuously. Today, it is the world's number 1 sheet metal working exhibition.

For leading suppliers of sheet metal machinery, tools and systems, manufacturers of sheet metal parts and finished products, as well as over 64,000 trade visitors from all over the world, it is the ultimate international industry event.



EuroBLECH 2008: Innovative solutions for sheet metal working

The world's leading technology exhibition for sheet metal working will be held this year from 21-25 October 2008 in Hanover, Germany. Three months ahead of the show, 1,471 exhibitors from 37 countries have already booked their stand space. This time, exhibiting companies will present their products and systems for the different technology sectors of sheet metal working in eight exhibition halls, on a net area of 85,000m². This means that EuroBLECH 2008 has grown by some 10,000m² against the previous event in 2006 and will be the biggest show ever.

"In particular, the areas of separation technology, flexible sheet metal working technology, joining technology and tool technology have expanded considerably", said Nicola Hamann, exhibition director, on behalf of the organisers, Mack Brooks Exhibitions. *"But we can also report a growth in the other technology sectors of EuroBLECH. Overall, this reflects the situation of this industry sector which, after years of prosperity, is still on the upswing."*

Of the 1,471 exhibitors who have booked a stand so far, some 45% come from outside Germany. Currently the largest exhibitor countries are Germany, Italy, the Netherlands, Switzerland, Turkey, Spain, France, Austria, Taiwan and the USA. Visitors to EuroBLECH are also traditionally very international. The previous exhibition in 2006 was attended by more than 64,000 visitors; 36% came from outside Germany, from 73 countries.

Specialists in sheet metal working, such as designers, buyers, production specialists and quality managers, will find the complete sheet metal working technology chain at EuroBLECH 2008: sheet metal, semi-finished and finished products, handling, separation, forming/flexible sheet metal working, joining/welding and surface technologies. Tools, process and quality control systems, CAD/CAM applications plus research and development complete the product range. Exhibitors also include suppliers of sheet metal parts as well as subcontractors.

In the face of global competition, variation in product type, changes in production volumes and cost pressure demand flexible, cost-effective solutions and enhanced product quality. With this year's theme *"Quality, Flexibility, Productivity"*, EuroBLECH 2008 will showcase innovative solutions to rapidly adapt fabrication processes to global market requirements.

For visitors to EuroBLECH 2008, a comprehensive visitor leaflet is now available in 12 languages. Comprising a hall plan, the exhibition profile and useful accommodation and travel information, the leaflet can be ordered online free-of-charge at www.euroblech.com. Here visitors will also find information in 12 languages to help them plan their visit to EuroBLECH 2008.

EuroBLECH Organisers:

Mack Brooks Exhibitions Ltd – UK

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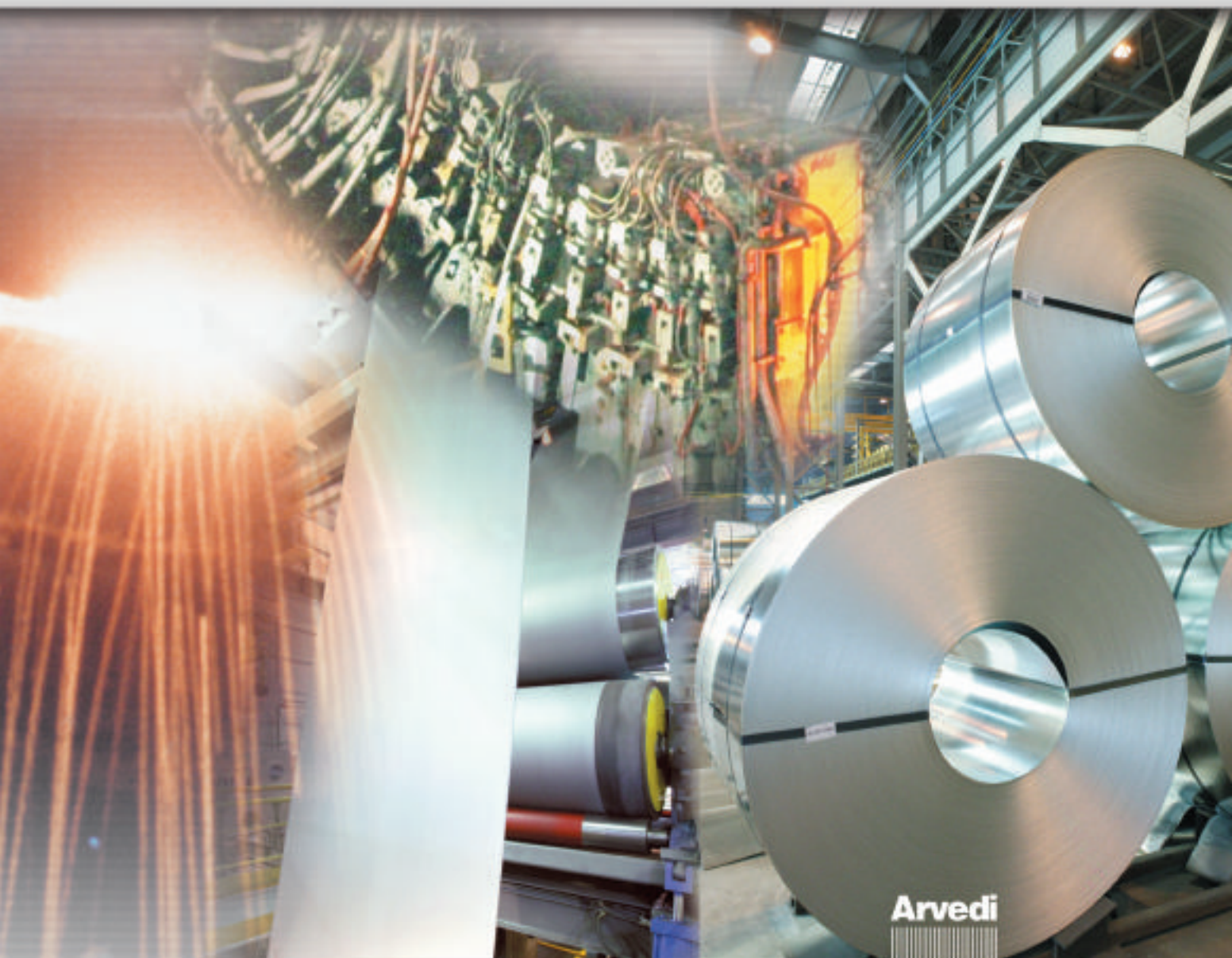
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Raw materials for Tube making

The Materials of Tube Making

In the past decade or so the number of materials and processes available to industry has increased phenomenally. Thousands of new alloys, plastics, coatings, and other nonmetallics are being developed yearly.

This opening paragraph of *The Encyclopedia of Engineering Materials and Processes* is about what might be expected in a standard reference work for design engineers, chemists, metallurgists, and production engineers. What is perhaps remarkable is that it appears in the preface to the 1963 edition – and that it is as pertinent as if it were written the day before yesterday.

Except that the word “composites” lay in the future, the tube and pipe industry of 45 years ago could be where it is today: in the midst of an explosion of new materials; old materials in new combinations; and materials both new and old seeing service in new applications and niches. When, at Tube 2008 – the International Tube and Pipe Trade Fair, held 31 March–4 April in Düsseldorf – Dr Elmar Löckenhoff, managing director of the Plastic Tube Association, glanced backward a decade or so, he identified another factor: substitution.

“Plastic tube systems have continued to enter new areas of application and have supplemented or even almost replaced the range of hitherto traditional materials,” declared Dr Löckenhoff. He said that the products of German manufacturers of plastic tube were very near to displacing metal gas pipes in residential installations: *“The technical and scientific conditions for the use of plastic tube systems in this area have been created. Therefore another market segment can now be conquered.”*

He might have gone on to observe that technical and scientific conditions are always in the process of being created. Through the discovery, development, combination, recombination, and substitution of materials, another market segment is always about to be conquered.

The companies whose products and services are featured in this issue of TPI are poised to take full advantage of this unremitting advance.

Heat and corrosion resistant materials

Hart bv, Netherlands, is a distributor of heat and corrosion resistant materials.

The company supplies nickel, Monel, Incoloy, Hastelloy, and titanium alloys to the chemical, petrochemical and offshore industries.

Complete packages of pipe, flanges, forgings, plate, bar and fittings are supplied to fabrication companies, contractors, engineering companies, and direct to the oil and gas industries.

Hart works together with worldwide partners who specialise in these materials, and supplies either through its extensive stocks of material or, for larger quantities and longer deliveries, through major nickel and titanium manufacturers.

Since the start of 2008, the company has had an extensive stock range of seamless pipe in alloy 200/201, alloy 400, alloy 600, alloy 625 and titanium grade 2.

The company will be exhibiting at the Tube China 2008 show, 23-26 September.

Hart bv – Netherlands
central@hartbv.nl
www.hartbv.nl

The benefits of PVC pipes

SolVin, a leader in the PVC and PVDC markets, was set up in 1999, when Solvay and BASF joined their competencies in the vinyls sector.

In 2002 the company integrated the polyvinyl chloride production activities located in Martorell, Spain, which had previously been owned by Solvay.

These activities comprise a 65% share of the PVC and VCM production joint venture operated with Atofina. SolVin has operations in Belgium, France, Germany, Spain and Italy, and has an annual capacity of 1.3 million tonnes of PVC and 35 kt of PVDC.

Mining rights to chrome ore deposit

The Cronimet Group, Germany, trades, produces and recycles alloying raw materials for the stainless steel industry.

As of 1 April, a consortium of German and South African companies, headed by the majority shareholder Cronimet Mining GmbH, has acquired the mining rights to a substantial chrome ore deposit in South Africa.

The area is located in the Western Limb of the Bushfeld Complex near the town of Northam. The Bushfeld Complex is home to some of the most substantial chrome ore deposits in the world, with an average content of 48% of chromite in its ores. Purchasing price and other contractual information is withheld. The new venture has already been checked by the cartel authorities and has been granted.

The new company, working under the name Cronimet Chrome South Africa (PTY) Ltd (CCSA), will develop a reliable future supply source for the chrome products required in steel production. Chrome is a product necessary for stainless steel production.

It is expected that the geological model of the deposit will become available in the third quarter 2008, and will be the basis for the mine plan. Mining will start as soon as the mine plan has been developed.

The reserves will ensure a continuous supply of ores for the next 30 years. The first investments of the CCSA have been set aside for the machinery and production equipment for mining.

CCSA has reported that the company fully complies with the legal requirements of the BEE laws through the participation of a Broad Based BEE as partner in the company.

The Black Economic Empowerment Program is an important step for the domestic political stability and establishment of long-term economic and social development in South Africa.

The first goal of this legislation is to ensure the active participation of the formerly disadvantaged population in the economy of South Africa.

Through the shareholding of trusts in CCSA, representing the population living near the mining area, it is ensured that they take part in the economic success of the company.

Cronimet Group – Germany
mail@cronimet.de • www.cronimet.com

The company has founded, together with Vulcaflex, Adriplast and Technometal, a joint venture for the recycling of PVC wastes using the Vinyloop-process developed by Solvay.

On SolVin's website, it is possible to download a presentation made by Bruno van der Wielen, president of PVC4Pipes, at the Plastic Pipes 2008 Conference in Moscow.

The presentation, titled 'PVC: a reference and a bright future in piping systems', looks at the five technical advantages

of PVC pipes: stiffness, durability, ease of installation, fire resistance, and environmental benefits.

The presentation can be viewed online at:
www.solvinpvc.com/solvinservices/newshp/0,,63796-2-0,00.htm

SolVin SA – Belgium
www.solvinpvc.com

PVC4Pipes – Belgium
info@pvc4pipes.com
www.pvc4pipes.com

Stainless steel with improved machinability

Ambica Steels, India, is a modern stainless steel mill employing a range of sophisticated steel making technologies.

It produces around 80,000 tons per year in most austenitic, ferritic, martensitic and duplex grades of stainless steel, in a broad range of high-quality finished and semi-finished products.

The company claims to be the second largest stainless steel producer in India, and rather than continuing to increase in size is now aiming to become a more specialised stainless steel producer, with a greater focus on Super-duplex and similar alloys.

Ambica Steels produces bright round bars from 4 to 120mm ($\frac{3}{16}$ " to 4 $\frac{1}{2}$ "); flat bars from 30 to 150mm, up to 25mm thick; and square and hexagon bars from 10 to 50mm ($\frac{3}{8}$ " to 2").

Other products include angles, pump/piston shaft quality bars, hot rolled black bars and billets, continuous cast billets and forging quality ingots.

Asmax® Stainless Type 303, 304, 304L, 316 and 316L are improved machining grades produced by Ambica Steels.

These grades are identical to standard ASTM or DIN grades, except with respect to machinability.

The key to improved machinability lies in the special melting process adopted by Ambica with optimised non-metallic inclusions, optimal chemical composition and an optimised process and production parameters.

This special melting process results in a material providing claimed benefits that include increased productivity – Asmax Stainless machines smoother and with less waste, and can cope with an increased machining rate.

The material also provides better tool life, requiring tools to be changed less frequently, as the tools will experience less wear and tear, and will stay sharp for longer.

Since aggressive machining produces the most favourable results, increased productivity results automatically. Machinability also depends on many variables in the machining process.

Because of this, the different criteria of machinability must be viewed with caution.

Some of the variables that affect the evaluation of machinability are: type of cutting fluid used during the process; type of machining operation being carried out; rigidity of tooling or fixtures; and tool material and geometry.

Asmax Stainless products include smooth turned/ground and polished round bars; cold drawn and polished round bars; and hot rolled round and square bars.

Ambica Steels Limited – India
info@ambicasteels.com
www.ambicasteels.com

Ferrous and non-ferrous materials from India

Satellite Metals & Tubes Ltd, India, is a manufacturer, stockist and supplier of ferrous and non-ferrous materials including stainless steel, carbon steel, alloy steel, sheets and plates, and raw materials in all grades and sizes.

The company also manufactures tubes, pipes (seamless and welded) and pipe fittings such as elbows, tees, reducers, flanges, bends, stud bolts and all types of valve.

The company's range of supply also includes brass, copper aluminium, zinc, lead, monel, nickel, inconel and hastelloy.

Satellite Metals & Tubes imports and keeps stock in bulk quantities.

Materials can be offered for third party inspection before dispatch, if required.

The company supplies materials to government and semi government companies, public sector undertakings, and industries including chemical, engineering, textile, paper, petrochemicals, fertilizer and pharmaceuticals.

Satellite Metals & Tubes Ltd – India
satellitemetals@vsnl.net
www.satellitemetals.com

Getting the most out of stainless steel scrap

Variety Steel, India, is an importer, stockist and supplier of stainless steel pipe and tube in austenitic grades.

The company is looking to provide European, American, Japanese and Korean stainless steel pipe and tube manufacturers with a premium solution for their scrap left from the manufacturing and inspection process.

According to Variety Steel, from buying the raw material to selling the finished product, manufacturers have approximately 2% of scrap in pipe form – around 20 tons/month if production is 1,000 tons/month.

Common reasons for scrap include pipe-ends left from continuous production from coils (welded); short-length; rejection in final dimensional check; rejection in visual inspection; surface scratches; non-conformity with standards; surplus production; and cancellation of orders.

Variety Steel buys such scrap at a premium, and will accept anything in stainless steel pipe and tube in austenitic grades, unless it is in pipe form, and at near to scrap prices.

Variety Steel – India
info@varietysteel.co.in • www.varietysteel.co.in

Stainless steel from India

The main activities of the Gopal Group, India, are focused on stainless steel, alloy steel and mild steel.

The company's plants have 15 tonne capacity induction furnaces, a 20-tonne argon oxygen decarburiser (AOD), and a 9/16 meter continuous caster, providing capacity and flexibility.

Furnaces at Delhi have a 6-ton melting capacity induction, the facility at Chennai has 8-ton melting capacity induction, and the company has a 20-ton heat capacity with AOD at Ahmedabad.

Different types of stainless steel scrap or mild steel scrap, along with other alloying metals and ferro alloys, are melted together in the induction furnace in the required proportion to produce the desired grade of stainless steel and alloy steel. The input materials are sourced locally as well as imported from other countries.

The molten material then is refined in the argon oxygen decarburiser.

By this process, the carbon levels in the material are brought down and the quality is improved.

To achieve the desired chemistry of the finished steel, ferro alloys and other alloying metals are added at this stage.

The refined liquid metal is cast into ingots and billets of different sizes by pouring into moulds.

The cast ingots are then hot rolled or forged in a rolling/forging mill to produce products such as plates, flats, round bars, hexagonal bars, bright bars, square bars, wire rods, angles, channels and forged rounds.

Gopal Group – India
info@gopalgroup.com
www.gopalgroup.com

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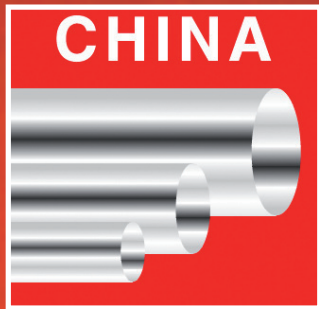
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Tube China 2008

23-26 September 2008
Shanghai, PR China

www.tubechina.com

Tube



The 3rd All China – International Tube & Pipe Industry Trade Fair

Tube China 2006 attracted 308 exhibitors, among which 99 were international exhibitors. The gross exhibition area and net area for Tube China and the concurrent wire China totalled 40,000 square metres and 17,332 square metres respectively. During the four day show, Tube China 2006, together with wire China 2006, attracted 30,131 visitors and 4,193 were from overseas.

Following the success of the show's previous two stagings, and reflecting the strong demand for tube and pipe products and East China's fast-growing industry, Tube China 2008 presents the latest trends in China's tube and pipe industry and continues to establish itself as the best trade and exchange platform in China, and even in Asia. The 2008 event has already completely sold out!

In this section of the magazine we report on a selection of companies that are exhibiting at Tube China 2008 and what they will be displaying at the event.

Baofeng Enterprise

Baofeng Enterprise is a large stainless steel manufacturing group with four interrelated branches. Established in 2002, the company has an annual production capability of 30,000t of austenitic steel and 10,000t of stainless steel pipe. The four branches of the company are Wenzhou Baofeng Special Steel Co Ltd, Baofeng Steel Industrial Co Ltd, Lishui Baofeng Welded Pipe Co Ltd and Wenzhou Baofeng Perforation Co Ltd.

In 2006, the company's total output was valued at over 1,000 million Yuan. The company's products can be found in a host of applications including oil and gas, chemical factory, power plant, food factory, nuclear power station, smelting, aerospace, papermaking, shipbuilding, environmental protection, heat exchanger, water resources, and electricity.



▲ Baofeng is a manufacturer of stainless steel tube from Ø 6-630mm

The group's product range includes bars, square tubes, rectangular tubes, seamless stainless steel tubes (Ø 6-630mm) and welded tubes with a diameter of over 114mm. These products are manufactured in accordance with standards including GB, ASTM, JIS, DIN and EU. Baofeng products have been exported to south Asia, Middle East, USA and EU.

Baofeng Enterprise – China
baofeng@wzbfmg.com
www.wzbfmg.com

H Butting GmbH & Co KG

H Butting GmbH & Co KG produces longitudinally welded stainless steel pipe and fittings (eg elbows and tees), vessels, piping spools, and special piping components. These products are manufactured from a range of materials

including stainless steel (eg 316L and Duplex), titanium alloys and nickel alloys.

The company has a Chinese subsidiary, Butting (Shanghai) Co Ltd, which has recently won an order from TGE Gas Engineering GmbH for a Japanese shipyard. Butting Shanghai received the order to provide and install the pipework for an ethylene-tanker, and the Butting-Chinese team took on the complete prefabrication process.

This is the second order for the young Chinese subsidiary from the sophisticated Japanese end customer. In 2006, Butting China successfully managed to complete the first project to build an LPG tanker for the shipyard.

Butting China carried out these orders with pipes delivered from Butting in Germany, which are manufactured from the material TP 316 or TP 316L in the range from DN 25 to DN 400. To ensure extensive value creation, high-grade semi-products are used in production, with planning and design undertaken on CAD software. These products were shipped from Germany to China and delivered to TGE.

Butting China will carry out the complete prefabrication of all pipework, whereby the pipes and fittings are added.

In order to fulfil the requirements for pipe classes with a pressure test and 100% x-ray test, Butting China had to demonstrate its expertise in welding techniques. The execution of the welding joints was carried out according to welding instructions (WPS) and valid procedural tests (PQR), prepared and supported by Butting, Germany.

Prefabrication and the subsequent acceptance of the prefabricated pipe parts took place according to the

▼ Prefabrication in China to a high quality level



instructions of the local Veritas bureau on the work premises of Butting China. In line with the company aim of optimising product quality, the surfaces were also subjected to a full body pickling of the complete, ready to install components.

In partnership, Butting Knesebeck and Butting China are able to provide the Chinese market with a range of requirements for stainless steel pipe and fittings.

H Butting GmbH & Co KG – Germany
info@butting.de
www.butting.de

Contrôle Mesure Systèmes

Contrôle Mesure Systèmes (CMS) is a manufacturer of eddy current inspection systems, providing a full range of equipment all over the world, particularly for wires and bars, tubes and pipes, plates and sheets, and automotive parts inspection. The company's equipment meets quality standards such as API, ASTM and DIN, and can be used on-line and off-line.

Recent additions to the company's range include Zet@Master, Zet@premium and Zet@Micro, allowing the company to provide equipment for all test tasks, from the simplest to more complicated applications.

Despite being one of the smallest instruments on the market, the Zet@Master offers unique features: multi-channels, multi-frequencies, frequency range from 10Hz to 10MHz, supervision system which allows control of all peripheral devices, sorting management and reporting (including defect location, type, and number of good and bad parts).

Remote control via Internet offers the possibility of supervision or support from anywhere in the world.

With this full range of instruments, users can find solutions for flaw detection, material sorting, hardness or surface treatment inspection. A complete range of accessories is also available.

Contrôle Mesure Systèmes – France
contactcms@cmseddyscan.com
www.cmseddyscan.com

Erne Fittings GmbH

Erne Fittings is a manufacturer and supplier of butt-welding fittings such as elbows, tees and reducers from ½" (20mm) to 42" (1,066.8mm) external diameter, and wall-thicknesses up to 80mm made of carbon steel, alloy steel, stainless steels and exotic materials.

Production takes place in the company's four plants in Austria, Germany and Saudi Arabia, where special demands for short production times are accommodated. The company offers a high degree of product availability and the ability to deliver on urgent demands. The processes revolving around its modern, fully automated logistics centre are designed and controlled to meet customers' specific needs. In addition to products, information such as stock levels, scheduled production dates and prices can be called up at any time.

Erne Fittings is a flexible partner for both stockists and project specialists and offers services on the basis of individual, customised system solutions. The company's business processes and



▲ A selection of Erne products

core skills guarantee maximum value generation for business associates, ensured by the highest flexibility in design, material and availability. Erne products are used worldwide in power stations, oil and gas fields, pipelines, refineries, chemical plants, ships and other areas of industry.

Erne Fittings GmbH – Austria
office@ernefittings.com
www.ernefittings.com

GH Electrotermia SA

GH Group is a supplier of induction heating equipment and installations with

main offices in Spain (GH Electrotermia SA) and subsidiaries near international customers in Germany, France, Mexico, Argentina, Brazil, India, China and Korea.

Since 1961, GH Group has been exclusively dedicated to providing induction heating equipment and solutions to the world market, with more than 4,000 references in 50 countries.



▲ GH Group supplies induction heating equipment

These solutions take account of heat treatment installations, heating for forging, tube welding equipment, continuous tube annealing, cable pre-



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GH Electrotermia SA – Spain
comercial@ghe.es
www.ghe.es

Guangzhou Hongda Steel Co Ltd

Founded in 1988, Guangzhou Hongda Steel Co Ltd is a specialist manufacturer of steel tube and pipe. The company's main product is stainless steel tube, while the company is also able to produce a range of other pipes, particularly seamless carbon steel pipes.

The production range for stainless steel is OD from 4-325mm and wall thickness from 0.5-15mm. The available size for seamless carbon steel is up to 18".

Guangzhou Hongda Steel Co Ltd – China
hongdasteel@21.cn.com
www.hongda-steeltube.com

Guilin Lijia Metals Co Ltd

Guilin Lijia Metals Co Ltd is specialised in the manufacture of a wide variety of copper and copper alloy tubes, rods, bars, shaped tubes and profiles. The company has more than 30 years of experience in copper and copper alloy research and manufacture. The products are widely used in the fields of machinery, electronics, heat exchanger, sanitary, oil exploration, hardware, construction and decoration.

▼ *Copper and copper alloy tubes, from Guilin Lijia*



All production and testing equipment used by Guilin Lijia has been imported from Germany, Japan, UK and Switzerland. The company has been awarded certificates such as ISO9001, ISO14001, OHSAS18001, TÜV and DNV.

Guilin Lijia Metals Co Ltd – China
glnmf@public.gpptt.gx.cn
www.lijiabrasstube.com

Haitima Corp

Founded in 1984, Haitima is a manufacturer of valves and fittings in Taiwan. Products include ball valves, gate valves, globe check valves, and butterfly valves, together with pipe fittings, quick couplings and sanitary fittings, seamless steel pipes, welded pipes, ERW pipes, and other accessories such as expansion joints and flanges.



▲ *Haitima Corp manufactures a range of valves and fittings*

The company operates under a quality assurance system, which has awarded it the ISO 9001, API 607 approval, CRN, DVGW and PED module D1 certificate.

Haitima Corp – Taiwan
haitima@seed.net.tw
www.haitima.com.tw

International Tube Association

The International Tube Association (ITA) is the world's largest association of tube and pipe engineers and its presence will be geared towards offering assistance to tube and pipe professionals.

An emphasis will be placed on the membership benefits available, including support services at the major tube shows worldwide and the educational opportunities provided through technical conferences and seminars.

Existing members can ensure they are taking full advantage of the enhanced range of membership benefits. Non-members will be able to meet ITA staff to learn all about what the association can do for them. They can also collect details of the ITA benefits including reduced delegate fees for ITA conferences, free promotional opportunities in the ITAN newsletter, and free visitor entry and hospitality at selected exhibitions.

Members can also gain access to copies of ITA technical conference papers, and large discounts for company promotion on www.tubefirst.com (the comprehensive on-line material, product and equipment database). In addition, all members receive a free annual subscription to either *Tube & Pipe Technology* or *Tube Products INTERNATIONAL* magazines.

The ITA will be located in hall W4 with an information stand providing support including office facilities, hospitality, meeting area and additional interpreter services for members and companies in the ITA's exhibitor group. Members who are just visiting the exhibition will also be entitled to make full use of all these services.

During the exhibition, Mr Ding of CCRSA, the ITA's representative in China, will be arranging a gathering of Chinese ITA members together with senior board members of the association and important figures from the Chinese metal industry and related organisations.

International Tube Association – UK
info@itatube.org • www.itatube.org

Jiangsu Guoqiang Ind Co Ltd

Jiangsu Guoqiang Ind Co Ltd offers a main product range consisting of ERW pipe, GI pipe, guard rail and HR coil. The company has an annual capacity of 600,000t of zinc-plated products and 1,200 thousand tons of rolling steel strips. With its products supplied to both the domestic and international markets, Jiangsu Guoqiang operates a 1,300m² production area, with more than 2,000 employees.

Jiangsu Guoqiang Ind Co Ltd – China
jsgq@jsgq.cn
www.jsgq.cn

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products, fittings & ancillaries

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Zhejiang Jiuli Stainless Steel Pipe Co Ltd

Zhejiang Jiuli Stainless Steel Pipe Co Ltd is a Chinese manufacturer of stainless steel pipes and tubes. Founded in 1987, the company has a product range including seamless tube from 6-273mm OD and welded from 9.53mm to 2,540mm OD.

The quality management system at Jiuli is approved according to ISO 9001 by IQNet and CQM. In addition, the company has the work approval of GL, DNV, BV, ABS and CCS, and holds PED and AD-W0 certificates from TUV. The company is currently applying for ISO-14000 and LR qualification, which all equates to high product quality.

The company's tube and pipe products have been supplied to an increasing number of international projects for worldwide companies, such as BP, Exxonmobil, and Aker Kvaerner.

In the past two years the company has also been endorsed by renowned boiler



▲ Jiuli manufactures seamless tube from 6-273mm OD and welded from 9.53mm to 2,540mm OD

manufacturers, and currently supplies boiler tubing to them on a regular basis.

Zhejiang Jiuli Stainless Steel Pipe Co Ltd – China
 export@jiuli.com
 www.jiuli.com

T&H Lemont

T&H Lemont, USA, has recently installed a Model WU60-10 high frequency

welded pipe mill for high strength API products. The pipe size range of the WU60 mill is from 2" to 6" OD. The mill is an integral part of a complete welded pipe line to supply API products to North America.

The company is constantly exploring new technologies and innovations to reduce customers' production costs and improve productivity, not only for the welded tube and pipe industries, but also for the roll-forming industry. T&H Lemont has provided technologies for products such as stainless steel hypodermic needles, communication cables, flexible tubular products, hi-strength welded and roll-formed shapes and large diameter API pipe.

In addition to complete production systems, T&H Lemont provides a variety of components and services to the tube, pipe and roll-forming industries. Services include tube and pipe roll design, mill alignment and operational consulting. Components offered by T&H Lemont include welders, cut-offs, entry equipment, accumulators, pre-punch, post-punch, seam orientation

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Maxvalue Industries Co Ltd

Maxvalue Industries specialises in the manufacture and export of fittings, flanges, valves and other pipeline products in China.



▲ A selection of Maxvalue products

The company is BVQI ISO 9001 certified, and its products have gained TV PED certificates.

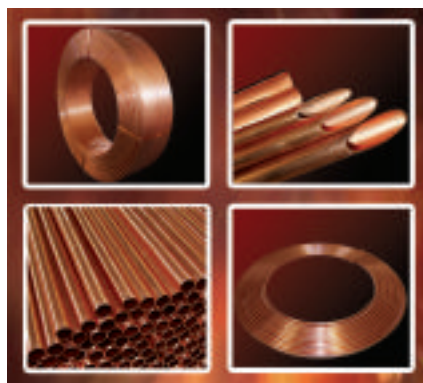
Maxvalue Industries Co Ltd – China
info@maxvalue.net
www.maxvalue.net

QAEM Copper Industries Company

QAEM Copper Industries Company, Iran, is a producer of seamless copper tube, providing a range of products for air conditioning, refrigeration industries and plumbing.

The company's plant located near Esfahan, Iran has installed advanced production and quality control equipment from the likes of Otto Junker and Schumag to produce the best possible products. The application of eddy current systems in production lines and quality control tests such as OE spectrometry, optical microscopy, and mechanical testing in its laboratories help QAEM meet the specific needs

of its customers. The products from this plant are made from DHP and TPC alloys by using high-grade copper cathode with purity of 99.99%, and comply with the ASTM B280, EN1057 and other applicable tubing standards. The quality management system of QAEM is in conformance with ISO 9001-2000 standard.



▲ QAEM produces a range of products from seamless copper tube

QAEM's product quality, product mix, on-time delivery, and customer support have gained it the recognition of the preferred supplier from a broad customer-base in the Middle East countries. QAEM exports its products around the world. Products include LWC, super clean (plain/inner groove); straight length; and pancake rolls.

QAEM Copper Industries Company – Iran
info@qaemcopper.com
www.qaemcopper.com

Quality Stainless Pvt Ltd

Quality Stainless, India, is a manufacturer of welded stainless steel tube and pipe, using its own cold rolled stainless steel coils. The company's two product divisions, tubes/pipes and coils/strips, are ISO 9001:2000 and AD – 2000 W2 certified under Lloyds Register and TUV. The products are manufactured as per DIN, EN, ASTM, JIS, SS and ISI standards.

The company's product range includes sizes from 1/2" OD to 4" OD, and 1/2" NB to 6" NB, thicknesses from 0.5mm to 4mm, and grades including 304/304L, 316/316L/316ti, 321, 439/409, 430, low Ni grades and duplex. Testing facilities include eddy current, hydro testers, UTM, hardness test, inter-granular

corrosion, microstructure and other necessary mechanical tests.

The company has a large customer base in industries such as heat exchangers, pressure vessels, food processing and beverage equipment, the dairy industry, power turbines, chemical and pharmaceutical, automobile, oil and gas, and other general engineering industries.

Quality Stainless Pvt Ltd – India
tapasvi@qualitygroup.in
www.qualitygroup.in

Shanghai Want Industry Co Ltd

Shanghai Want Industry Co Ltd (WTPF) is a private-owned company and export-oriented manufacturer of stainless steel tube, pipe and fittings. With a highly skilled staff, the company supplies to markets including oil and gas, power plant, chemical industry, petrochemicals, food and pharmaceuticals, shipbuilding, pumps, paper making and other engineering construction fields.

The Shanghai Want range consists of high-quality stainless steel butt-weld pipefitting and seamless stainless steel pipe and tube. The company's production capacity is approximately 300t of fittings and 400t of tube and pipe per month.

Shanghai Want Industry Co Ltd – China
jenny@asiapipefitting.com
www.asiapipefitting.com

Sino International Business Co Ltd

Sino International Business Co Ltd is a manufacturer of steel and iron tube products. The company is an advanced partner for steel mills, manufacturers, traders and purchasers, and offers an international trade service to assist in all areas of business.

The company's range includes large hollow sections, hot dipped galvanised pipe, pre-galvanised pipe, mild steel channels, H-beams, steel sheet and plate, and stainless steel pipe. Sino

also provides steel angle, scaffolding pipe and parts, API pipe, OCTG pipe, seamless steel pipe, and pipe fittings/flanges.

Sino International Business Co Ltd
 – China
 sinointl2008@yahoo.cn
 www.sinointlbiz.com

Sitindustrie

Sitindustrie is a supplier of stainless steel and copper alloy tubes, pipes, fittings and complete packages, serving industries including oil and gas, food and dairy, and marine/thermal seawater desalination.

At the start of 2006, the company established Sitindustrie Tubes & Pipes (Foshan) in China – a new manufacturing plant to better serve the Chinese and Far Eastern markets.

In particular, the company has developed a deep technical knowledge of bright annealed copper alloy tubes with a thin, uniform and dull iridescent film



▲ Sitindustrie will exhibit its range of stainless steel and copper alloy tubes

on the inside and outside surface as prescribed by ASTM standards. Such film protects the tubes, thus assuring a long life for products such as heat exchangers.

Sitindustrie can also supply a wide range of mechanical components (cast steel products, industrial valves and gearboxes), and stainless steel structures for the construction industry.

Sitindustrie – Italy
 sitindustrie@sitindustrie.com
 www.sitindustrie.com

Tube & Pipe Technology and Tube Products INTERNATIONAL

Tube & Pipe Technology is the international trade magazine for the tube and pipe industries, published six times a year in the English language. Covering the production, processing and utilisation of tube and pipe, each issue provides coverage of essential industry news, personnel changes and technology and product updates.

Tube Products INTERNATIONAL magazine is published for tube and pipe product end-users, buyers and specifiers of metal, plastic & composite tube and pipe materials, products and fittings. Published every quarter, *Tube Products INTERNATIONAL* reports the latest corporate and economic industry information, and features new technological advances in materials and tube & pipe products and ancillaries available within the tube and pipe industry around the world.



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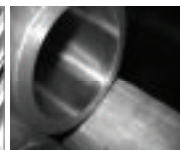
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SS SMLS Tubes EN10216-5, ASTM A269/A213 DIN 17458 JIS 3459.
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Visitors to Tube China 2008 can pick up a free copy of the latest editions of both magazines at the *Tube & Pipe Technology* stand, together with information on subscription, advertising and the new e-zine.

Tube & Pipe Technology Magazine & Tube Products INTERNATIONAL Magazine – UK

intras@intras.co.uk
www.read-tpt.com • www.read-tpi.com

US Steel Košice sro

US Steel Košice sro, a subsidiary of USS Corporation, is one of the largest producers of flat rolled products in central Europe, with an annual production capability 4.7 million tons. The company produces a wide assortment of hot rolled, cold rolled and coated sheets designated for different industries.

In addition to flat rolled products, the company also produces spiral-welded pipes on its advanced pipe mill. The pipes are made from the company's structural and micro-alloyed hot rolled sheets. The dimensional range varies in diameters from 406 to 1,420mm, wall thickness from 5 to 14.2mm and length from 8 to 18m.

The company has been producing spiral-welded pipes since 1960. In the past, the pipes have been used for the construction of major projects including the world's largest oil pipeline 'Druzhba' and gas pipeline 'Bratstvo'. Since then, over 23,800km (14,800 miles) of pipes have been produced, which represents 3.352 million tons supplied to almost all European countries and former Soviet Union countries.

At present, the company takes advantage of its strategic location in the heart of the continent for exporting its products to many European countries and beyond. The pipe mill produces approximately 90 thousand tons per



▲ US Steel Košice manufactures spiral-welded pipes from 406 to 1,420mm

year. The pipes are used mainly for gas distribution lines, crude oil and water distribution lines, for district heating and cooling systems and for civil engineering and structural purposes.

All pipes are produced in conformity with internationally recognised standards API, EN and DIN. The entire production process is continuously monitored; the pipe surface and welds are consistently controlled by a series of non-destructive tests, while all results are archived.

A significant role in the development of new steel grades and technological processes is played by the company's Institute of Research and Development. An experienced team of specialists and state-of-the-art techniques ensure high quality materials and procedures.

US Steel Košice sro – Slovakia
ocelvychodu@sk.uss.com
www.usske.sk

voestalpine Tubulars

voestalpine Tubulars is a joint venture between the Austrian voestalpine group in steel production and the US Grant Prideco group, one of the world's largest manufacturers and suppliers of oilfield drill pipe and other drill stem products.

voestalpine Tubulars produces seamless steel pipes with an outside diameter up to 177.8mm (7"). The products can be manufactured in API or special grades, with special/premium threads upon request. The end users are the oil and gas industry, boiler and equipment fabricators, tunnel construction companies and the automotive industry.

Grant Prideco has recently been acquired by National Oilwell Varco (NOV), a designer, manufacturer and vendor of comprehensive systems and components used in oil and gas drilling

and production. NOV is involved in the provision of oilfield tubular inspection, internal tubular coatings and other services, as well as in providing supply chain integration services to the upstream oil and gas industry.

The voestalpine Tubulars alliance with Grant Prideco/NOV provides its global customers with a broad range of products and services. With offices in Houston, Dubai and Moscow, the company's international sales network provides the essential proximity to customers and ensures comprehensive customer support.

The company is certified according to ISO 9001, 14001 (EMAS location) and API respectively. voestalpine Tubulars is an approved vendor for most international oil and gas companies.

voestalpine Tubulars GmbH & Co KG
– Austria
sales@vatubulars.com
www.vatubulars.com

Weifang Shengjiang

Weifang Shengjiang Economic & Trade Co Ltd, located in the Weifang City Shandong Province, was founded in 2003. The company mainly supplies pipe, fittings, flanges and valves, and other oil and gas fittings.

Materials used include carbon steel, alloy steel, and stainless steel of ISO, ANSI, JIS and DIN standards, according to customers' requirements. The company's products are directly supplied to Europe, America, Southeast Asia, and the Middle East.

Weifang Shengjiang Economic & Trade Co Ltd – China
shengjiangcn@126.com
www.shengjiangcn.com

Yee Young Industrial

Yee Young is an ISO 9001:2000 approved company with over 20 years of experience as a tube and rod manufacturer.

The company offers hydraulic/pneumatic cylinder honed tubes, chromium plated piston rod, linear motion shift and fluid power transmission products.



▲ Yee Young manufactures hydraulic/pneumatic cylinder honed tubes and chromium plated piston rod

The company offers the guarantee that its steel tube, pipe and rod is manufactured and delivered according to the highest quality standards.

Yee Young Industrial Co Ltd – Taiwan
service@yeeyoung.com.tw
www.fluid-power.com.tw

Zhejiang Jiaxing Zhongda Group

Zhejiang Jiaxing Zhongda Group is a specialist in producing stainless steel seamless tube, duplex stainless steel seamless tube and super duplex stainless steel seamless tube.

These products can be used for heat exchanger, boiler, air cooler and other pressure vessels.

The tube is manufactured from steel grades including TP304, TP304L, TP304H, TP310S, TP316, TP316L, TP317L, TP321, TP321H, TP347, TP347H, TP347HFG, UNS S31803, UNS S32205, and UNS S32750.

Current specifications for the tube include ASTM A213, ASME SA213, ASTM A789, ASME SA789, JIS G3463, and EN10216.

Zhejiang Jiaxing Zhongda Group
– China
wgf@zhongdasteel.com
www.zhongdasteel.com

Zhuhai Gulf

Founded in 2006, Zhuhai Gulf Heavy Industry Steel Pipe Co Ltd is a steel pipe manufacturer. The company specialises in the production, processing and sale of pipe, with a main product being spiral submerged arc welded steel pipe. In cooperation with Ningbo Gulf Heavy Industry Co Ltd and Ningbo Sanding Steel Pipe Engineering Co Ltd, the company has successfully completed several major supply projects for steel pipe piles.

Successful projects include the Hangzhou Bay Bridge and Jin Tang Bridge (marine pipe piles), Koolan Island project (steel pipe piles), FMG rail and PKPC Pier (Australia). The company has a manufacturing facility of approximately 10,000m². The Zhuhai pipe diameter range is 400 to 3,050mm, with wall thickness from 5 to 25.4mm and pipe length up to 100m.

Zhuhai Gulf Heavy Industry Steel Pipe Co Ltd – China
xh1983.zwr@163.com
www.gpipe.com



Zibo Wel-Fit Metal Products Co Ltd

Product Range

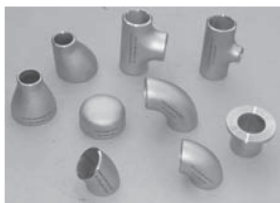
Elbows – LR SR 45 90
Return Bends – LR SR 180
Tees – Straight & Reducing
Reducers – Con & Eccentric
Stub Ends – MSS TYPE-A& B
Stub Ends – ASME Long
End Caps
Sch5S – XXS
1/2" ~60", 3/4"X1/2" ~ 60"X36"

Specifications

ASME B16.9
ASTM A403 304/L 316/L 321 347
ASTM A234 WPB P11 P22 P5 P9
ASTM A420 WPL6
ASTM A815 S32205 S32750
JIS B2311 2312 2313
DIN 2605 2615 2616 2617
EN 10253-1



CRN



Inspections

RT UT MT PT IGC PMI
Hardness, Tensile
Bending, Flattening, Flaring
Impact, Hydrostatic Test
Spectro-analysis

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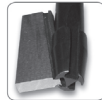
Expanding mandrel provide fast, accurate self-centering alignment with torque-free operation for operator safety



Fast pneumatic clamping system (optional).



Wedge style hardened tool steel mounting jaws for maximum life time and secure positioning.



Big power in small size and light weight (4,8 kg) machine

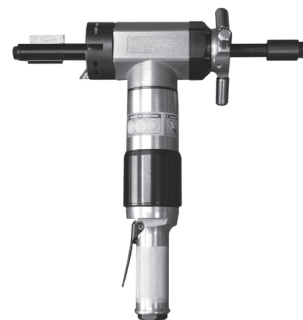


Mandrel shaft seal prevents contaminants from enter in gear and internal parts.



Three optional feed systems: star wheel feed, ratchet feed, lever feed

MiniMill



KRAIS Tube Expanders

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Corrosion resistant pipelines: solutions in the power industry

▲ *Precisely tailored prefabrication: closed circular pipeline in a cooling tower*

The use of fibreglass in the construction of pipelines is increasing, particularly in the power industry, because the material is insensitive to the exposure of raw gas, heat, chemical and physical influences.

Lightweight and favourable handling characteristics allow rapid assembly, resulting in economic savings.

Pipes from Fiberpipe, Germany, a specialist in fibreglass pipelines, are manufactured through a network of worldwide partners. By adhering to ISO dimensions, the pipes are completely compatible with existing systems. Customisation is part of the company's core business.

The following examples illustrate how fibreglass pipelines and devices became established in the power industry.

Temperature resistance with chemical barrier: flue gas preheating in a coal power plant

For the replacement of the gas preheaters of the flue gas desulphurising plant (FGD) in the coal power plant of RWE Power, Germany, Alstom Power Recovery was the awarding authority for Fiberpipe. The coal blocks use hard coal in the world's largest molten ash chamber boiler of this construction type.

Out of procedural view it makes sense to preheat pure gas – ie raw gas after it has been cleaned. Therefore a gas preheater was constructed, feeding the gas streams against each other, where the raw gas cools down and the pure gas warms up. The combustion air from the boiler should run through pipes, resistant to a temperature of 160°C.

The detailed engineering followed within six weeks of the preplanning.

Together with Alstom and the plant operator, Fiberglass defined the job specification as well as the pipe direction. All aspects of the pipe assembly were grouped together in a quality assurance concept followed by an acceptance procedure. The detailed engineering was carried out by Fiberglass, including stress analysis, three dimensional tube

conduct, procurement of the components and turnkey installation of the FRP connecting pipes.

The assembly propositions took into consideration the knowledge of which resins are resistant to high temperatures, pressure, insulation, heat loss, chemical resistance and surface temperature. The fiberglass components came with a 2.5mm thick chemical barrier, ensuring optimum reliability. All components were prefabricated by Fiberglass, and the laborious reconstruction was shortened, resulting in a planned factory downtime of only 48 hours.

Pressure resistant pipe and fast assembling: capacity increase in waste incineration

Enertec, Germany, is a power plant site with waste incineration, biomass generation and long-distance heating supply. Each year the site recycles 240,000t waste, as well as 120,000t biomass generating 110m kWh electricity and 240m kWh long-distance heating.

In line with a capacity increase, the cooling water circuit of the power plant needed to be replaced within six weeks, and the company wanted to introduce FRP pipelines. An external service provider was entrusted with the planning of the capacity increase; because of an existing collaboration with Enertec, Fiberglass was the first point of contact for the pipeline construction. Together with all participants, a detailed test and acceptance procedure was created.



▲ *Lightweight, fast assembly: cooling water pipe diameter 800mm*

▼ *Large span between supports: FRP pipe with diameter 1,400mm*



The specifications resulted in a challenging pressure resistance of 4 bar together with a parallel loading of diameter SN10,000. Fiberpipes fulfilled these requirements with a sanded, cross-wound pipe. A short reconstruction time of only a few days was required. To avoid time-consuming laminated connections, Fiberpipes constructed a pipeline with key lock and double O-ring, absorbing the axial forces on the pipeline. Due to this innovation, Fiberpipes reduced the assembly time and costs by 80%. Accurate planning shortened the assembly time, resulting in a minimal downtime for the factory.



▲ Tailor-made fabrication: winding of an FRP pipe with diameter 1,000mm

According to plan, the reconstruction took place within five days, in October 2007. Preparation, delivery and assembly were carried out as a complete solution offered by Fiberpipes.

'Pipeline-on-demand'

Evonik Steag GmbH operates two coal power stations. The usable current supply is 10.328 Gigawatt hours per year. The installation components are two pulverised coal fired Benson boilers with fluid deashing (each 980t/h), two pulverised coal fired Benson boilers with dried deashing (2.160t/h), as well as two turbo generators.

At irregular intervals, repair materials such as replacement pipes were needed at the power plant. The operating company has entrusted Fiberpipes with a 24-hour service. The pipe company acts as an extended warehouse to the operating

company. Essential to this service is a generously proportioned stock and quick response times.

Instant service in FGD

E.ON-Kraftwerke's power plant at Ingolstadt is operated with heavy fuel oil. The blocks provide a capacity of 386 MW and are mainly used for backing of peak load and medium load.

▼ Spool of a cooling water line: waste incineration in Rotterdam



Short term work is necessary from time to time in the power plant blocks.

Critical for the choice of the appointed service providers was flexibility, and the ability to assemble under the highest safety requirements. If there are unforeseen repairs required in the flue gas desulphurising plant, as a general rule these must be executed immediately, during operation and, if necessary, with protective equipment.

Fiberpipe provides the repair service with a stipulated lead-time of up to 24 hours.



▲ Flexible assembly: FRP flue gas pipeline

The standard pipes of Fiberpipe are designed following ISO dimensions. Advantages include full compatibility of different pipelines and the ability to use standard components and fittings.

Lightweight FRP pipes allow faster assembly and handling and economise on time and investment. Fiberpipe offers a similar service to the large-scale power company Mannheim AG.

▼ Assembly costs minimised: winter pipeline in a cooling tower



Up to 50% reduced assembly times

Hamon group specialises in return cooling tower systems. Hundreds of natural ventilation cooling towers are planned and implemented, with over one hundred forced ventilation cooling towers and numerous projects being added each year.

Fiberpipe has improved the construction and assembly-friendliness of the pipelines used in the Hamon Thermal Germany cooling towers. For example, the winter ring pipeline, used for preheating and frost prevention, is 80% prefabricated by Fiberpipe.

The perfect fitted FRP pipelines allow a reduction in assembly time of up to 50% at this location. The companies work hand in hand for complete pipeline construction, ensuring short delivery times and high operating efficiency.

Fiberpipe GmbH – Germany
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www.fiberpipe.de

Acciaitubi SpA.....	19	Parker Instrumentation Products Division.....	34
AIDIC	14	Pipe Coil Technology Limited.....	30
Aishloni Copper Alloys Pvt Ltd	18	Plasflow Limited	16
M/s Akash Steel Crafts Pvt Ltd	30	Plymouth Tube Company.....	10
Ambica Steels Limited	44	Prakash Steelage Ltd.....	22
Anima Poliefun	14	PVC4Pipes	43
Baofeng Enterprise.....	48	QAEM Copper Industries Company	54
BASF	12	Quality Stainless Pvt Ltd.....	54
Bauernfeind GmbH	30	RathGibson	22
Bedin Giovanni & C sas	32	REA Elektronik GmbH.....	19
Beilai Group – Wuxi Jiangnan High Precision Cold-Drawn Pipe Co Ltd	25	Rehau AG + Co	13
Borşen Boru	35	Riccini Srl	29
H Butting GmbH & Co KG	48	Saint-Gobain Pipelines.....	11, 18, 29, 36, 37
Caplugs Limited	22	Satellite Metals & Tubes Ltd	44
Caplugs LLC.....	22	Shanghai Lee&Yu International Co Ltd.....	24
Central Asia International Exhibitions	15	Shanghai Want Industry Co Ltd.....	54
Contrôle Mesure Systèmes.....	48	Shinsei (Jiangyan) Steel Flanges Co Ltd	26
Corus Northern Engineering Services.....	27	Sica SpA.....	33
Cronimet Group.....	43	Siemens AG.....	28
Erciyas Celik Boru Sanayi AS	32	Sino International Business Co Ltd.....	54
Erne Fittings GmbH.....	49	Sitindustrie	55
Feinrohren SpA.....	20	Socotherm España SA.....	15
Fibrepipe GmbH.....	59	Socotherm SpA.....	8, 11, 15
GE Sensing & Inspection Technologies	25	SolVin SA.....	16, 43
GH Electrotermia SA	49	Superior Technologies Europe Ltd.....	33
Gopal Group.....	45	Swagelok Company	12, 15
Guangzhou Hongda Steel Co Ltd.....	50	Swagelok Europe	12, 15
Guilin Lijia Metals Co Ltd.....	50	T&H Lemont	53
Haitima Corp	50	Team Pulsar Racing	9
Hart bv.....	43	Thai-German Products Public Company Ltd.....	32
Hypertherm Europe.....	9	<i>Tube & Pipe Technology Magazine</i>	55
Ihlas Fuarcilik.....	15	Tuf-Lok International	37
International Exhibition Centre Ltd.....	9	Uponor	10, 24
International Tube Association	14, 50	US Steel Košice sro	27, 56
Interpipe	8, 19, 24	Valsir SpA.....	9
Jannone Tubi Srl.....	26	Variety Steel.....	44
Jiangsu Guoqiang Ind Co Ltd.....	50	voestalpine Tubulars GmbH & Co KG.....	56
KraussMaffei.....	29	Weifang Shengjiang Economic & Trade Co Ltd....	56
The Linde Group	12	Wenzhou Tiancheng Stainless Steel Manufacturing Co Ltd.....	37
Maxvalue Industries Co Ltd	54	Wyman-Gordon Ltd.....	27
Messe Düsseldorf GmbH.....	14	Yee Young Industrial Co Ltd.....	56
Mine & Mining Industries Database	12	Zhejiang Jiaxing Zhongda Group.....	57
N Sguassero SpA.....	36	Zhejiang Jiuli Stainless Steel Pipe Co Ltd	53
Nap Gladu	20	Zhuhai Gulf Heavy Industry Steel Pipe Co Ltd.....	57
Olympus NDT	20		

Acciai Tubi	49	Shinsei (Jiangyan) Steel Flanges Co Ltd	25
Acciaieria Arvedi.....	41	Stahlrohr GmbH	Inside Back Cover
Aro Steel Srl	Back Cover	Stappert Spezial-Stahl Handel GmbH	45
ATI Srl	58	Suraj Stainless Limited.....	53
Beijing Master International Trading Co Ltd	1	www.tubefirst.com	53
Both-Well Steel Fittings Co Ltd.....	13	<i>Tube & Pipe Technology Magazine</i>	51
Buhlmann Rohrfittings-und Stahlhandel GmbH	21	Tubetech Corporation Ltd	55
China Tubenet	28	Tubificio di Terni	Front Cover
Cincinnati Extrusion GmbH – Pipe Symposium Vienna 2008.....	17	Wenzhou Chisin Valve Co Ltd.....	55
Congress Ltd.....	23	Wolf Maschinenbau AG.....	29
Heavy Metals & Tubes Ltd	7	Zibo Wel-Fit Metal Products Co Ltd	57
Hobas Engineering GmbH	3		
Krais Tube Expanders Mfr.	57		
Max Value Industries Co Ltd.....	32		
Metal Expo JSC	31		
Officine Orsi SpA.....	2		
Quality Stainless Pvt Ltd	11		
Randolph Tool Co Inc.....	49		
Shandong Flying Casting & Forging Co Ltd	Inside Front Cover		

Forthcoming Features

OCTOBER 2008

- Fabricated Tube Products
- Small Diameter, High Precision Tubes
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JANUARY 2009

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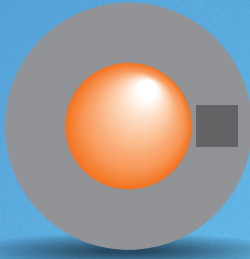
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