

# Tube Products

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## INTERNATIONAL

The World of Tube & Pipe Products, Materials & Ancillaries

January 2009



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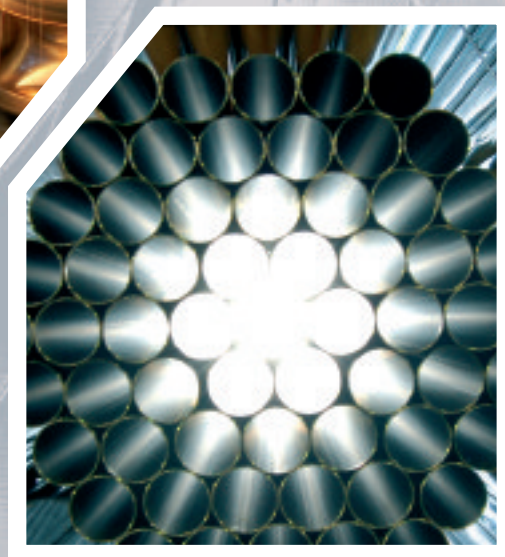


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January 2009

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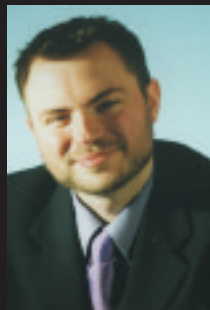
# TubeProducts

INTERNATIONAL

The World of Tube & Pipe Products, Materials & Ancillaries



## Interesting times . . .



As the famous saying goes: 'may you live in interesting times...' and never has this adage been so relevant as it is for this historic period of our lifetimes. One theory is that this phrase originates from the following Chinese saying "时势造英雄"(pin-yin:shi shi zao ying xiong), which means heroes (leaders) are made over turbulent times.

As I write this leader, it has only been a couple of weeks since the first African-American president, Barack Obama, has been elected and the world waits with bated breath to see what impact he will have on the global economy when he takes up office on 20 January. Indeed, here in the UK, where there are suggestions that our interest rates may have to be slashed to zero as we battle to avoid a full-blown depression, we wait with interest to see if any upturn in the US economy has a positive knock-on effect for countries on the other side of the Atlantic.

The tube & pipe industry kicks off 2009 almost immediately with the second Tube Arabia exhibition that is held as part of the existing (9<sup>th</sup>) Tekno event in Dubai, UAE (10-13 January). The first staging of this event in 2007 recorded a significant visitor and exhibitor attendance not just from the Middle East and neighbouring regions, but from all over the world. In this issue we report on the Tube Arabia 2009 show which looks set to remain the key tube & pipe exhibition for the region, staged in a city that is astounding the world with its architectural innovation and rapid development.

In March this year, and not so geographically far away from Dubai, the 5<sup>th</sup> BORU exhibition will take place in Istanbul, Turkey (5-8 March). In these pages we highlight information concerning this already impressive event displaying metal, plastic and composite tubes, pipes, fittings and machinery. Together with these two show previews, you can also read about the latest technology and products available for the water and gas industry, as well as construction and building.

In our upcoming April 2009 issue we turn our attention to 'Welded Tube Products' and also 'OCTG & Pipeline Products'. If your company is involved in either of these sectors then we invite you to send in editorial and pictures for inclusion. This service is free of charge and more information about submitting editorial is available on our website: [www.read-tpi.com](http://www.read-tpi.com)

May I take this opportunity to wish you and your company success and prosperity during 2009 and through these turbulent times.

**Paul Hogg**  
Editor

## events calendar

### 2009

**January**  
10-13

**Tube Arabia 2009**  
International Exhibition  
[www.alfajer.net](http://www.alfajer.net)

**March**  
5-8

**Boru 2009**  
International Exhibition  
[www.boru.com.tr](http://www.boru.com.tr)

**May**  
12-15

**Tube Russia 2009**  
International Exhibition  
[www.metallurgy-tube-russia.com](http://www.metallurgy-tube-russia.com)

**June**  
10-12

**Tubes & Fittings Ukraine**  
International Exhibition  
[www.tube-ukraine.com](http://www.tube-ukraine.com)

**October**  
6-8

**Tubotech 2009**  
International Exhibition  
[www.cip Janet.com.br](http://www.cip Janet.com.br)

**October**  
13-15

**Tube Southeast Asia 2009**  
International Exhibition  
[www.tube-southeastasia.com](http://www.tube-southeastasia.com)

**November**  
15-18

**Fabtech 2009**  
International Exhibition  
[www.sme.org/fabtech](http://www.sme.org/fabtech)

### 2010

**April**  
12-16

**Tube Düsseldorf 2010**  
International Exhibition  
[www.tube.de](http://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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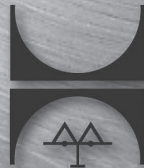
# BEST

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# business & market news

▲ RathGibson titanium tubing will be installed in India's US\$4.2 billion Tata Mundra Project

## Contract for Tata Mundra Project

RathGibson, USA, is a manufacturer of welded, welded and drawn, and seamless stainless steel, nickel, and titanium tubing.

The company's Bahrain branch office has secured a major contract in India's first 4,000 megawatt power project.

The company was chosen by Indian engineering firm Larsen & Toubro to supply titanium welded tubing for the condensers for the Tata Mundra Project. The power plant will be built near the city of Mundra, in the state of Gujarat, India.

Alfredo D'Souza, the company's director for business development, Middle East and India, commented, "Our commitment to the region has resulted in increased education and technical support for our channel partners and end-users. We are excited to witness the exponential expansion in this area and are proud to contribute to that development."

Developed by Coastal Gujarat Power Limited, the Tata Mundra Project will provide power to over 16 million customers in the states of Gujarat, Rajasthan, Maharashtra, Punjab, and Haryana. The plant, an answer to the country's energy shortage, will

contribute to India's domestic growth and commercial competitiveness.

The project will create India's first private power plant to use supercritical technology. The term 'supercritical' refers to the state of water when it cannot be clearly defined as a liquid or a gas. By achieving this supercritical state, the efficiency of energy generation is increased while emissions are greatly decreased.

RathGibson supplies products to 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](http://www.rathgibson.com)

## A look ahead to Tube 2010

The international trade fairs Tube and wire, being held for the twelfth time, will showcase technological power from the sectors of wire, cable and tube processing, at Germany's Düsseldorf

Exhibition Centre from 12 to 16 April 2010.

Tube 2010 will take place in halls 1 to 7, where a complete range of products and services will be displayed, including tube production via processing to machining.

Exhibits will include raw materials, tubes and accessories, machinery for the production of tubes, used machines, process technology tools and auxiliary materials, measurement and control technology.

Test engineering and special areas such as warehouse automation, monitoring and control systems will complement the range of technology on display.

The accompanying wire 2010 event will be held in halls 9-12 and 15-17. The segmentation in halls 15 to 17 is new for this show. The area of fastener technology will present its current technologies in hall 15, while part of hall 16 will be dedicated to the latest processes in spring making.

All applications connected to wires and cables, wire and cable machinery and fibreglass machines will be located in halls 9-12 and 16-17.

A major topic is the area of tube trade. For the second time, after a successful debut in 2008, pipelines and OCTG (oil

country tubular goods) technology will be showcased.

For the first time, there will be a special show about profiles and profile technology, featuring machines and systems for the production of profiles and presenting the final products.

After the success of the two events in 2008, the organisers estimate that 35,000 visitors and 1,000 exhibiting companies will attend Tube 2010, in a display area of 40,000m<sup>2</sup>.

wire 2010 is expected to welcome more than 41,000 visitors and host around 1,100 exhibitors in 51,500m<sup>2</sup> of exhibition space.

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

## Stainless steel pipes for projects in Egypt and Oman

Sitindustrie, Italy, has supplied more than 3,000 tons of stainless steel pipes for projects in Egypt and Oman.

Sitindustrie Tubes & Pipes produced 1,900 tons of stainless steel pipes for Khalda Petroleum for the Qasr project in Egypt, a joint venture between the American company Apache Energy and the Egyptian General Petroleum and others.

The field of Qasr is one of the most important for the extraction of gas on

▼ *Sitindustrie supplied stainless steel pipes for two major projects*



## Interpipe to supply steel pipes for construction of new cruise ship

Steel pipe and railway wheels producer Interpipe has signed a contract with Finnish Steel service centre Finnish Ore Oy. Interpipe will supply steel pipes via Finnish Ore Oy for the building of the giant cruise ship *Allure of the Seas*, to be constructed in the Turku yard in Finland by international shipbuilding group STX Europe. Interpipe will supply seamless hot-formed construction pipes to be used in building the deck along the perimeter of the vessel.

The Oasis-class cruise ship will be a sister ship of the largest cruise ship in the world, *Oasis of the Seas*, of cruise company Royal Caribbean International. The new ship will have a length of 360m, a width of almost 50m and a height of 73m.



▲ *Cruise liner Allure of the Seas*

Representatives of Finnish Ore Oy and STX Europe visited Interpipe's mills and conducted an internal audit of the manufacturing technologies employed, to ensure the pipes are produced in accordance with the two companies' high quality standards.

Oleg Kuzmin, director for corporate affairs at Interpipe, commented, "*Interpipe highly values the opportunity to assist with the building of giant cruise ship Allure of the Seas, and we look forward to working closely with Finnish Ore Oy during this project. The realisation of the project will enable Interpipe to expand its sales within the Northern European market and improve its presence in the shipbuilding industry.*"

**Interpipe** – Ukraine  
press-office@interpipe.biz • www.interpipe.biz

dry land. Discovered in Egypt in recent years, it has a capability of 1.5 million cubic metres of gas and 1,739 barrels of oil per day.

The company also produced 1,100 tons for the Saih Rawl and Mabrouk projects in Oman, managed directly by Petroleum Development of Oman.

This order strengthens the company's close relationships with the Sultanate and follows previous orders in 2005 (US\$12.5 million) and 2006 (US\$25 million), for the management and the export of natural gas present in the vast fields of Oman.

The values of the two orders were €12.6 million and €9.6 million respectively. Both orders were

produced in ferritic/austenitic stainless steel (Duplex, UNS S31803), requiring a difficult manufacturing process.

Fausto Boccione, president and managing director of the Sitindustrie Group, stated that "*these important orders allow us to confirm the positive growth in market of stainless steel pipes. The successful trend in the field of stainless steel tubes and pipes intended to the oil and gas extraction and refinery, shows that Sitindustrie is able to support the most important worldwide engineering companies in the achievement of projects that are becoming larger and more complex, due to the high price of oil.*"

**Sitindustrie Tubes & Pipes** – Italy  
andrea.ulliana@sitindustrie.com  
www.sitindustrie.com

## 100<sup>th</sup> anniversary celebrations

German pipeline manufacturer egeplast has hosted a special event to celebrate its centenary year.

The Gröter company began as a jute spinning works in 1908, founded by Engelbert Gröter. Now known as egeplast, the company manufactures underground pipelines. Since 2001, the enterprise has had its head office in Greven, Germany, where it occupies a modern factory for manufacturing polyethylene pipes.

In August 2008, egeplast welcomed more than 500 guests to celebrate the company's one-hundredth anniversary with an entertaining discussion in a conversational tone with Christa Thoben, the NRW minister for economic affairs, and a look back at the company's history set within a musical play. The company asked guests for donations to PolioPlus from Rotary International instead of gifts. A total of €20,000 was collected, which will be used for universal vaccination programmes against polio.

The event was not intended to be a conventional anniversary celebration. As Dr Ansgar Strumann, CEO at egeplast, explained, "We do not wish to



▲ *Relaxed discussions with the NRW minister for economic affairs Christa Thoben, Dr Ansgar Strumann, Dr Nina Strumann, Edith Strumann and Werner Strumann*

*merely look back on our special history, but primarily to look forward to the future. This is why we organised a future symposium as part of our celebration, where people from the trade could discuss current industry trends."* The symposium offered talks from well-known speakers on the subjects of trenchless construction, plastic innovations in pipeline construction, disposal and telecommunications.

The symposium included a presentation of HexelOne by the company's head of development, Dr Thorsten Späth. The new plastic pipe is manufactured solely from polyethylene using the new HexelOne production procedure, which enables leftover pieces to be recycled in an environmentally friendly manner. Werner Weßing from E.ON Ruhrgas AG spoke on the outlook for plastic pipes in gas infrastructure, in particular the need for innovative, efficient solutions for the competitive transportation of natural gas as a source of energy.

The company has recently created a 2,000m<sup>2</sup> test area for pipe installations, where it can demonstrate products to customers and conduct air injection trials with fibre optic cables. Approximately half of the company's turnover is for export, and the company has several distributorships in Europe. The company's Greven production location produces 50,000 tonnes of plastic pipes each year.

**egeplast Werner Strumann GmbH & Co KG** – Germany  
info@egeplast.de  
www.egeplast.de

## Boiler World Expo 2009

BoilerWorldExpo2009 will take place at University Ground, Ahmedabad, Gujarat, India, 20-22 March 2009, with the approval of ITPO (India Trade Promotion Organisation). The event is being organised by KMG Business Technology.

The show aims to promote the growth, expansion and development of boiler industries in India. More than 300 companies will participate, including businesses from Japan, USA, Germany, Italy, Taiwan and Singapore.

**KMG Business Technology** – India  
info@kmgindia.com  
www.kmgindia.com

## Exclusive commercial agent for ThyssenKrupp

ThyssenKrupp Metallurgie GmbH, Germany, has announced the appointment of Metal Trading SARL, as its exclusive commercial agent for the sale of primary copper, zinc and nickel in France, Belgium and Luxembourg. The agreement is effective immediately.

ThyssenKrupp Metallurgie GmbH is one of the largest metal trading companies in Europe, with an annual turnover of around €1.2 billion. It is a legally independent firm within the ThyssenKrupp Group.

Metal Trading SARL, based in Louveciennes, France, is a privately-held non-ferrous metal trading company, specialising in zinc and zinc residues, with a 2007 turnover of €45 million.

**Thyssen Krupp Metallurgie GmbH** – Germany  
metallurgie@thyssenkrupp.com  
www.tkmet.com

**Metal Trading SARL** – France  
zinc@metaltrading.fr  
www.metaltrading.fr



▲ *egeplast development manager Dr Thorsten Späth presents the new HexelOne pipe*

▼ *100 years of egeplast as a stage play in movement and music*



## Contract for coating of pipeline

Socotherm Americas, a subsidiary of Socotherm and a leading company in the field of pipe coating and insulation for the transport of oil, gas and water, has signed a letter of intent prior to being awarded the final contract for the coating of steel pipes for the Kizomba Satellite Project.

The letter of intent, signed with Esso Exploration Angola, a subsidiary of Exxon Mobil, for a value of around US\$20 million, relates to the application of total protection to the 142km Kizomba Satellite transportation pipeline.

The contract will involve the application of a high density polyethylene anticorrosive system (Plastikote®), epoxy anticorrosive internal coatings (Innerkote®) and a high thickness polypropylene thermal insulation system (Wetisokote®) on the linepipe and the production risers of the oil platform.

The steel pipes will be coated from the first quarter of 2009 by Socotherm Americas subsidiary, Socotherm Angola Ltd, at the company's Luanda plant. Steel pipes of 10" and 16" diameter will be coated and assembled one inside the other, in order to create insulated, double wall pipelines of 50km, to be launched into the sea.

A further 42km of 12" diameter steel pipes, to be submerged in deep waters, will be insulated by the Wetisokote system.

Socotherm, founded in 1859 in Vicenza, Italy, is a pipe coating contractor with plants in Italy, Spain, Australia, Malaysia, China, Nigeria, Angola, Qatar, Argentina, Brazil, Venezuela and USA.

The group offers many types of pipe coating, including external and internal anti-corrosion and concrete weighting, and specialises in thermal insulation for the deep water sector (oil extraction from great depths), offering state-of-the-art technological solutions.

The company is also active in the design, production and sale of 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

**Socotherm Americas** – Argentina  
socotherm@socotherm.com.ar  
www.socotherm.com.ar

## Pipe and Tube Group Ltd becomes Benteler Distribution Ltd

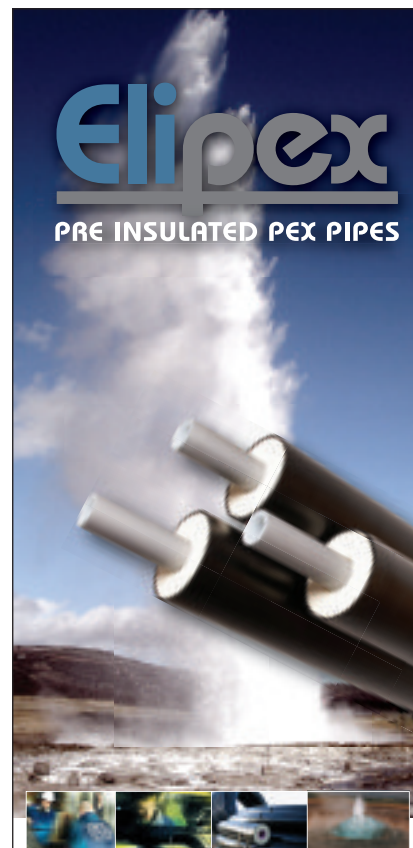
Pipe and Tube Group (PTG) has changed its name to Benteler Distribution Ltd, with effect from 1 September 2008.

The company has been part of the Benteler Group since 1994 and has actively promoted the Benteler name. The name change is part of a global strategy to provide a uniform, one-name, one-firm approach, and to offer high-level service complete with a wide range of steel tubular products and accessories.

Benteler Distribution is a stockist and processor of steel tubes and accessories, and is part of an international network operating more than 70 branch offices in 30 countries. The company can use its international network to assist customers to expand into new foreign markets. The Benteler Distribution Group operates in market segments including mechanical engineering, construction, furniture and leisure industries, automotive industry, power generation and petrochemicals.

**Benteler Handel GmbH** – Germany  
info@benteler-handel.com • www.benteler.de

**Benteler Distribution Ltd** – UK  
www.benteler-distribution.co.uk



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set@set.is • www.set.is

## Duke of York visit to mark first phase of expansion

His Royal Highness, the Duke of York, has visited Swagelok Ltd to celebrate the opening of a new, state-of-the-art 880m<sup>2</sup> warehouse. HRH, who is the United Kingdom's Special Representative for International Trade and Investment, unveiled a plaque in commemoration of the expansion, which will enable the streamlining of processes and help the company meet increased demand.

Swagelok Ltd is the Isle of Man operation of Swagelok Company, a provider of fluid system technologies. Its manufacturing helps to complete the company's piping and regulator product offering for the oil, gas and petrochemical industries. From the Isle of Man facility, Swagelok also serves local niche markets that require

quick turn-around on high added value and specialised products.

*"Swagelok is a classic business in the sense that it has high technology, its employees have a high level of skill, and it is globally focused,"* the Duke of York said. *"It is a great pleasure to come here and learn more about what you do and the markets in which you deploy your product."*

Senior Swagelok associates accompanied HRH on a tour of the facilities, where he had the opportunity to speak to employees about various



▲ His Royal Highness, the Duke of York, listens as Swagelok associates explain the benefits of the company's products

aspects of the company's manufacturing operation.

*"We are privileged to have the opportunity to host HRH at our expanded premises,"* commented Thomas Freund, European director of operations

## Management change at Cincinnati Extrusion

In the interest of continuity and further growth, Walter Haeder, managing director and CEO of Cincinnati Extrusion, has implemented a long-planned management change.

Erich Hauk, managing director of sales, and Hans Berlisg, managing director of marketing and services, both went into retirement at the end of 2008. With effect from 1 September 2008, their responsibilities on the management board have been taken over by Marc Glabisch and Peter Hammer, with Mr Haeder remaining as managing director and CEO.

Mr Hauk began his career at Cincinnati in 1965 and held various positions within the company in the following years. He had been responsible for sales worldwide since 1995. Mr Berlisg joined the company in 1968 and also held a number of leading positions. In addition to his marketing talents he founded Extruserve, a brand of Cincinnati Extrusion specialising in the design of screws and barrels and the complete overhaul of used machines.

*"I wish to thank Mr Hauk and Mr Berlisg for more than 40 years of loyal service to our company,"* said Mr Haeder. *"I have always appreciated and still appreciate their very sincere and dependable cooperation during our years together and the experience they have contributed."*

Marc Glabisch studied plastics engineering at Paderborn University, and has been working in the extrusion industry since 1996, moving to Cincinnati Extrusion in 2006. Peter Hammer joined Cincinnati in 1989 and has been in charge of after sales services, IT and automation.



▲ From left to right: Marc Glabisch and Peter Hammer, successors to Erich Hauk and Hans Berlisg

**Cincinnati Extrusion GmbH** – Austria  
welcome@cet-austria.com • www.cet-austria.com



▲ Walter Haeder, managing director and CEO of Cincinnati Extrusion

at Swagelok Company. "We work closely with the Department of Trade and Industry and other government departments to ensure the continued growth of manufacturing, which is the Isle of Man's second biggest sector. The growth of our presence here is key to ensuring Swagelok's continued success as an industry leader in fluid system technology and services."

Currently employing 180 people, Swagelok Ltd is one of the largest of the 52 manufacturing companies on the Isle of Man. Since the purchase of the facility in 2003, Swagelok has invested heavily in new machinery, recruiting, and training additional associates, as well as investing in the refurbishment of the offices and information service upgrades. The warehouse expansion is the first phase of an expansion plan aimed at providing additional capacity.

In the past year, Swagelok's Isle of Man workforce has grown by 20%, and recruitment of skilled professionals such as manufacturing, process and maintenance engineers and CNC operators is continuing. The company has introduced extensive training and personal development programmes, and offers training schemes for those looking for a career change. These include a mature apprentice programme which involves on-the-job training in CNC and conventional machining, night school and National Vocational Qualification (NVQ) support to allow associates to become qualified CNC machine operators.

**Swagelok Company** – USA  
[www.swagelok.com](http://www.swagelok.com)

## A successful Tube China 2008

The organisers of Tube China 2008, which took place alongside wire China 2008 in September at the Shanghai New International Expo Centre, have reported that the event ended on a high note.

The combined shows hosted 1,098 exhibitors, occupying an exhibiting area of 57,500m<sup>2</sup>, including nine country/region pavilions for exhibitors from Austria, France, Germany, Italy, Korea, Spain, UK, North America and Taiwan.

Two highlighted showcases, 'Chemical' and 'Spring and Fastener', witnessed a rapid growth, with the number of exhibitors in the 'Chemical' showcase almost reaching 100 – double the number in 2006.

The event was attended by over 30,000 trade visitors from around the world, including delegates from India, Iran, Korea, Japan, Malaysia, Taiwan, Thailand and Vietnam. Manufacturers and companies from related industries, such as wire, cable, raw materials,

tube and pipe, and production and refining machines, were said to be very satisfied with the trade fair. Exhibitors also praised the business talks with guests and the high ratio of international visitors.

The next event, wire and Tube China 2010, will take place in Shanghai in September 2010.

**Messe Düsseldorf China Ltd** – China  
[www.mdc.com.cn](http://www.mdc.com.cn)  
[www.tubechina.net](http://www.tubechina.net)

## HIGH PRESSURE FITTINGS

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- 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)



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## Olympus launches new global website

Olympus has launched a new global website, [www.olympus-ims.com](http://www.olympus-ims.com). The extensive new site contains information on ultrasound (UT), eddy current (EC), remote visual (RVI) and high-speed video (HSV) testing products. The website replaces previous sites [www.olympusindustrial.com](http://www.olympusindustrial.com) and [www.olympusndt.com](http://www.olympusndt.com).

In addition to product information, the site offers a wealth of application notes that guide users to cost-effective test solutions, as well as software downloads, and a PDF library. The website also has an extensive educational theory section, with several interactive tutorials to help users learn more about non-destructive testing technologies. Web content is in several languages: English, Japanese, Spanish, German, French, Italian, Chinese, Czech, Hungarian, and Vietnamese.

Olympus provides a portfolio of non-destructive solutions, featuring innovative ultrasonic testing, eddy current, and related testing technologies. The company's goal is to supply reliable and economical inspection and maintenance systems that enhance environmental and personal safety, security, and productivity for customers.

**Olympus NDT – USA**  
[www.olympus-ims.com](http://www.olympus-ims.com)



▲ The homepage of the new Olympus website

## Plastic system for first overland circuit of the earth

A team headed by Matthias Jeschke, the man behind some remarkable record-breaking automobile exploits, is to attempt a full overland circuit of the earth – a feat that nobody has yet achieved. The greatest obstacle on the extreme voyage will be crossing the Bering Strait, where the expedition must take to the open water. To achieve this, the German company Simona has produced a float system that will be subjected to severe demands.

The greatest problem facing the designers of the float system for vehicles taking part in the Paris/New York Transcontinental 2009 expedition was finding a way to maximise load-bearing capacity whilst minimising weight. The engineers used a material capable of withstanding extreme pressures: Simona PE-HWU sheets offer outstanding weathering stability, performing in a wide range of applications within an operating range of -50°C to +80°C.

With a combination of low weight and high impact resistance, effective handling of the components in the float system is ensured. For the duration of the expedition, the Simona floats will be transported on trailers. When required,

the drivers must be able to attach them to the jeeps under extreme conditions, using muscle power only, and then remove them again.

The international team is aiming to become the first to circumnavigate the globe by land using only automobiles, tracing ancient human migration routes. In this way, the team will promote carbon neutrality, the use of renewable energies and energy efficiency around the world. The historic route takes in a total of 20 countries as it passes through Europe, Russia, Mongolia, Alaska, Canada and the USA. In each country, the emphasis will be on the ways in which specific nations, partner organisations and the project team can unite to combat or neutralise carbon dioxide emissions.

The Paris/New York Transcontinental 2009 expedition will aim to leave no carbon footprint. Several measures will be taken to preserve the integrity of the environment along the route of almost 43,000km. To ensure no tyre tracks are left behind, the convoy will travel in winter. Whenever off-road, the vehicles will stick to metres-thick snow, ice and ground that is deep-frozen in permafrost.

For the engines, axles and gearboxes, the expedition will use low-emission biofuel and bio-oils based on easily biodegradable, renewable or regenerative materials. Carbon levels will be monitored throughout the project. At the end of the trip, the carbon dioxide created by the project will be offset by planting the appropriate number of trees in close cooperation with national authorities. Ultimately, the expedition will contribute towards a reduction in CO<sub>2</sub>.

Simona lent its support to the round-the-world expedition as it fully endorses the objectives of the project. Environmental protection and the sustainable use of resources are key corporate priorities for Simona. For decades, the company has avoided using lead and cadmium in its production processes. The company also recycles more than 95% of all waste, feeding these materials back into the production cycle. Its products for the automobile industry in particular serve to reduce weight, contributing to lower emissions, and its environmental management system is certified under DIN EN ISO 14001.

**Simona AG – Germany**  
[mail@simona.de](mailto:mail@simona.de) • [www.simona.de](http://www.simona.de)

**Paris/New York Transcontinental 2009 Extrem Events – Matthias Jeschke eK**  
– Germany  
[mjeschke@ee-mj.com](mailto:mjeschke@ee-mj.com)  
<http://pny2009.com>



## New international offices

RathGibson, a manufacturer of welded, welded and drawn, and seamless stainless steel, nickel, and titanium tubing, has opened three new international offices.

To provide local support for its channel partners and customers, the company has opened offices in Mumbai (India), Singapore, and Vienna (Austria). The Mumbai office provides RathGibson with a significant presence in the financial capital of India. The Singapore office helps facilitate sales to Southeast Asia, while the Austria office supplies additional support to Europe.

In addition to the new offices, six new team members have joined RathGibson. Joining the Greater China Team are Louisa Zhang, Irene Wang and Sunny Sun. Ms Zhang, the national sales manager for key accounts is the liaison for all fabricators in the Chinese market place. Serving as technical support manager, Ms Wang not only manages local customer support, but

also spearheads the Regional Technical Training Programs for customers and channel partners. Mr Sunny Sun serves as national sales manager for the chemical market.

Ms Zhang, Ms Wang and Mr Sun are based in the Shanghai office and report to Peter Wang, director – business development, Greater China.

As manager – business development, India, Michael Edinburgh serves in the Mumbai, India office and reports to Alfredo D'Souza, director – business development, Middle East and India. Mr Edinburgh focuses his energy on meeting the needs of RathGibson customers in India.

As ASEAN regional business manager based in Singapore, Gilbert Boon is responsible for day-to-day operations, as well as providing the leadership to develop and strengthen RathGibson's ventures in Southeast Asia. Mr Boon reports directly to Wayne Hungerford,

director – business development, North and South East Asia and Oceania.

Steve Soroko serves as RathGibson's first director – business development for Europe. Mr Soroko manages the European business from Vienna, Austria and reports directly to Andrew Yeghnazar, vice president – international business development. As the director, Mr Soroko monitors current markets and designs and implements RathGibson's strategic business enterprises in Western and Eastern Europe.

Along with the expansion of personnel and offices, RathGibson has been awarded 'Perfect Performance' from the Mamon/Keystone Corporation's Supplier Quality System (SQS).

This marks the third time that RathGibson has achieved this honour. RathGibson executives Michael Schwartz, president, and Jim Baumann, director of distribution sales, received the award at the 2008 annual Supplier Recognition Day.

**RathGibson – USA**  
www.rathgibson.com

## Citypipe international exhibition

The 4<sup>th</sup> CityPipe international exhibition, titled 'Piping systems for Municipal Infrastructure: Construction, diagnostics, repair and operation', will be held 26-29 May 2009 in Pavilion #3, Hall 13 of the Crocus Expo International Exhibition Center, Moscow, Russia. The estimated exhibition space is 8,000m<sup>2</sup>.

CityPipe was originally part of the ECWATECH exhibition (water and wastewater technology show), but is now a separate exhibition. Topics of the event cover a wide range of issues related to construction, diagnosis, repair and operation of piping systems in municipal infrastructure: heat, water and energy supply, water disposal and communications.

The exhibition will feature pipes and manholes for water supply, water disposal (sewage, drainage, etc), heat supply, gas supply and communications. Other areas covered include equipment for pipe manufacturing, valves and fittings, pipeline laying and repair, machines and materials for construction and repair of piping systems, and trenchless technologies (equipment, materials and services).

The show will also feature operation of piping systems, machines, equipment and materials for piping system operation, pipeline inspection, quality control, corrosion prevention, design and research, and IT technologies in piping system design and operation.

**Sibico International Ltd (organiser) – Russia**  
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 partner for piping always aims at total customer satisfaction  
**NORPICO PIPE FITTINGS**

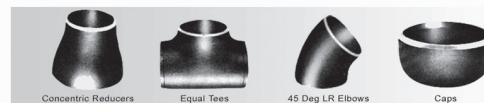
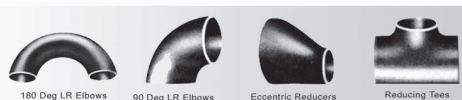
the leading manufacturer of butt welding pipe fittings in China

### Main Focus:

Butt Welding Pipe Fittings  
ASTM A234 WPB  
ASME B16.9

MSS-SP75 SH 3408

Seamless and welded type both  
1/2" - 24" Seamless, 26" - 48" Welded fabrication



ISO9001:2000

LR Type Approval Certificate

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www.norpico fittings.com

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## Swagelok senior research fellow honoured by ASM International

ASM International has elected Swagelok Company senior research fellow Sunniva R Collins PhD as a Fellow of the Society.

Joining an elite group of technical and professional leaders, Sunniva was selected for her contributions to the technical advances in stainless steels used in fluid systems applications.

She was formally inducted as an ASM Fellow (FASM) at the 2008 Materials Science & Technology Conference and Exposition Awards Dinner in Pittsburgh, Pennsylvania in October.

The honour of Fellow was established in 1969 by ASM International to provide recognition of members for their contributions to materials science and engineering, and to develop a broad forum of leaders to serve as advisors to the society. Members are chosen by their peers.

Sunniva Collins joined Swagelok in 1995 as a research metallurgist, and has served in several engineering management positions, most recently as technical director for Swagelok Technology Services Company.

In her current position, as the company's first senior research fellow, she coordinates the company's academic and governmental research initiatives. During her tenure at Swagelok, she has worked to develop key standards on materials specifications, welding, surface finish requirements, and corrosion test methods for the semiconductor equipment industry. She has also contributed to the research commercialisation efforts surrounding SAT12<sup>SM</sup> services and the patented SAT12<sup>SM</sup> process for surface hardening of stainless steels.

Swagelok Company is a developer and provider of fluid system solutions,



▲ Sunniva Collins has been elected a Fellow of the Society by ASM International

including products, assemblies, and services for the research, instrumentation, pharmaceutical, oil and gas, power, petrochemical, alternative fuels and semiconductor industries.

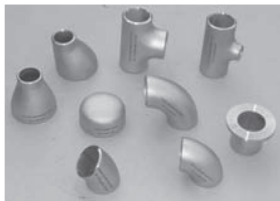
**Swagelok Company** – USA  
www.swagelok.com



### 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" X 1/2" ~ 60" X 36"



#### 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



#### Inspections

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



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Zibo, P.R.China Zip 255418  
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## New Centricut product marketing manager

Hypertherm's Centricut brand has appointed Martin Geheran as its new product marketing manager responsible for consumable sales of non-Hypertherm cutting systems. Mr Geheran is familiar with the North American, European and Asian markets, with more than two decades of experience with a number of global corporations. He most recently served as the senior product manager for a \$110 million consumables business, a position he held for ten years.

"Marty's experience building sales and awareness of consumable products on a global level make him a real asset to the Centricut team," said Dean Lizotte, team leader for the Centricut brand.

Hypertherm's Centricut brand engineers and manufactures advanced plasma and laser cutting consumables. Its product line includes consumables that deliver increased value to people who own almost any non-Hypertherm cutting system. All Centricut brand products are engineered and manufactured to exacting standards and incorporate the latest technological advances that help to reduce operating costs, while delivering increased cut speed and quality. Centricut products include free technical support and same-day shipping.

**Hypertherm Europe** – The Netherlands  
[hteurope.info@hypertherm.com](mailto:hteurope.info@hypertherm.com) • [www.hypertherm.com/eu](http://www.hypertherm.com/eu)

## Preparations for Tubotech 2009 get underway

Tubotech, the tube, fittings, pipes, valves and components fair staged in São Paulo, Brazil, is gearing up for a promising market.

The trade fair, which takes place from 6 to 8 October 2009, will feature raw materials, tubes and accessories, tube manufacturing machines, second-hand equipment, process technology tools, auxiliaries, measuring and control technology, and products and services for test engineering and trading in tubes.

For the first time, Messe Düsseldorf GmbH which, together with its Brazilian partner Grupo Cipa, organises Tubotech, has been tasked by the German Federal Ministry of Economics and Technology with coordinating an official national participation.

This translates as attractive terms of participation for all German exhibitors, and attests to the success the event has enjoyed in the past.

The last staging, in 2007, welcomed 12,000 visitors and boasted an increase in exhibitor numbers of just under 50% over its 2005 predecessor.

Suppliers around the world have recognised that Tubotech represents a gateway to South America for their industry.

Brazil is second only to the USA as European companies' top trading partner, and is the premier market in South America. It also serves as an attractive trade fair venue on the continent, in economic terms.

At the 2007 event, exhibitors from the USA, Canada, Taiwan, China, South Korea and Malaysia, as well as European nations such as Russia, Ukraine, Germany, France, Italy and the UK, occupied a total exhibition space of 12,000m<sup>2</sup>.

Event organiser Messe Düsseldorf has expertise in coordinating tube, wire and cable trade fairs around the world, such as Tube Russia in Moscow, Tube China in Shanghai, Tube Southeast Asia in Bangkok, Tube Arabia in Dubai and

Tube India International in New Delhi. Tubotech, the only trade fair of its kind in the Mercosur region, is backed by international industry association, the International Tube Association (ITA).

In 2009, the concept of integrating a valves section (Expoválvulas) and a

pumps section (Expobombas), which was initiated in 2007, will continue.

Tubotech will once again be staged in conjunction with Metaltech in 2009, offering visitors to the São Paulo fairgrounds a comprehensive overview of innovations and technologies in the fields of metalworking and processing.

**Messe Düsseldorf GmbH** – Germany  
info@messe-duesseldorf.de  
www.messe-duesseldorf.de  
www.tubotech-online.de

### SHINSEI FORGED FLANGES

CARBON, ALLOY, STAINLESS STEEL

#### PRODUCTS:

Blind, Slip-on, Slip-on Plate, Socket Welding, Threaded, Welding Neck & Lap Joint....etc.

#### MATERIALS:

—Stainless Steel: ASTM A182, F304/304L, F316/316L, SUS304L, SUS316L  
—Carbon Steel: ASTM A105, A350 LF2

#### PRESSURE RATINGS: (ANSI, DIN, JIS)

150, 300, 600 & 900 lbs  
5, 10, 20, 40 K  
PN2.5, 6, 10, 16, 25, 40

#### APPROVAL CERTIFICATES:

ISO-9001 Quality Assurance, PED(CE)

We have the most advanced technology in our forging process, with an excellent management team. Please send your inquiries via our email or approach us for our company brochure and products catalogues.



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E-mail: shinsei@ssflanges.com.cn



# products & developments

Photo – TS Steel Pipe & Fittings Srl – see page 20

## Increased nozzle life for plasma cutting systems

Hypertherm's Centricut brand engineers and manufactures advanced plasma and laser cutting consumables. Its product line includes consumables that can deliver increased value to users of most cutting systems, including systems from ESAB, Kjellberg, and Trumpf.

All Centricut products are engineered and manufactured to exacting standards and incorporate the latest technological advances that help to reduce operating costs, while delivering increased cut speed and quality.

The company has launched new technology to benefit owners of Kjellberg® plasma cutting systems. Operators of Kjellberg's FineFocus 800 and 900, as well as its PA-S70 and PA-S75 products, can now purchase nozzles that are claimed to last twice as long as current Kjellberg nozzles. The nozzle life is increased, and operating costs reduced, through the use of patent pending CoolFlow™ technology and patented SilverLine® technology.

Centricut's CoolFlow technology was developed using advanced modelling software that enabled engineers to closely study heat distribution within the nozzle, as well as the cooling process. Centricut engineers then worked to

design a nozzle that would funnel the cooling fluid to the hottest areas of the nozzle. The end result is money saved for customers, because the nozzle stays cooler and lasts longer.

The CoolFlow technology is combined with Centricut's patented SilverLine electrode technology to further increase nozzle life. To create SilverLine electrodes, Centricut's machinists use a combination of silver and copper to increase electrode life.

*"The increased life span of the CoolFlow nozzles will help Kjellberg owners save money, since advanced Centricut technology translates into a need for fewer consumables,"* commented Dean Lizotte, team leader for Hypertherm's Centricut brand.

Hypertherm designs and manufactures advanced plasma cutting systems for use in a variety of industries, such as shipbuilding, manufacturing, and automotive repair. Its product line includes handheld and mechanised plasma systems and consumables, as well as CNC motion and height controls.

**Hypertherm** – The Netherlands  
[hteurope.info@hypertherm.com](mailto:hteurope.info@hypertherm.com)  
[www.hypertherm.com/eu](http://www.hypertherm.com/eu)

## Stainless steel and nickel alloy tubes

Founded in 1974, Italian company Tecnofar SpA is a specialist in the manufacture of stainless and nickel alloy tubes. With advanced technology, the company has two production units, located in Delebio and Gordona, covering a total surface area of 7,000m<sup>2</sup>.

The company produces redrawn precision tubes, both in bar and coil form, using the TIG welding process. The company offers a modern, well-equipped department for tube cutting and is able to produce cut pieces measuring just a few millimetres in length, completely burr-free.

Tecnofar can adhere to a range of dimensional tolerances, with a stainless steel tube range of 0.3 to 76mm and wall thickness from 0.1 to 3.5mm. These tubes are produced using stainless steels provided and guaranteed by leading steel mills.

ISO 9001:2000 accredited by Italcert, the company has been certified by RINA for its welding system and heat treatment for the production range of OD 6-19mm and wall thickness of 0.4 to 1.1mm.

**Tecnofar SpA** – Italy  
[info@tecnofar.it](mailto:info@tecnofar.it)  
[www.tecnofar.it](http://www.tecnofar.it)

## Longitudinally welded steel pipes, coatings and linings

Riveco Generalsider SpA, Italy, is an industrial group focused on supplying products and services to companies involved in the business of conveying fluids, of transporting energy fuels (oil and gas) and to infrastructure industries.

The company's production is carried out on two different industrial sites with a combined extension of 96,000m<sup>2</sup>. The first production unit manufactures longitudinally welded steel pipes from 3" to 16" in compliance with most relevant international standards (including EN, API, DIN and ASTM), and pre-insulated pipes for district heating and HDPE pipes.

In the second production unit, anticorrosion coatings and linings for pipes up to 64" are applied, including PE, PP, concrete overweighting and sacrificial anodes application for offshore pipelines, rock-shield mechanical protections, polyurethane foam insulation for district heating projects and related services.



▲ Riveco Generalsider operates two industrial sites

The company's quality assurance system is certified according to international standards UNI EN ISO 9001:2000 and API 5L Spec Q1. In addition, the company has acquired certifications API Spec 5L, TÜV AD 2000-HP 0 and TÜV AD 2000-W0/TRD100.

The company is also a registered and qualified supplier, and has obtained a number of qualifications from major companies in the oil and gas transmission field.

**Riveco Generalsider SpA** – Italy  
leonzio@rivecogeneralsider.it  
www.rivecogeneralsider.it

## Stainless steel coils, sheets and plates

Suraj Metasteel is a stockist and importer from well-known mills such as Outokumpu, Columbus, Accerinox, Bao Steel Mill and Tisco Mill.

The company offers stainless steel plate, sheets and coils of 304, 304L, 310, 316, 316L, 316Ti, 321, 409, 430,

Duplex UNS, S31803, S32760 and S31500 grades, with test certificates. The company maintains its own stock, in order to provide prompt delivery.

**Suraj Metasteel Ltd** – India  
import@surajmetasteel.com  
www.surajmetasteel.com

## Custom tubular supports

Diversico Industries, USA, established in 1960, is a tube forming and speciality swaging manufacturer. The ISO 900:2000 certified company has complete in-house proprietary custom forming, rotary swaging, and end-forming, plus secondary operations such as drilling, punching, machining and finishing.

Custom tubular supports, poles and leg components swaged and formed by Diversico can provide design benefits over other fabricating processes.

Available in lengths from 1" to 15 ft, and diameters from 1/8" to 16", the custom tubular components add strength, resist bending, simplify design and add visual product appeal.



▲ Applications for Diversico's custom tubular poles, supports and legs include furniture, recreational, industrial, agricultural and marine products

Part characteristics available include transitions from round to square, tapers, expansions, reductions, reshaping, flaring, beading, weldless assemblies, heavy and thin wall, mating components, slip fits and reinforced tubes inside tubes.

Diversico fabricates many combinations of these part features, such as round to odd shapes with extreme wall thickness. Components can be end-formed with multiple secondary operations such as threading and beading. Materials formed range from aluminium to zirconium and almost everything in between.

The key benefit of the designs is to provide an array of new options. For example, Diversico's swaged tapers are strong and resist bending.

The chipless forming process Diversico uses causes the grain in metal to flow with the configuration of the part, maintaining or increasing the part's strength. Also, tubular assemblies can be eliminated by combining several formed tubular parts into a single-piece formed tube.

This removes the need for welding or adhesives that can cause heat distortion and finishing problems. Another option is weldless tubular assemblies, where one tubular part is inserted into another and locked into place.

Weld-free assemblies mean heat sensitive parts can be joined without expansion-coefficient problems.

**Diversico Industries, Inc** – USA  
sales@diversico.com • www.diversico.com

## 100% inspection of medical tubing made of opaque or transparent material

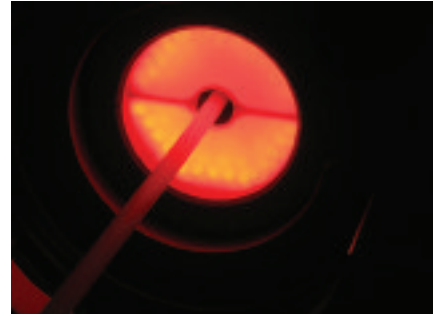
Pixargus develops and manufactures systems for optical inline measurement and inspection of plastic and rubber profiles. Established in 1999 as a spin-off of the Institute of Plastics Processing (Institut für Kunststoffverarbeitung IKV) of the Technical University RWTH of Aachen, Germany, the company specialises in optical quality control of extruded products made of plastics and rubber.

The company has launched the new Medictube-S system, which captures even the smallest flaws on the surface of tubing. The inline inspection system detects and classifies different defects such as pimples, bubbles, gel particles, inclusions or small holes, and is flexibly

adjustable to different materials and tube diameters. Sections of tubing not complying with the demanded quality standards can be cut out.

The system operates with four cameras, inspecting the tube surfaces completely, objectively and reproducibly, and allows the defining of precise quality standards for medical tubing, maintaining these standards throughout the production process, and ensuring that only completely flawless material is released for sale.

The captured data is used beyond the final inspection of the quality assurance process for optimising the production process and avoiding defects from



▲ The tube is illuminated from all directions to make defects visible on the complete circumference

the beginning. For example, trends in the frequency of occurrence of surface defects are captured in real time, so that remedial action can be taken immediately. The operators can directly intervene and promptly sort out defective material.

A special challenge in designing the inspection system was the fact that the outside diameters of many tubes are very small, and defect sizes of less than one tenth of a millimetre have to be detected. At the same time, such tubes are extremely sensitive to mechanical handling. This had to be taken into account in the guiding and threading solution of the system. Pixargus solved this challenge by providing a C-type slot at one side of the inspection unit, enabling the system to be moved into the production line even after the production run has started. The use of high-resolution cameras and a special split light source make the system capable of making even the smallest flaws visible and detecting them reliably.

Björn Lindner, managing director of Pixargus, commented on the advantages of the system: *“Especially in medical applications, 100% inspections are an absolute must. At production speeds of 50m/min and above, the human eye is unable to detect extremely small irregularities, above all in a transparent material. Also, so-called node monitoring devices, which used to be employed in the past, only measure the outside diameter in two axes. Our new system inspects every individual millimetre of tube from all directions. This ensures that only material of perfect quality is delivered to the customer. The system also helps manufacturers to significantly reduce their production costs.”*

**Pixargus GmbH** – Germany  
info@pixargus.de  
www.pixargus.de

## Carbon and stainless steel tubes

TS Steel Pipe & Fittings Srl is an Italian company specialising in the distribution of carbon and stainless steel tubes for various applications.

Among a wide range of products offered, the company delivers from stock seamless pipes for water and gas services (EN 10255, EN 10216-1, S195T and P235TR1). Tubes are produced mainly for use in the machine and building industries, and are used for liquid, air and gas distribution.



▲ TS Steel specialises in carbon and stainless steel tubes

These products are produced according to referenced standards for pressure pipeline and distribution systems.

TS Steel is a member of Zeleziarne Podbrezova Group, producing and distributing more than 400,000 tons of steel products per year.

**TS Steel Pipe & Fittings Srl** – Italy  
www.zelpo.sk



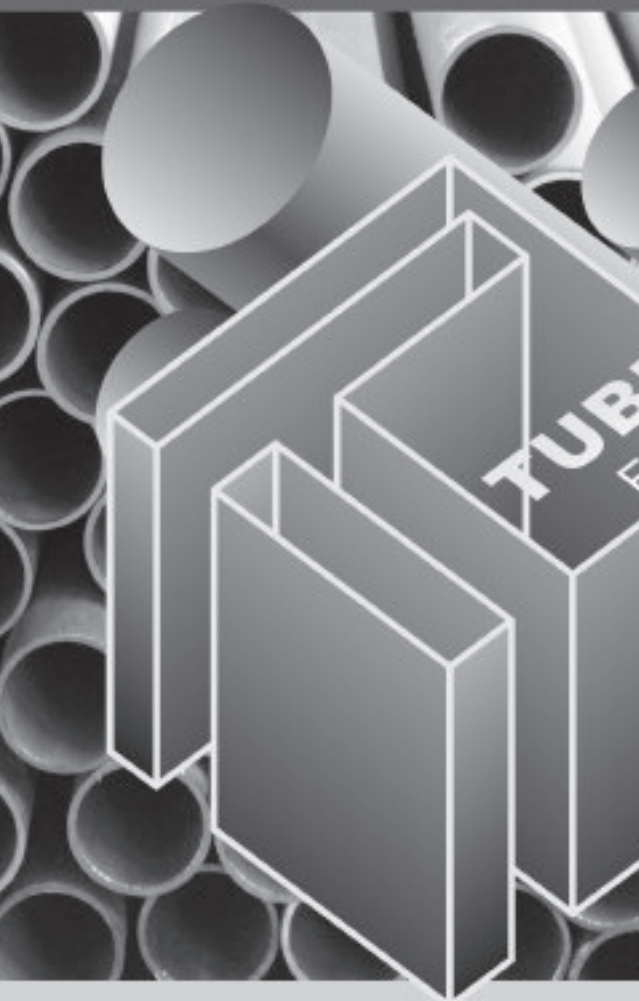
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# 2009

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## Safe braking

Swiss firm Serto Ltd has increased its capacity for manufacturing flexible jacoflon PTFE hoses, and now ships worldwide.

The high resistance to aggressive media, pressure, temperature and environmental effects, for which these hose assemblies are well-known, has led to a rising demand for jacoflon. Serto now manufactures these products in Switzerland, as well as in Germany.

*"Safety requirements are higher in all branches,"* commented Serto product manager Alexandra Kuhn. *"We have noticed this in the increased demand for our flexible jacoflon PTFE hoses, which offer a maximum of safety."*

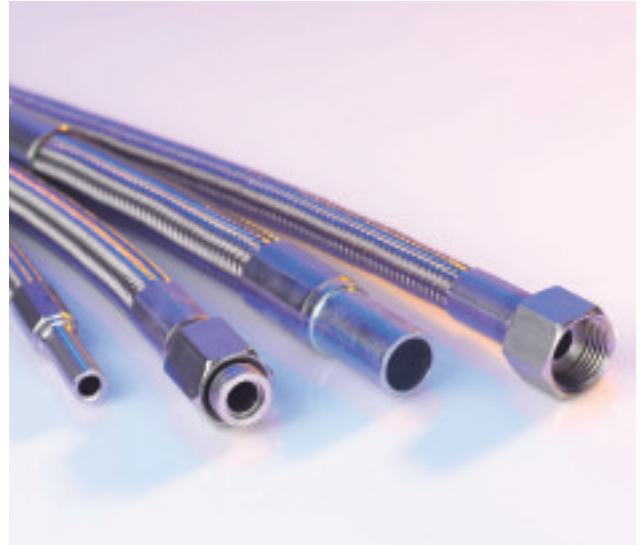
The company supplies the PTFE hoses with stainless steel jackets made to customer specifications in five different qualities, including gas and automobile quality, in addition to a variety of stainless steel fittings. The PTFE core is made of high-quality Teflon® and features a nearly universal chemical

resistance. Acids, solvents, steam or pharmaceuticals cannot harm them.

Safety is particularly important when transporting high purity liquids through flexible lines.

The media conveyed must not be adulterated in any way by the carrier medium. The resistance of the hose against aggressive media, pressure, temperature and environmental effects must be warranted.

PTFE has proven over many years to be a suitable material for such applications. jacoflon hoses from Serto satisfy these criteria, and also comply with food regulations. The thermal range of application is from -60°C to +250°C. The smooth walls of



▲ Serto Ltd has increased its capacity for manufacturing the flexible PTFE hoses

the extruded PTFE core and the anti-adhesive behaviour of PTFE mean that media with poor flow can be easily conveyed.

The effects of ozone and UV rays also cause no damage. Moisture absorption is less than 0.01%, according to ASTM testing.

The protective jacket made of stainless steel wire provides additional safety for these jacoflon products, and increases the flexibility and the pressure resistance.

Depending on the nominal diameter or temperature, the products withstand bursting pressures up to 1,000 bar. Serto tests the products rigorously.

For example, a test specimen measuring 150mm in length was exposed to a 24-hour salt spray test and then tempered for 70 hours.

Subsequently, it was bent 100 times a minute in a 46mm radius and then stretched again.

After 17 million cycles, the test was ended. No damages were detected on the test specimen.

This fact is appreciated by plant and machine builders in all industry sectors, as well as racing drivers, who know they can rely on the PTFE brake lines in their racing cars.

**Serto Ltd** – Switzerland  
www.serto.com

## Installation of new extrusion press

Cefival, France, is a subsidiary of the Calvi Group, Italy, a leader in the manufacturing of special steel profiles. Cefival manufactures profiles and rings for aeronautical and nuclear applications.



▲ Cefival manufactures profiles in stainless steels and titanium

The company has installed a new extrusion press that will allow the extrusion of hollow profiles and tubes with highly precise tolerances.

Press productivity had doubled, offering improved product straightness and better eccentricity for hollow products. It also allows a wider product range and optimum working conditions.

In 1999, Calvi took over 51% of the shares of Cefival, alongside shareholder Vallourec. The arrival of the Calvi Group enabled Cefival to begin a campaign of capital investments whilst refocusing company strategy on high added-value products, in particular those for the aeronautical and nuclear sectors.

**Cefival** – France  
commercial@cefival.fr • www.cefival.fr



## GRP pipes and fittings

Superlit Boru San AS, established in 1961, is a manufacturer and exporter in the pipe sector. In its modern factories, equipped with the latest technology and located in Turkey and Romania, the company manufactures pressure/non-pressure glass fibre reinforced polyester (GRP) pipes and fittings (such as elbows, 'Y' branches, tees, flanged ends and reducers), which are used for land and submerged applications in diameters up to 3,500mm.

Superlit produces GRP pipes both with continuous filament winding (CFW) and centrifugal casting (CC) technologies, in full compliance with all national and international standards, with nominal diameter (DN) 300-3,500mm, nominal pressure (PN) 0-40 bar and nominal stiffness (SN) 1,250-10,000 N/m<sup>2</sup> (Pa).

The company's GRP pipes are used for main and distribution lines of potable water systems, sewage and wastewater lines, cooling systems of power stations, submerged pipelines for seawater intake and discharge, hydroelectric power plant lines, rain water infrastructure lines, irrigation, pipe jacking and relining applications.

Since the company's GRP pipe is approximately a quarter the weight of steel pipe and a tenth the weight of concrete pipe, installation is easier and faster. Superlit GRP pipes are characterised by long life (minimum 50 years) and low maintenance costs, do not require cathodic protection, and

▼ *The company's pipes are light in weight, making them easier to install*



show high chemical resistance without any need for additional protection.

Full-face EPDM couplings manufactured by Superlit enable angular deflection up to 3°, allowing change of direction without additional fittings, and guarantee leak proofing under high pressure/vacuum or at gravity. Couplings are not polluted from groundwater and are fully resistant to root intrusion. In addition to manufacturing GRP pipe, Superlit provides services such as consultancy on project design, consultancy and training for job site applications (such as excavation, trench preparation,



▲ *Superlit manufactures glass fibre reinforced polyester pipes*

bedding, etc), and for loading/unloading, pipe laying and repair, and can serve as a turnkey contractor, if required.

**Superlit Boru San AS** – Turkey  
bsirin@superlit.com  
www.superlit.com

## Copper capillary tubes

Feinrohren SpA, Italy, produces copper capillary tubes and copper tubes. The company's copper capillary tubes are used for the production of domestic and industrial refrigerators and air-conditioners, thermostats and thermometers, and are produced according to EN 12450 standard or Feinrohren Technical Specifications, in commercial coils from 30 to 120kg or in straight lengths.



▲ *Capillary tubes from Feinrohren SpA*

The company's new Cosmos product line for copper capillary includes a number of variations. Cosmos Green Cu-DHP copper capillaries for refrigeration and air-conditioning circuits feature guaranteed flow-rate tolerances and internal residues and humidity below 50% of the EN 12450 standard, and provide constant performance for energy savings.

Cosmos Tin provides anti-corrosion external protection, with perfectly concentric tin plating, homogeneous external tin surface, constant tin thickness plating and tin thickness value on demand. Cosmos Zinc is produced with controlled external zinc protection plating, ensuring safety in aggressive environments.

Feinrohren SpA is also a producer of tubes in LWC coils for industrial applications, sanitary tubes and coated copper tubes.

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

## A cool connection

Standard-Metallwerke, Germany, is a specialist in drawing precision and premium tubes in aluminium, copper and brass, with business units for automotive, aerospace, HVAC/R, industry and solar applications.



▲ Standard-Metallwerke S-Cooler

One of the company's recent success stories from intensive engineering work is the S-Cooler, a wire-loop finned cooler, which enables a perfect cooling solution at 360° incident airflow.

Coaxial tubes as a tube-in-tube system are another innovative development. This solution allows a heat exchange between two independent running liquid media to be used in the field of air conditioning and cooling devices, including automotive applications.



◀ Coaxial tubes allow heat exchange between two running liquid media

## Heat exchanger tubes

Sandvik Materials Technology maintains an extensive manufacturing programme for straight heat exchanger tubes to ensure availability on short lead times. Based on popular sizes and material grades, the seamless heat exchanger tube programme covers standard austenitic, duplex and high alloy austenitic stainless steels in addition to titanium and zirconium.

Sandvik's main size range, produced in imperial and metric dimensions, covers 19.05 to 25.4mm, in wall thicknesses from 1.65 to 2.11mm. Available grades include 304L, 316L, 321, 316Ti, Sanicro 228, Sandvik SAF 2205 and Sandvik SAF 2507. Standard straight length for heat exchanger tubes is 6m.



▲ Sandvik heat exchanger tubes are available on short lead times for popular sizes

*"Maintaining an ongoing manufacturing programme for heat exchanger tubes provides us with the ability to supply customers on short lead times where a small number of tubes are required," commented Phil Cherrie of Sandvik. "These are often needed at short notice for maintenance work or to carry out repairs to existing heat exchangers where plant downtime can be a significant issue."*

The company offers a comprehensive range of heat exchanger tubes sizes and material grades, as part of its extensive manufacturing programme, to suit all types of applications from sea water coolers to oil refineries and from chemical to power generation applications. In addition to straight heat exchanger tubes Sandvik can supply both straight and U-tubes as a project package.

Other products in the Sandvik heat exchanger tube supply package include standard stainless steel and special grade complementary products, welded tubes, sheet and plate, tube fittings for butt welding and socket welding, threaded joints and flanges.

**Sandvik Materials Technology – UK**  
[sales.smtuk@sandvik.com](mailto:sales.smtuk@sandvik.com) • [www.smt.sandvik.com/uk](http://www.smt.sandvik.com/uk)



◀ Finned tubes for efficient heat exchange

Adapted to market requirements, the company's finned tubes feature a maximum efficient heat exchange solution. The individually adapted size of ribs support high performance for various applications.

Aluminium tubes are predominantly used for these product applications, due to the demand for lightweight systems, and to support a high requirement of stability.

The company's PA12 coated S-Cot tubes provide protection against corrosion, insulation and mechanical impact protection, making them suitable for use in severe environments. The company has also developed a long-life alloy based on a unique chemical composition for drawn tubes. S-Life is designed to provide high corrosion resistance and outstanding SWAAT-test results.

**Standard-Metallwerke GmbH**  
 – Germany  
[info@standard-metall.de](mailto:info@standard-metall.de)  
[www.standard-metall.com](http://www.standard-metall.com)

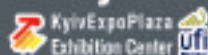
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## Biogas high speed record achievement

An optimised Audi A4-B7 Quattro has set a biogas high speed record on the Papenburg racetrack in Germany.

The car, which was retrofitted with natural gas technology, reached a speed of 327.2km/h (203.2mph).

Swagelok Company fittings and tubing components were used to ensure zero-

leakage performance of the CO<sub>2</sub> neutral biogas system.

Swagelok Company has a track record in the supply of products and services to the alternative fuels industry, supporting the design and production of natural gas vehicles, filling stations, and hydrogen fuel cell technology. The company's components were used in



▲ The Audi A4-B7 Quattro was modified to use natural gas

the recent EcoFuel World Tour, which set a Guinness World Record for the greatest distance travelled by a natural gas vehicle, powered by natural gas fuel bought en route.

The VW Caddy used standard Swagelok Company products, readily available through the company's global sales and service centres.

*"With current climate and economic concerns, alternative fuels are becoming more popular as a viable solution for business and consumer needs alike,"* commented Bernd Beltermann, field engineer at Swagelok Company.



▲ The Audi A4 during the record-breaking attempt

*"Today's record achievement demonstrates that ecology and driving pleasure are indeed complementary. As OEMs roll out their flagship alternative fuel offerings, they can look to Swagelok to provide components they know are reliable and safe."*

The conversion and optimisation of the Audi A4-B7 Quattro car that set the record was a joint project involving partners such as German companies TÜV Rheinland's Competence Centre for Alternative Fuels in Saarbrücken, the tuner Hohenester of Ingolstadt and the Versorgungs- und Verkehrsgesellschaft Saarbrücken.

**Swagelok Europe** – Switzerland  
www.swagelok.com

## Cast iron drainage systems

A new development in the East Midlands is one of the first in the UK to specify the Ensign Eezi-Fit range of cast iron drainage systems from Saint-Gobain Pipelines. Highcross Court is a new build development of 144 luxury flats in five blocks.

Mechanical and electrical consultants for the project, Silcock Dawson & Partners, specified cast iron for the above ground drainage due to its appearance and acoustic performance. Despite pressure to switch to plastic drainage systems because of their perceived lower cost, the benefits of the new Eezi-Fit push-fit range, including its ability to avoid joints in the floor screed, convinced the developers to stay with cast iron.



Saint-Gobain demonstrated the Eezi-Fit product to plumbing contractor Sleaford Building Services, who were impressed by its quality, ease and speed of installation, and environmental advantages over plastic alternatives.

Barry Exton, a director of Sleaford Building Services, commented, *"The Eezi-Fit range incorporates a unique manifold waste connector fitting with an extended bottom connection spigot that, due to its extended length, clears a floor make up/screed of up to 300mm and therefore negates the installation of a joint in the floor constructions, with the obvious issues this has the potential*

▲ Ensign Eezi-Fit drainage systems from Saint-Gobain Pipelines have been used in a new UK housing development

*to cause. We used a large number of these fittings to connect to sanitaryware appliances and a particular benefit was the use of the low level manifold inlets, providing a solution to ensure invert and gradient levels were achieved, even from low outlet shower trays. The fact that the Eezi-Fit components simply push together made for a very fast installation."*

Derrick Brookes of Saint-Gobain Pipelines added, *"Versatility and suitability of the range for both residential and commercial applications is already generating significant interest from specifiers for a number of projects. We believe Eezi-Fit is set to become the range of choice where ease of installation is required without compromise elsewhere."*

Ensign Eezi-Fit is Kitemark approved to BS EN 877 for gravity, sanitary applications and manufactured under BS EN ISO 9001: 2004 quality assurance.

**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, India, is a manufacturer of copper and copper alloy tubes and sections, catering to OEMs, governments and private organisations.

The company offers finished and semi-finished copper and copper alloys tubes, including 90/10 cupro nickel and admiralty brass tubes.

The company can manufacture products according to customer specifications.

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

## Seamless high pressure boiler steel tube

Jiangsu ZhenDa Steel Tube Group was founded in 1991, and has grown into a group of eight subsidiaries, with an annual production capacity of 1,100,000 tons.

The group's 'Hao Ren' products were awarded the Jiangsu Famous Trademark in 2004, while its seamless high pressure boiler steel tube was given the Gold Cup by the National Steel Industrial Association for its good quality. In 2005 the group became the director of the National Association of Pipe Unit.

Wuxi ZhenDa Bearing Steel Tube Co Ltd is one of the subsidiaries of Jiangsu ZhenDa Steel Tube Group.

The company, which was founded in 2004, has a mill covering an area of 70,000m<sup>2</sup>, and an annual production capacity of 100,000 tons.

**Jiangsu ZhenDa Steel Tube Group**  
– China  
xsb@zhendagroup.com  
www.zhendagroup.com

**Wuxi ZhenDa Bearing Steel Tube Co Ltd** – China  
zhenda@zhendagroup.com  
www.zhendagroup.com

## Longitudinally welded steel pipe

Salzgitter Mannesmann Line Pipe (MLP) is a manufacturer of HFI (high frequency induction) longitudinally welded steel pipe, with over 100 years' experience in pipe production.

This includes oil and gas line pipe, pipe for drinking water and sewage systems, tubes for machinery and plant construction, oilfield tubes, pipe for long-distance heating systems and structural tubes.

The company manufactures products in a wide range of steel grades, with outside diameters of 33.7 to 610mm (1.5" to 24") and pipe wall thicknesses of 3.6 to 20.6mm (0.14" to 0.812").



▲ Longitudinally welded steel pipe

The company has also expanded its full range standard programme of coatings and linings, such as PE, PP, (fibre) cement mortar and epoxy lining (flow coat), to ensure the highest possible level of pipeline safety against corrosion and mechanical damage, and to minimise frictional resistance on the inside wall of gas line pipe, by an epoxy resin coating (fusion bonded epoxy FBE) according to ISO 21809-2:2007.

The single-layer coating has a maximum thickness of 700µm and is used for corrosion protection, eg for onshore products. Additional dual-layer coatings are currently under development, which will be applied for special properties, for example as 'FBE rough coating' for an improved frictional resistance or for an enhanced abrasive resistance.

A reference production of the single-layer FBE-coating has been manufactured for E.ON UK. The total length of the coated pipes was approximately 3,000m, with outer diameter of 219.1mm and 323.9mm, and wall thickness from 8 to 20mm.

**Salzgitter Mannesmann Line Pipe GmbH** – Germany  
info@smlp.eu • www.smlp.eu

## Stainless steel seamless and welded tubes from India

Modern Tube Industries Ltd is a manufacturer of stainless steel welded and seamless tubes and pipes, located in the west of India, around 250 miles north of Mumbai.

The company manufactures tubes and pipes to international standards, and has access to quality raw materials, including austenitic and martensitic stainless steel, SS304, 304L, 310, 316, 316L, 201, 202 and 400 series, at short delivery times.

The range of products includes round, square and rectangular shapes.

88.9mm diameter seamless pipes are available in wall thicknesses from 0.8 to 8mm, while 150mm welded (rolled) products range from 0.5 to 4mm wall thickness.

The company produces fabricated tubes in diameters ranging from 200 to 600mm, with wall thickness of 12mm.

The tubes and pipes can be delivered annealed and pickled.

**Modern Tube Industries Ltd** – India  
sales@moderntubes.com  
www.moderntubes.com

## Maximum silence in waste systems

Sanitary fixtures, along with the relative water discharge systems, contribute to the generation of disagreeable noise.

The proper design of waste systems and appropriate technical means help reduce the extent of the problem.

Silere is a soundproof waste system designed by Valsir, consisting of a range of pipes made of a special material that ensures maximum silence in waste systems. The system possesses soundproofing properties that have been confirmed by the Fraunhofer Institut fur Bauphysik in Stuttgart, Germany.



▲ Valsir's Silere soundproof waste system

push-fit connection system, which uses rubber seals, not only reduces installation times, but allows vibrations in the piping system to be reduced. This is not possible with other connection techniques, such as welding.

The soundproofing properties of Silere are the result of several factors, including the particular connection system, the elevated wall thickness and the material employed for the fabrication of the pipes and fittings.

It is known that materials with a large thickness are not easily prone to vibrations, thanks to their elevated moment of inertia.

The material used possesses a polymeric base of copolymer polypropylene, and is therefore impact resistant at low temperatures.

The mineral load, the colourant and the flame retardant additive (class B2 in compliance with DIN 4102) are added to this in suitable percentages.

Silere pipes and fittings are available with external diameters of 58, 78, 90, 110, 135 and 160mm, in lengths from 150 to 5,000mm. Connections can be made with any other type of waste system (cast iron, HDPE, PP, etc) with the use of suitable reducers and special pieces.

The material used to make Silere is acid and alkali resistant, and impedes the formation of scale thanks to smooth internal surfaces. It is heat resistant up to a temperature of 95°C.

Silere is suitable for use wherever acoustic insulation is of fundamental importance, in buildings such as hospitals, hotels, offices, apartments and all areas that need to be protected from noise.

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

In terms of soundproofing, Silere is claimed to exceed cast iron and to be superior to polypropylene. The Silere pipes and fittings are equipped with sockets, with a push-fit connection system that allows a rapid installation.

Another advantage of installation is that no special or expensive tools are required. This factor is important when calculating the total cost of the work and the materials. The

## Stainless steel pipes

Shanghai Baoyuan Iron & Steel Co, Ltd is a subsidiary company of Baosteel Group, and specialises in stainless steel pipes.

The company can supply products made from Baosteel materials including 321, 304, 304L, 309, 309H, 316, 316L, 316Ti, 2205, 2520, 317L, 347, 904L, 310S, GH800, GH3030, 1Cr25Ni20, NCF600, Hastelloy and Monel.

The pipe diameter range is from 3 to 1,220mm and the wall thickness range is 0.2-150mm.

The company can produce pipes of 150m in length (diameter from 3 to 20mm), and can also supply square pipe, rectangular pipe, polished pipe, round steel, plate, coil and fittings.

**Shanghai Baoyuan Iron & Steel Co, Ltd – China**  
info@baoyuansteel.com  
www.baoyuansteel.com

## Stainless steel flexible braiding hose

Hydroflex Pipe Pvt Ltd, India, is a manufacturer and exporter of stainless steel flexible braiding hose ranging from ¼" to 8" in AISI 304, 316, 316L and 321 grades, with any type of mounting fittings as per customers' specifications.

The company manufactures flexible hoses with SS wire braided in type 'B' flex and 'C' flex. 'C' flex is stainless steel annular convoluted hose, a very close pitch hose for a high degree of flexibility and high working pressure, suitable for exacting areas of flexibility and vibration.

Hydroflex is ISO 9001:2000 accredited by Det Norske Veritas (DNV), and its products conform to BS6501 Part I, approved by Germanischer Lloyd.

**Hydroflex Pipe Pvt Ltd – India**  
info@hydroflexpipes.com  
www.hydroflexpipes.com

## Rolling in innovation

Sonatest Ltd has launched its new Wheelprobe™ series of probes, leading the way in ultrasonic transducer innovation. Developed in conjunction with leaders in aerospace technology, with a focus on the increased use of composite materials, the probes enable rapid and intuitive scanning in the testing environment, producing quantitative data on material integrity.

The probes feature a wide, conformable rubber tyre which is acoustically matched to water, allowing near dry contact, and so produce high quality results without the need for couplant or large quantities of water.

The Wheelprobe range includes three models: a single element model, and 50mm and 100mm array versions. Developed to be used in conjunction with the Sonatest Rapidscan series, they are compatible with alternative NDT industry standard equipment.

The 50mm array Wheelprobe is suited to hand scanning of large, flat or slightly

curved parts, covering such areas quickly and efficiently. A central spring-loaded roller ensures consistent contact across the wheel, even when scanning narrow parts.

The Wheelprobe is able to provide high quality, high resolution data due to the incorporated 64 element phased array with 0.8mm resolution and a high resolution positioning encoder.

The 100mm tyre has been constructed for very large area coverage and due to its size is best suited to flat horizontal components, but is also adaptable to curved parts.

Industry sectors where the Wheelprobe may be used include aerospace, automotive, marine and composite manufacturing.

Adaptable for use by individual operators or as part of a scanning system, the



▲ Sonatest's 50mm array Wheelprobe

Wheelprobe is suited to advanced material testing, simplifying testing procedures and preparation where there are common requirements for the ultrasonic inspection of composites for porosity sizing, delaminations, foreign body contamination and fibre wrinkling.

**Sonatest Ltd – UK**  
sales@sonatest.com  
www.sonatest.com

## Feiting Pipe Co., Ltd.



**Established** in 1996, Zhejing Feiting Pipe Co., Ltd. is a professional manufacturer specializing in producing stainless steel and carbon steel (alloy, low temperature & common carbon steel) fittings and flanges with rich technical resources, advanced equipments, high-quality products and satisfactory services.

Production details below:

**BW Fitting :**

Elbow(45°, 90°, 180°, 1D~10D), Tee, Reducer, Cap, Lateral, True "Y", Stub end, etc.

Dimension: 1/2" ~ 104" W. T: 4mm ~ 80mm

**Steel Flange :**

WN flange, SO flange, LJ flange, SW flange, BL flange, Tongue face flange, Loose plate flange, Loose hubbed flange, Orifice flange, Reducing flange, Threaded flange.

Dimension: 1/2" ~ 60" Pressure Rate: 150Lb ~ 2500Lb

**Forging Fitting :**

SW elbow(45°, 90°), Threaded elbow, Weldolet, Coupling, Plug, Nipple, Union.

Dimension: 1/2" ~ 3" Pressure Rate: 3000Lb~9000Lb

**Bend :**

Seamless Bend(45°, 90°, 180°, 3D~10D), Welded Bend (ERW, EFW).

Dimension: 8"~ 48" W. T: 4mm~40mm

**Pipe :**

SMLS steel pipe(SS,CS), Welded steel pipe (ERW, EFW)

We can produce the special fittings according to customer's drawing.

### ZHEJIANG FEITING PIPE CO.,LTD.

Zhejiang add: No.1366 Binjiang Road Economic Development Zone Ruian Zhejiang China

Tel: +86-577-65607592 Fax: +86-577-65600817

P.C: 325200 E-mail: trade@chinafeiting.com

### SHANGHAI FEITING PIPE MANUFACTURE CO.,LTD.

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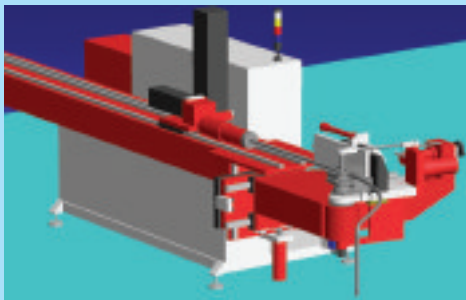
## Bending simulation software

Software from 3R software solutions, Germany, is used extensively in German shipyards such as Blohm + Voss, ThyssenKrupp Marine Systems, the Keppel Group, and Wadan Yards (previously Aker Yards), as well as in the fields of automotive and plant construction, such as Boehringer Ingelheim and Bilfinger-Berger.

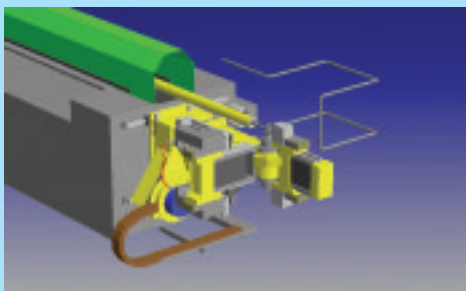
The company's Kolli bending simulation, now in its seventh generation, has become a benchmark for collision testing software, and can be customised to meet most users' demands.

Interfaces are available for most common third party programs, including Tribon™, AutoCAD™, Inventor™, and Unigraphics™, and interfaces to other software can be implemented if necessary.

Rather than requiring a selection from a list of pre-created machine and tool models, which may or may not be appropriate, Kolli 7 includes editor modules for tools, machines and materials.



These allow users to create three-dimensional models of the actual machines and tools used in their pipe shop. Multi-layered tools can be created in minutes, and modifications and extra features of machines can be included when the model of the machine is created.



The material editor makes it possible to take the special properties of different metals into consideration, such as differences in elasticity (springback values).

Isometric display of the tube created by the bending data allows for easy visualisation, and the program independently looks for alternative solutions if a collision occurs during simulation.

▲ 3R's Kolli 7 bending simulation software

In combination with other 3R programs, like the Ramp workshop control system or the RoniCAD construction program, the client can use the advantages of an integrated software framework.

Because every program accesses the same database, there are no compatibility problems. Users will be able to streamline and control the entire fabrication process, from planning and construction to quality control.

Progress of individual jobs can be checked at any point, so that the operator is always aware of the production status of every item.

Each version of Kolli, Ramp, RoniCAD and other 3R programs is customised, ensuring users have the features they need, rather than additional, unnecessary features. This makes 3R programs both easy to learn, and comfortable to operate.

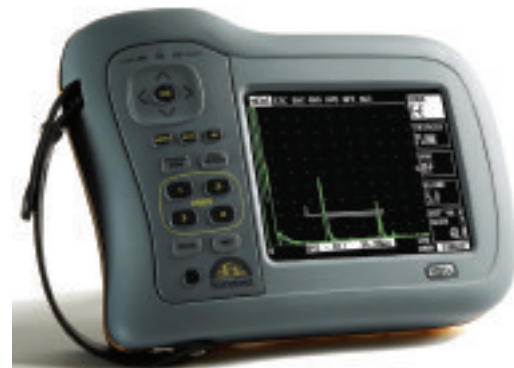
**3R software solutions** – Germany  
info@3-r.de • www.3-r.de

## Lightweight ultrasonic flaw detectors

Sonatest has launched the lightweight and performance-focused Sitiescan D Series ultrasonic flaw detectors, as a result of consultation with operators in the field, R&D investment and application experience.

Whilst delivering high performance and advanced software features, the development team also ensured that the user interface is easy and quick to use.

The Sitiescan D's powerful software and technology is housed in a lightweight and ergonomic case, which has been designed for comfort and day-long use. Display size has not been sacrificed, and the battery life runs at a maximum of 18 hours.



▲ Sonatest's Sitiescan D-10 features a broad-band amplifier

The Sitiescan D also introduces a new menu navigation scroll wheel, giving fast and easy access to functions and enabling single-handed menu changes.

The keypad is further enhanced, with new direct access keys allowing immediate access to essential parameters in the field such as gate control or adjustment, and user buttons which can be assigned to the operator's preferred menu items or actions.

In addition to these performance parameters, Sonatest claims that the Sitiescan D Series is the most flexible flaw detector on the market.



for a wide variety of accessories, such as magnetic hooks, tripod mounts and body harnesses.

The Sitescan D can easily be attached to pipework and metal plates or hung from other fixtures, leaving the operator with both hands free for scanning. Various compatible accessory packs and harnesses are available.

The Sitescan D-10 uses a broad-band amplifier compatible with a wide range of transducers, while the D-20 model uses several narrow bands for improved

performance. The 'analogue feel' from the high quality broad-band amplifier shows all the detail required to identify defect types such as holes or cracks, and sufficient resolution for identifying small signals.

Typical applications are weld inspection, corrosion testing, small castings, forgings and delamination checking.

**Sonatest Ltd** – UK  
sales@sonatest.com  
www.sonatest.com



▲ The new Sitescan D models can be suspended from fixtures for hands-free operation

Robustly constructed and sealed to IP67, further new design features, introduced to make site work easier, make the Sitescan D highly adaptable in the field.

An integrated, adjustable pipe stand enables easy positioning, and a standard built-in camera mount allows



◀ Harnesses are available, for further hand-free options

## WMITC

Tianjin WeiMing Industrial & Trading Co., Ltd.

Wai Ming(Tianjin) International Trading Co., Ltd.

### Products:

- ERW Round Pipe
- Seamless Steel Pipe
- LTZ Profile
- Scaffold System
- Greenhouse System
- Prestressed Concrete Wire & Strand
- Steel Strip & Coil - (Hot rolled; Cold rolled; Bright annealed; Black annealed; Galvanized ; Pre-painted)
- Hot Rolled Steel Products - (Deformed Steel Bar; Angle Steel; Flat bar)
- Galvanized Steel Stud
- UPVC Pipe
- Plastic Profile for Doors and Windows
- Solar Water heater - (Evacuated tube; Evacuated heat pipe solar collector; Mono-crystalline solar panel/module; Multi-crystalline solar panels/module; Solar street light/lamp; Solar lawn lamp; Solar pest killer; Solar water heating project; Off-grid solar power system)
- Equipments - (Slitting unit; High frequency tube welder; Three-stand continuous rolling mill; Reversing mill; Straightening and cutting machine for wire rod)
- And so on.
- Square/Rectangular Tube
- Ductile Cast Iron Pipe
- Spiral Welded Pipe
- Fence

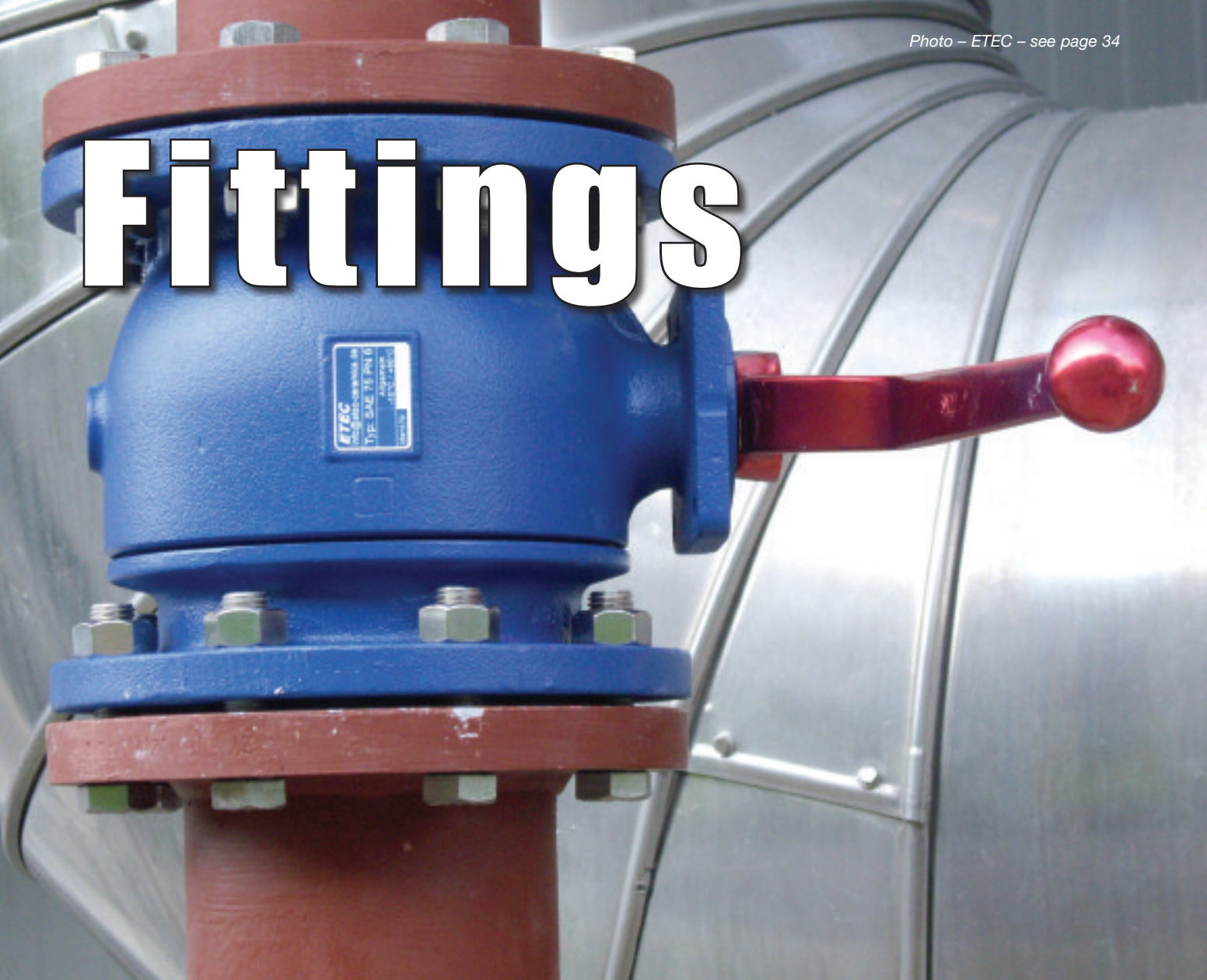
No. 2409, Tianxing River Front Square, No. 81-11Jing Road Hedong District, Tianjin, China P.C.: 300171

TEL: +86-22-24109362, 24109310 FAX: +86-22-24152385

Http: www.wmitc.com , wmitc.en.alibaba.com

E-mail: waiming14@wmitc.com

# Fittings



## 'Seamless supply' stainless steel butt weld fittings

Stock Services is a new organisation that aims to be an integral part of the supply chain of support for tubular distributors, offering one-stop purchasing for its customers.

A large investment has been made in seamless stainless steel butt weld fittings to help clients achieve their aims.

To achieve the service levels and competitively priced products demanded by the distribution industry, and to offer 'seamless supply' for its clients, Stock Services has made considerable investment in the latest logistics IT technology, marketing expertise and international procurement.

The UK stock based in Birmingham is also supported by the manufacturer's

stock, estimated at £1.6 million. The company's website shows real-time stock, enabling clients to make purchases through the Internet.

Stock Services represents Lixue Steel Pipe Company Limited China. Both companies are approved by Lloyds Register of Shipping, with appropriate quality assurance standard ISO 9001.

All products conform to European Pressure Directive 97/23/EC.

The company's policy is to offer a seamless supply to the UK and European distribution sector, helping to eliminate supply problems for its customers.

**Stock Services – UK**  
info@stockservices.co.uk  
www.stockservices.co.uk

## Flow-stopping a 630mm gas main

UPLUS, the field installation team from Radius Systems (formerly Uponor), working in partnership with Flowstop Services, has successfully carried out what it believes to be a 'world first', in isolating a damaged 630mm polyethylene city centre gas main.

The project provided an effective flow-stop solution for the SDR 21 ProFuse polyethylene gas main, when part of the pipe was damaged by a mechanical excavator.

Supplies downstream were uninterrupted, and repairs were carried out using an inflatable bag system developed by ALH-Systems and saddle technologies developed by Radius Systems.

Traditionally, this technique had been restricted to 315mm pipe diameters, so

the operation represented a step change in the acceptance of this technology, providing a practical and cost-effective solution at large diameters to ease the process of making repairs and new connections to gas distribution systems.

UPLUS offers a full service for flow-stopping gas mains, including fitting access saddles and providing and deploying flow-stop bags.

UPLUS is also able to cut out a length of isolated pipe, connect and commission a replacement piece, and tee or cap it as required.

Flow-stopping provides a viable alternative to squeeze-off techniques for large diameter mains, reducing the size of the excavation needed, and improving the streetworks management environment.

**Radius Systems Limited** – UK  
 enquiries@radius-systems.co.uk  
 www.radius-systems.co.uk

## Fittings from carbon, alloy and stainless steel

Weifang Huoda Pipe Fitting Co, China, is a manufacturer and supplier of pipe fittings, including elbows, tees, reducers, pipe caps and flanges.

The company's products, made from materials including carbon steel, alloy steel and stainless steel, are designed and manufactured to conform to the standards of API, ANSI, JIS, BS and DIN.

The company can also supply specific products according to customers' requirements.

Weifang Huoda has established business relationships with worldwide customers, especially from Europe and the Middle East, and has good knowledge of the Chinese markets.

**Huoda Pipe Fitting Manufacture Co, Ltd** – China  
 elbow@pipe-fitting.net  
 www.pipe-fitting.net

## Check valves

The patented WaStop valve developed by Wapro AB, Sweden, is a simple, reliable solution in non-return valves.

WaStop can be installed as protection against basement flooding in residential and commercial buildings. As a check valve in sewage and storm water drains, WaStop effectively stops backflow. The valve can even function as an odour stopper in sewage systems.



▲ The WaStop check valve from Wapro can be installed quickly and easily

WaStop is an elastomer check valve containing only two parts – a sleeve and a pipe. The valve is completely free from obstruction between the inlet and outlet and has no mechanical parts, seats or balls to cause problems.

It has very low damping qualities, opening with only a few centimetres of water pressure. WaStop is self-cleaning, requiring minimal maintenance.

The valve is available in dimensions from DN75 to DN1200, and installation is simple, even in existing pipes and chambers. An installation example can be found in Hunstanton, UK. Hunstanton has a long tradition for having unpredictable and severe tides.

Directly in the path of these tidal surges from the North Sea was a long sea outfall that was fitted with a cast iron flap valve.

When this flap valve failed, the answer was to install a 700mm WaStop directly into the end of the outfall.

The installation took less than two hours. With the WaStop installed within the existing outfall, very little of its profile is exposed to lateral wave action, unlike the flap valve.

Wapro AB is currently expanding its export market as interest for its products grows. Products are currently sold in Scandinavia, UK, Italy, Austria, Germany, Poland, USA, Canada and Switzerland.

**Wapro AB** – Sweden  
 wapro@wapro.se • www.wapro.se

## Awards for ETEC's ball valve and compact bend

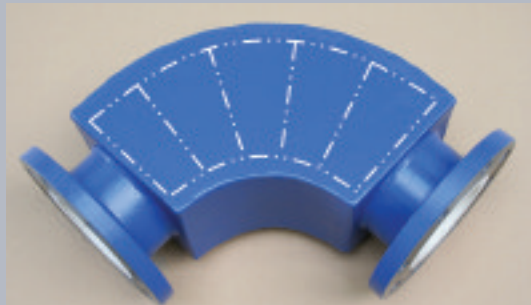
Two innovative products from ETEC, Germany, have been honoured in the 'Materialica Design & Technology Award 2008'.

The company's ceramic/steel ball valve and compact bend were both selected for the special award, with the compact bend also being selected for the CO<sub>2</sub> efficiency award – the first time this category has been awarded.

The awards ceremony was held during the Materialica Exhibition, an international trade show for materials and applications, surfaces and product engineering, which took place in Munich in October 2008.



▲ ETEC's ceramic/steel ball valve in operation in a power station



▲ The compact bend allows considerable reduction of energy costs

ETEC's new ball valve is manufactured using a combination of high-quality materials, selected for their specific advantages.

Previously, valve balls in tube systems protected from wear were made of just one material, mostly steel or ceramics.

While a steel version tends to be more susceptible to wear, a full ceramic version has the disadvantage of being brittle, and since it has to absorb the driving power of the valve ball, there is a risk of breakage.

ETEC developed a valve ball with a special material combination: although the body is made of steel, the clearance hole is protected by a casing made of wear-resistant, high-performance Alotec ceramics.

The steel component absorbs the driving power, while the ceramic lining (which also protects the adjacent passage area of the ball valve and the complete system) ensures efficient wear protection and helps reduce costs.

There are an increasing number of public discussions about climate change and CO<sub>2</sub> emissions. Specific materials and light construction technologies can help reduce CO<sub>2</sub> emissions.

ETEC's compact bend, which features an interior lining made of high-performance Alotec® ceramics, is capable of following the uniform cross-section of the total system, even in extremely narrow radii. As a result, less air pressure is required in comparison with impact absorbers generally used, reducing energy demand.

**ETEC** – Germany  
[www.etc-ceramics.com](http://www.etc-ceramics.com)

## New website for industrial valve business

Wolseley UK is a subsidiary of Wolseley plc, a specialist trade distributor of plumbing and heating products to professional contractors and a supplier of building materials in North America, the UK and Continental Europe.

Pipe Center, the company's pipe distributor, has launched a new website for its specialist industrial valve business, Valvestock.

Pipe Center is a supplier to mechanical services and plant engineers, offering expertise in tube valves and fittings in steel, plastic, copper, stainless steel and commercial/industrial heating and air conditioning equipment. The company has 89 branches throughout the UK.

The new website is part of Pipe Center's plans to develop Valvestock, with investment in additional technical equipment also planned.

The Valvestock website, [www.valvestock.co.uk](http://www.valvestock.co.uk), highlights the broad range of products available, with comprehensive data sheets which can be downloaded.

Users are able to locate specific products quickly and easily, and also see examples and case studies of bespoke actuated valves designed and engineered by the company.

Valvestock general manager William Woodward commented, "We are excited to launch this website which promotes our technical expertise and capabilities. Providing bespoke valves and controls which offer tailored solutions to our customers is integral to our business, and we have therefore included a dedicated section on the website which highlights our expertise in this field."

**Wolseley** – UK  
[customerservices@wolseley.co.uk](mailto:customerservices@wolseley.co.uk)  
[www.wolseley.co.uk](http://www.wolseley.co.uk)

**Pipe Center** – UK  
[www.pipecenter.co.uk](http://www.pipecenter.co.uk)

**Valvestock** – UK  
[www.valvestock.co.uk](http://www.valvestock.co.uk)

## Double block and bleed valve

A custom compact double block and bleed valve from Parker Instrumentation is helping to reduce the size and weight of a groundbreaking skid produced for the Chevron Tahiti platform in the Gulf of Mexico.

Built by Test Automation & Controls, the equipment is believed to be the largest chemical injection skid ever produced, and has been designed to operate at 15,000 PSI, to withstand the pressures required for operations in the Tahiti field's deep, sub-salt reservoirs. Parker's integrated valve provides a 15,000 PSI rated double block and bleed function.

At this operating pressure, such valve configurations are usually constructed using discrete components, involving a large amount of space, extensive weight, and a large number of potential leak paths.

The number of components is often made higher because the cone and thread interfaces used to make connections at these pressures are usually fitted with an additional anti-vibration accessory, to combat the common issue of vibration-induced problems associated with threaded connections. To simplify the project, Parker Instrumentation suggested an updated version of its single-piece 10,000 PSI

double block and bleed manifold, fitted with the company's unique 15,000 PSI rated MPI compression tube fittings.

The resulting manifold is estimated to have reduced the mounting space and weight budgets by around 50%, and replaces around nine individual components (three valves and six anti-vibration glands), greatly reducing potential leak paths. *"The size and weight reductions contributed by this manifold have helped to reduce the topside equipment budget,"* commented Kevin Burke of Parker Instrumentation. *"The manifold also helps to eliminate threaded connections, a common source of reliability problems."*

Parker Instrumentation is part of the Parker Hannifin group, a diversified manufacturer of motion and control technologies and systems, providing precision-engineered solutions for a wide variety of commercial, mobile, industrial and aerospace markets.

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

**Parker Hannifin Middle East**  
– United Arab Emirates  
mamin@parker.com  
www.parker.com

## Seamless steel pipe fittings

Unifit Boru Baglanti is a manufacturer and wholesaler of seamless steel pipe fittings and flanges.

Using state-of-the-art technology and experienced staff, the company manufactures Unifit branded products with high quality standards. Once established in the domestic market, the company extended its activities abroad, and currently exports to Europe and the Middle East.

Unifit's production activities occupy a 6,000m<sup>2</sup> area, with nearby highways and cargo ports, giving the company a logistical advantage.

The company is based in Turkey, which is a member of the European Customs Union and in negotiations for permanent membership of the European Union.

Sister company Burak Boru, a seamless carbon steel stockist, supplies all of Unifit's product ranges. Occupying a leading position in the sector of seamless steel pipe trading with its stock and sales volume, the company supports many industrial sectors, such as automotive, HVAC installations, construction, and naval architecture.

With the basic principle of covering material demands based on dimensions, quality, and quantity on time, the company determines its stock policy according to customer requests.

The company has a 45,000m<sup>2</sup> stocking area, with stock capacity of 30,000 tons.

All materials supplied by Burak Boru are tested in the manufacturing factory and are certificated according to EN, DIN, ASTM, API and GOST standards.

The company has a quality management system, and has been certified to ISO 9001:2000.

**Unifit Boru Baglanti – Turkey**  
info@unifitfittings.com  
www.unifitfittings.com

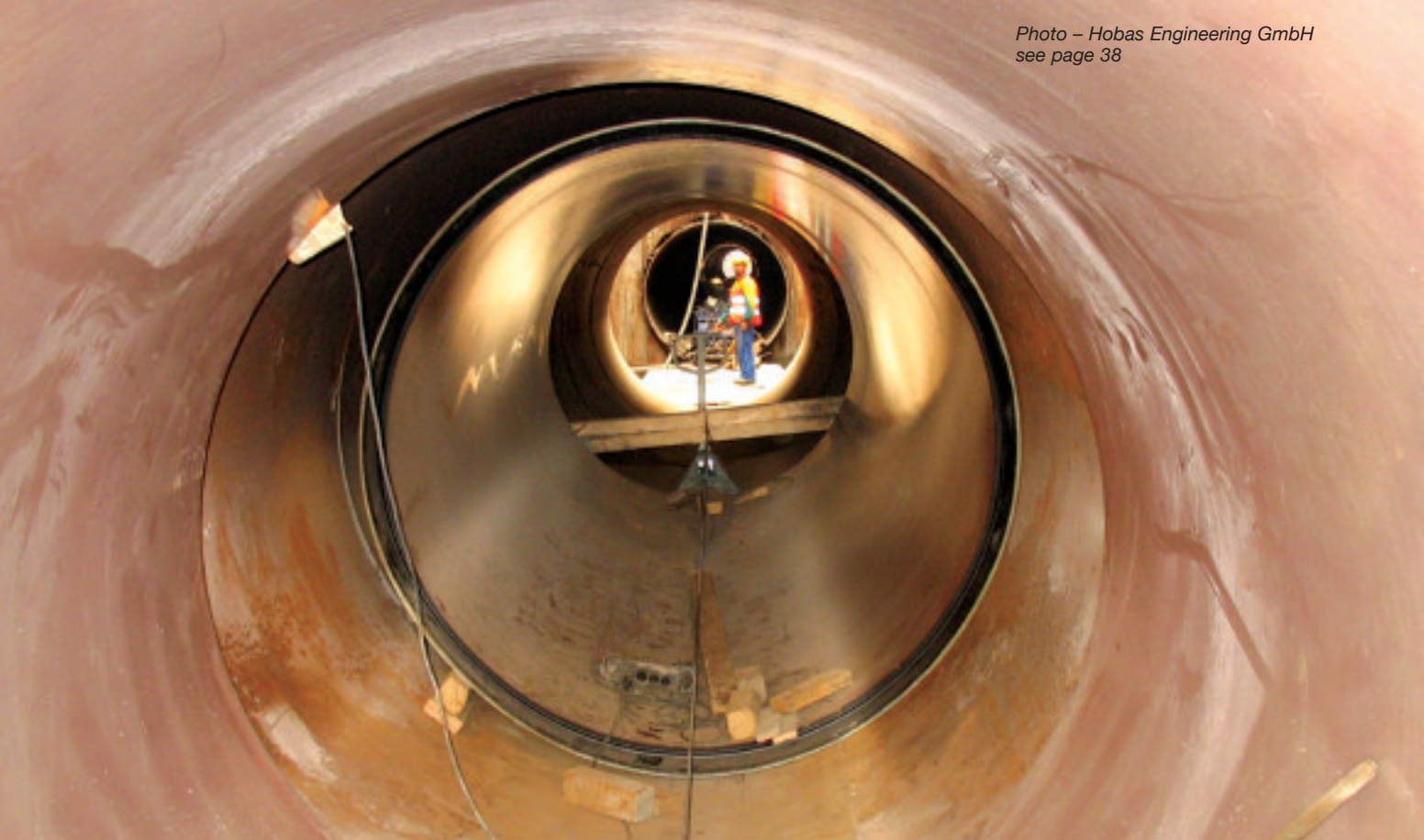
**Burak Boru – Turkey**  
info@burakboru.com  
www.burakboru.com

## Electrofusion fittings

Radius Systems (formerly Uponor) has developed a technologically advanced electrofusion fitting designed to bring time and cost savings to water service connection operations. The QuickTEE features an integrated socket that provides a rapid, single weld, service connection from water main to service pipe, saving at least three minutes in fitting time per connection. By reducing the number of joints in the system, the QuickTEE improves overall integrity as well as reducing the number of parts required on-site (and in the supply chain), by integrating all fittings needed for the service connection into one part. The base of the QuickTEE uses Radius Systems' Unifit range rated technology, making each fitting capable of working on more than one pipe size.

A built-in clamp mechanism secures the service pipe in place during the fusion cycle, removing the need for service pipe clamp tools. In trials these integrated clamps proved popular with installers, ensuring easy compliance with industry work procedures. QuickTEE service fittings are now being made available in the UK following a period of trial evaluation by leading water utilities. Installation of the fittings requires no additional training or any new tooling.

**Radius Systems Limited – UK**  
sales@radius-systems.co.uk • www.radius-systems.co.uk



# Water and Gas products

No one needs to be persuaded of the importance of the fixtures that join water and gas pipes. It has been said that an ordinary domestic water leak could have been prevented for less than 1% of the cost to repair the ensuing damage. In the case of a gas leak — just as vexatious and time-consuming, and very possibly deadly — the cost can be incalculable.

In both instances — once the tubing has been checked for damage, and exonerated — the problem will almost certainly be found to lie with the flanged connection. Except perhaps in medical or pharmaceutical practice, no other small device will carry such a freight of responsibility in service and blame if serviceability breaks down. We say “if,” rather than “when,” for breakdown is a rare occurrence in a sector notable for the highest engineering standards.

An industry primer on the prevention of gas leaks from flange connections provides an indication of the professionalism in this area. It begins with instruction in keeping flanges parallel and in contact with gaskets. Many pages later, it concludes with an appeal for the establishment of mandatory, standardised training in the fitting and tightening of flange connections and mechanical couplings in piping systems; and a proposal for a certificate-issuance programme with courses and accreditation independent of tool suppliers. In between, it covers everything from specification, selection, and deviation to the vital necessity of routines for calibrating hydraulically-operated tightening equipment at regular intervals.

The exceptional integrity of fittings for gas and water applications — including the products featured in this section of Tube Products INTERNATIONAL — rests on a very secure base.

## Pipe fusion experts

Founded in 1954, McElroy Manufacturing has grown from a two-person start-up in an Oklahoma garage, to an international leader in the science of joining thermoplastic pipe.

The company produces reliable, efficient, rugged and technically advanced fusion equipment, and holds many US and foreign patents on fusion-related equipment.

*"There is a real need for premium fusion equipment and solutions that address the needs for increased productivity in wide varieties of rugged field conditions,"* said Chip McElroy, chief executive officer of McElroy Manufacturing.

*"Infrastructure industries from gas distribution, mining, energy, water and wastewater are all looking for more cost-effective solutions that reduce their cost of construction. This is where McElroy thrives."*



▲ McElroy Manufacturing's TracStar

With a complete range of fusion equipment, including PitBulls, TracStars and its original wheeled units, McElroy has a polyethylene pipe fusion machine for every pipe size from ½" CTS to 1,600mm. Specialised equipment, such as the McElroy's SideWinder, HotTap and Socket Tooling, handle unique applications important to some job sites.

McElroy also produces a wide array of productivity enhancing equipment, such as the PolyHorse, PolyPorter and LineTamer. The company has an extensive worldwide distribution network, and can provide on-site training.

**McElroy Manufacturing – USA**  
fusion@mcelroy.com  
www.mcelroy.com

## Large N-pumps

ITT Water & Wastewater, UK, is a provider of products, systems and processes to move, control and treat water, wastewater and other fluids. The company's four key product brands are Flygt, Sanitaire, Wedeco and Leopold.

Flygt specialises in heavy duty pumping and mixing technology.

The company has extended its Flygt N-pump range of efficient wastewater pumps, with the introduction of larger pumps – up to 300kW – suited to heavy duty applications such as pumping 'raw', unscreened wastewater.

The large centrifugal pumps have self-cleaning impellers, reducing the risk of them being blocked. This is an important feature in high volume, raw wastewater pumping applications.

Steve Gilbert, market manager – municipal transportation for ITT Water & Wastewater, said, *"The non-clogging properties of the Flygt N-pump reduce service call-outs, help keep maintenance costs down and ensure pumps continue to run efficiently over long service periods. These are all important considerations for water companies. There has been a definite need for a clog-resistant pump in these larger sizes."*

While the pumps are fully submersible, they can be installed vertically dry and are also able to operate within explosive and flammable environments when fitted with the 'Ex' version of the drive unit. Existing Flygt units can be retrofitted to the Flygt 'N' impeller.

In the UK and Ireland, ITT Flygt also provides rental, monitoring and control, and aftermarket services as part of its total solutions portfolio.

**ITT Water & Wastewater UK Ltd – UK**  
sales@flygt.co.uk • www.ittwww.co.uk



▲ Flygt has expanded its range of N-pumps to accommodate more heavy duty applications

## Steel pipes from China

Ningbo Zhehua Heavy Steel Pipe Manufacturing Co Ltd, a subsidiary of Shanghai Huaye Iron & Steel Group Co Ltd, specialises in producing various types of steel pipes.

The company, established in 2004, is equipped with Lincoln internal and external Fronious welders from America, and tube coiling machines of specification 30x3,000, 12x6,000 and 12x2,000. The company is focused on the production of SAWH of 219-3,420mm diameter, in thicknesses from

6 to 25mm, with an annual production capacity of 200,000 tons.

The products are used in common pressure pipelines used to supply and withdraw water, gas and oil pipelines, large bridges, ports, and pipes used for piling in municipal construction.

**Ningbo Zhehua Heavy Steel Pipe Manufacturing Co Ltd – China**  
nb@cnhuaye.com  
www.zhehua.com.cn

## Trenchless rehab and extension

In 2004, the city of Bratislava, Slovakia, started to redevelop the area near the railway station in the Nove Mesto district. Two administrative buildings were established, and two further significant constructions are planned.



▲ *Trenchless installation was used, due to the limited space on-site*

These developments, as well as the growing urban population, required a revaluation of the existing sewer capacity.

The Water Company of Bratislava, in charge of finding the solution, decided to reconstruct and to extend the existing waste water system.

The company proposed to have the old DN2600/1650 concrete pipeline cleaned, and recommended its rehabilitation with Hobas® CC-GRP SewerLine® Systems DN 1400. Hobas products were chosen due to their hydraulic performance, the proven leak tightness of the system and the relatively low weight of even large profiles.

In order to extend the network's capacity, the Water Company of

Bratislava decided to build a second line running along the same route and functioning as twin system. Calculations by the project team showed that Hobas CC-GRP Pipes DN 2000 would accommodate future demands.

Due to the limited space on-site, the installation was trenchless, in tunnels of 1.3km in length.

Steel frames were used in these tunnels and, as a first step, steel host pipes DN 2300 were installed, into which Hobas CC-GRP Pipes DN 2000 were inserted. The tunnels were prepared with non-mechanised and semi-mechanised drill heads, as well as by classic mining. The drilling sections were between 100 and 145m in length. The next step was to grout the gap between the host pipe and CC-GRP Pipe with suitable materials.



▲ *Hobas CC-GRP Sliplining and Jacking Pipes are easily assembled due to their light weight and simple, leak-tight flush couplings*

The project was completed with 36 Hobas CC-GRP Shafts, to provide a sewer system that is leak-tight at every point. Helped by the ease of installation and uncomplicated handling of the Hobas products, the construction company Skanska BS as Prievidza was able to complete the project within 11 months. 2.5km of Hobas CC-GRP SewerLine systems, including shafts and fittings worth €1.4 million, were successfully installed.

**Hobas Engineering GmbH** – Austria  
info@hobas.com • www.hobas.com

## High temperature cleaning of steam lines

The smallest of dirt particles can do substantial damage to the blades of a steam turbine. For this reason, a thorough cleaning of the high pressure steam lines feeding the turbine is imperative before a new installation is commissioned. This high pressure pump control application may also be of interest to engineers in the water sector.

The cleaning is achieved by blowing and thermally cycling the steam lines with superheated steam, which cleans out all the debris left during the construction process. Welding scale, swarf, nuts, bolts and general detritus left after lines have been welded might be expected. In fact, much more substantial solids are frequently flushed out during the cleaning process, including welding rods. According to Steve Smith, operations manager of SABSCO, blocks of wood, tools and even a lump hammer have been encountered.

Steam and Air Blowing Service Co (SABSCO) Ltd is a specialist in the cleaning of steam lines, and has provided this service throughout the petrochemical and power generation industries, especially where steam turbines form an integral part of process. Cleaning is fastidious, to the point where a highly polished, mirror-finished 'target plate' is positioned within the steam lines and when removed is microscopically inspected for signs of 'impacts'. A typical specification is no more than 4 impacts, not greater than 0.1mm, being present on the target plate.

On a recent ethylene plant project in Saudi Arabia, where the ambient temperature is frequently over 45°C, SABSCO aimed to reduce the unacceptably long thermal cycling time. The solution was to inject 20 tonnes of ambient temperature demineralised water per hour into the steam lines at pressures up to 28 bar, to provide accelerated quenching and to reduce the overall cleaning cycle time.

For reliability and redundancy in this hostile environment, this required two 30kW centrifugal pumps with a 30m lift,





▲ Two 30kW high pressure pumps, plus control panel

feeding into a single manifold. Simple DOL or star-delta starting was out of the question, as a 20 second start-up period was necessary to enable the connecting pipe work to be monitored for minor leakages during start-up and to facilitate a rapid and controlled shut-down if necessary. To enable the necessary degree of control, SABSCO selected two Softstart 58-400-0-S soft-start units, which were used to control the two high pressure pumps.

The pump system needed to be built as a portable rig due to the nature of the work undertaken. The soft-start units were supplied built into a control panel, also supplied by Softstart UK Ltd, which contained additional motor control equipment. According to Mr Smith, *"I have used products from Softstart UK on many occasions over the past few years and knew they could deliver. The equipment has proved to be reliable and rugged, which is exactly what we need in the environments in which we work. Quality of service from enquiry to after-sales is very high on our list of priorities, and we continue to experience this from Softstart. This new and now proven technique has given us and our client clear schedule benefits."*

**Softstart UK Ltd** – UK  
sales@softstartuk.com  
www.softstartuk.com

**SABSCO Ltd** – UK  
www.sabsc.com

## Seamless stainless steel pipes from Shanghai Shangshang

Shanghai Shangshang Stainless Steel Pipe Co Ltd is a civil joint-stock enterprise, jointly invested and founded by Zhejiang Yongshang Stainless Steel Industrial Co Ltd, along with other partners.

The manufacturer specialises in stainless steel seamless pipes and tubes, and special pipes for petroleum, natural gas

and other industrial purposes. Founded in 2001, the company owns factory buildings covering an area of more than 80,000m<sup>2</sup>, with total floor area as large as 50,000m<sup>2</sup>.

**Shanghai Shangshang Stainless Steel Pipe Co Ltd** – China  
sale@shangshang.com.cn  
www.shangshang.com.cn

## Cast iron drainage system used in student accommodation development

The versatility of the Ensign cast iron drainage system from Saint-Gobain Pipelines has resulted in its specification for a major new student accommodation development in Manchester, UK.

The Plymouth Grove development, built by Browns Construction in the city's Longsight area, is home for up to 465 students in en suite rooms, in 10 blocks of up to 12 storeys each.

Mechanical and electrical consultant firm Foreman Roberts was keen to ensure a robust drainage system that could not easily be damaged.

A further consideration was the 'pod' style en suite bathrooms with the shower at the lowest point, which ideally needed a drainage system that could easily link to the outlet pipes from both the shower and the toilet.



▲ Saint-Gobain's Ensign drainage system features tail branches long enough to pass through floor slabs without connections

Foreman Roberts specified the Saint-Gobain Pipelines Ensign product – the only cast iron drainage system accredited to the BS EN 877 standard.

The range includes tail branches long enough to be passed through floor slabs without the need for connections, and with up to four boss connections to which both the shower and toilet outlet pipes could be fitted, making them suitable for the bathroom pods at Plymouth Grove.

The installation, by Liverpool-based The Strong Group Ltd, took place over a period of nearly a year as the site developed. Ryan Spencer, associate director at The Strong Group, commented, *"The Ensign range was perfect for this installation due to its robustness, durability, fire resistance and its flexibility to cope with the requirements of the bathroom pods, and the long tail branches with their choice of boss connections negated the need for joints in the floor slab. This project is an indication of how the sector sees cast iron as a high-quality, premium product offering performance and cost benefits over the competition."*

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

## Steel pipes for petroleum and natural gas

Kunshan Pearl Machinery Industry Co Ltd is a manufacturer of products including steel pipes and aluminium rims. The company's steel pipes are widely used in applications such as petroleum, chemical industry, natural gas and construction projects, while its aluminium rims are used in the bicycle industries of Japan, Europe and America.

The company's products meet standards including GB/T 9711.1-1997, GB/T3091-2001, API 5L, ASTM A53, JIS and API, and are exported to western countries, the Middle East and South East Asia.

**Kunshan Pearl Machinery Industry Co Ltd** – China  
[www.femco.com.cn](http://www.femco.com.cn)

## Supplying new hospital with pre-fabricated pipe

Pipe Center, part of the Wolseley group, is a supplier to mechanical services and plant engineers, offering expertise in pipe fabrication and tube, valves and fittings in steel, plastic, copper, stainless steel and commercial/industrial heating and air conditioning equipment.

The company has 89 branches throughout the UK.

The company's specialist fabrication centre in West Horndon, Essex, has supplied pre-fabricated pipe to the new acute hospital in Derby. Pipe Center supplied pre-fabricated carbon steel pipework, from 65NB to 300NB, for the heating and chilled water systems in the new 'super-hospital', which brings together Derby's acute health services at Derby City General Hospital's existing site.



▲ Derby's new 'super-hospital'

Terry Reeve, manager of Pipe Center's specialist fabrication operation, commented, "We are the only national pipe distributor in the UK offering this specialist technical service, and are delighted to supply Hiltons and Skanska for this prestigious new build. The benefits of using pre-fabricated products for a project of this scale are vast, from helping achieve tight timescales in the construction of the building, to reducing the health and safety risks associated with manufacturing the equipment on-site. Importantly, we also have highly skilled, experienced welders working on the project, who are coded class one to all UK and European standards, removing the expensive need for sourcing skilled labour on-site."

The new hospital is being built in two phases. The first completed phase, including the Kings Treatment Centre, new education building and approximately half of the 95,000m<sup>2</sup> acute hospital building, was handed over to Derby Hospitals NHS Foundation Trust on schedule in 2006. The second phase will be completed in late 2009. This will bring together all the specialist services onto to a single main site.

**Wolseley** – UK  
[customerservices@wolseley.co.uk](mailto:customerservices@wolseley.co.uk) • [www.wolseley.co.uk](http://www.wolseley.co.uk)

**Pipe Center** – UK  
[www.pipecenter.co.uk](http://www.pipecenter.co.uk)

## Multi-layer push-fit system

Valsir, Italy, offers technologically advanced products for the plumbing and heating market. The company's new Triplus multi-layer push-fit system was designed to satisfy new and diversified installation requirements with particular attention to soundproofing characteristics. The system has an elevated impact resistance, both at low and high temperatures.



▲ A selection of products from Valsir's HDPE range

Triplus combines a number of advantages in one solution: resistance to a wide range of chemical compounds, even at elevated temperatures; connection system with single-lipped pre-fitted seal; and good soundproofing characteristics – with flows of 2 l/s the noise levels are 12 dB(A).

The pipes are available in various lengths with single and double sockets, reducing waste to a minimum. The Triplus pipe is composed of three layers: an internal and external layer in co-polymer polypropylene PP, with an intermediate layer in polypropylene PP with inert mineral loads.

The Valsir range also includes installation systems and flush cisterns, available in various models – external, close-coupled and in-wall. Other Valsir products include an HDPE waste system, a polypropylene (PP) grey push-fit, flame-retardant waste system, a water supply system (Pexal), a complete range of fittings in PPSU (Pexal Easy), traps in HDPE and PP, and a radiant floor heating system in compliance with the European Standard EN1264. Valsir has obtained certification from Det Norske Veritas (DNV), the international certification institute for quality systems, as well as over 130 product approvals in countries around the world.

**Valsir SpA** – Italy  
[valsir@valsir.it](mailto:valsir@valsir.it)  
[www.valsir.it](http://www.valsir.it)

**TPI** is India's largest manufacturer of welded Precision Tubes with a capacity of 1,75,000 Tonnes per annum. TPI has integrated its operations to provide a wide range of tubes for automotive applications, energy equipments (boilers & air heaters), construction and textile industry. With a team of application specialist and a strong research & design center coupled with robust processes evolved over a period of fifty years, TPI is truly an end to end solution provider of tubes.

#### **Wide Range of products across applications**

- Outer Diameter 6 mm - 158 mm
- Wall Thickness 0.6 mm - 8 mm
- Strength levels 300 MPA - 1800 MPA
- Tailor made Profiles as per customer requirement

#### **Innovative Tubular Component**

TPI offers Innovative Tubular Component solutions reducing 20-50 % weight without compromising performance, with strength ranging upto 1800 MPA

#### **Global Reach**

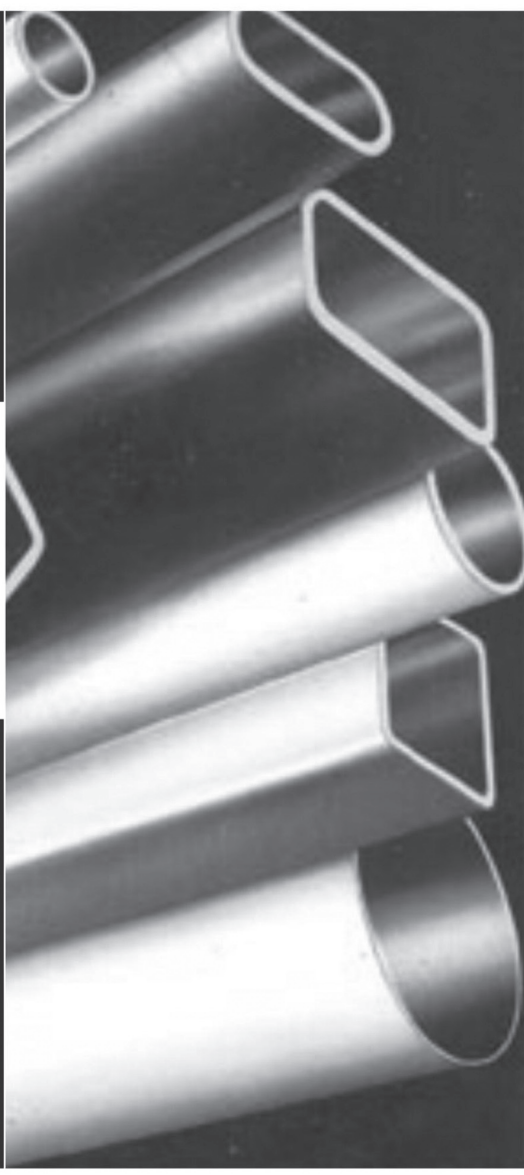
With five manufacturing facilities including one in China and a sales and service support across the world, we are uniquely placed to produce and service globally.

#### **Globally approved Vendor**

TPI is a globally approved vendor to Auto OEMs, Tier 1 & Tier 2 Auto ancillaries.

**Materials Research & Engineering Design**

**World class Testing & Validation**



**Application focused Marketing**

**Robust process for world class quality & delivery**



**I N D I A**

# **Tube Products of India**

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email: [tube@tii.murugappa.com](mailto:tube@tii.murugappa.com), visit us at: [www.tiindia.com](http://www.tiindia.com)  
Tel : 044 - 4229 1601, Fax: 044 - 4229 1699



# Construction and Building

*Photo – Saint-Gobain Pipelines – see page 44*

Asked to name the most valuable product in the building trades, a construction engineer would probably insist on naming two: hollow structural sections (HSS), and mechanical or “as-welded” tubing.

The selections are unarguable. HSS is the high-strength welded steel tubing that provides the weight-bearing element in construction. Similarly useful is mechanical tubing, which offers a cost-effective commodity for a wide range of building applications — little or no additional processing needed. This workhorse of the construction industry is produced in squares, rectangles, and rounds in a wide range of sizes and within close tolerances. Between them, these two go far toward ensuring strength and stability, without which every other feature of a structure would be rendered irrelevant.

Even as it was becoming apparent that exposed structural tubing would increasingly require painting or powder coating, surface-critical tubing was already available. When prefabricated pedestrian bridges with spans to 80 feet called for high strength with absolute corrosion resistance, low-alloy Corten weathering tubing was there.

As-welded and HSS are the gold standard in construction engineering, and they can be expected to hold the position into the foreseeable future. But, in the highly competitive tube and pipe industry of 2009, all makers of tubing products for building are aware of the unremitting necessity to anticipate the requirements of their sector. Meeting those requirements is their pride as well as their profession.

## Pipe Center launches new modularisation service

Pipe Center, part of the Wolseley group, has become the UK's first construction materials distributor to launch a modular engineering service, meeting the growing demand for off-site manufacture.

Pipe Center Modular Engineering will operate from a bespoke 30,000ft<sup>2</sup> factory in Worcester, UK.

Modularisation involves the design and manufacture of pre-fabricated, multi-service modules, which feature various components such as pipework, electrics and ductwork.

The new operation is headed by general manager Bob Hughes, who has more than 35 years' industry experience and a track record in modularisation, most recently with Balfour Kilpatrick.

Pipe Center sales director Scott Craig commented, "Pipe Center Modular Engineering is an exciting new venture which reflects our ongoing commitment to investing in specialist services to our customers, and complements our pipe fabrication facility."

Bob Hughes added that the company is "in the unique position of being able to offer customers both the manufacture and distribution of pre-fabricated

▼ *Bob Hughes, Pipe Center Modular Engineering's general manager*



*modules direct to site – all backed by Wolseley's efficient and established supply chain. We will be investing heavily in industry-leading computer software to ensure sophisticated design and the best service level possible."*

*"There are significant growth opportunities in this area as more companies are embracing the benefits of modularisation – from helping to achieve tight timescales in the construction of a building, to reducing the health and safety risks associated with manufacturing the equipment on-site. Modularisation is also cost effective, offering an average 10% saving on installation for example, along with*

*minimising waste and overcoming problems of on-site labour shortages."*

Pipe Center is a supplier to mechanical services and plant engineers, offering expertise in tube valves and fittings in steel, plastic, copper, stainless steel and commercial/industrial heating and air conditioning equipment. The company has 90 branches throughout the UK.

**Wolseley – UK**  
customerservices@wolseley.co.uk  
www.wolseley.co.uk

**Pipe Center – UK**  
www.pipecenter.co.uk

## Towering achievement in steel engineered pile casing

Tubosider technology is being used in the construction of the new 242m steel and glass Heron Tower in London. The tower is being built using 16 specially engineered steel pile casing structures, each running almost 14m into the ground.

Commissioned by contractor Cementation Foundation Skanska for over £200,000, each black pile casing is 2.7m in diameter and 3.5mm thick, with upper and lower spacers top and bottom, plus flanges and braces. Each mesh-reinforced casing was also fitted with a 1m extension for lifting and fitting.

*"It was critical that the casings were designed to withstand any deformation either in transit or installation, and that they were finished and ready for a tight schedule, which they have been," commented project manager Brenton O'Loughlin. "They also met extreme tolerance levels – a few millimetres out of position would have failed."*



▲ Construction of London's new Heron Tower uses 16 threaded steel pile casing structures

The casing structures were specially designed to be threaded deep into the London clay and allow Skanska to carry on 'top-down construction', providing access to work below ground even as the tower's steel columns started to climb towards the capital's skyline.

The 46-storey tower, located in Bishopsgate in the City of London, will be a slender, multi-occupied building providing '6 star' office space, topped by a public restaurant and bar on three levels, and is scheduled to open in 2011.

**Tubosider – UK**  
sales@tubosider.co.uk • www.tubosider.co.uk

## Reconstruction at Berlin airport

The Berlin-Schönefeld airport is currently being reconstructed and extended to become the new international airport BBI (Berlin-Brandenburg International).

From 2011, air traffic will be concentrated in the southeast of the city, allowing the inner city airports Tegel and Tempelhof to be closed down step-by-step. With the establishment of giant new airfields, a solution for an extensive pressured drainage system had to be found. Hobas CC-GRP Pipe Systems

ranging from DN 600 to 1600 were chosen for this purpose. The airport welcomed over 6.3 million passengers in 2007, almost four times the number from five years ago. Low budget flights to destinations all over Europe make the airport suitable for both tourists and business people. Around 20 million passengers are expected for 2011, and a capacity extension to 40 million people per year is possible. The costs for implementing this project will amount to around €2 billion. €445 million will

be spent on airside buildings and clearways alone. Investments in road and train connections, as well as multi-story parking, hotels and conference centres, add to the total. As with every airport project, it is a special challenge to ensure unobstructed airport traffic during the entire construction period. The airport area will span a total of approximately 1,470 ha – equal to 2,000 soccer fields. The optimal discharge of rainwater is therefore a top priority. Apart from the airstrips, further extensions for additional open space and parking lots are planned, which also require professional drainage.

## Solutions for engineering and construction projects

London and the South East of England are experiencing a surge in the development of prestigious projects, particularly in the sports, educational and leisure sectors. Many of these projects include venues and transportation systems that have to be completed by the time London hosts the Olympic Games in 2012. Saint-Gobain Pipelines is capitalising on the opportunities presented by the upturn in such projects.



▲ Saint-Gobain Pipelines' rainwater systems were recently specified for the redevelopment of Twickenham Stadium

Saint-Gobain Pipelines is a supplier of ductile iron and cast iron products to the UK's key utilities, telecoms, highways, civil engineering, construction and housing sectors, and is a leader in the supply of cast iron soil and drainage and rainwater systems, ductile iron water and sewer pipes, fittings, valves and adaptors, and ductile iron access covers and gratings. Together with its international parent company, Saint-Gobain PAM, the company has provided solutions for engineering and

construction projects in over 80 world capitals and more than 1,000 major cities. "By working closely with our customers we are developing targeted engineering solutions that create a lasting legacy which will benefit the environment and local and international communities for years to come," commented John Wilson, key account director, building services and industrial at Saint-Gobain Pipelines.

The company's pipes, fittings and drainage systems have been used in many internationally renowned UK venues, including the British Library, the Royal Albert Hall, Arsenal's new Emirates stadium, the Centre Court at Wimbledon, the Channel Tunnel Rail Link and Bluewater Shopping Centre. The company also provides the infrastructure to support efficient operation of essential public amenities, such as hospitals, schools, libraries, retail developments and pumping stations, as well as high quality residential properties and commercial office buildings. As part of Saint-Gobain's focus on the area of London and the South East of England, the company has set up a permanent exhibition called the Saint-Gobain Innovation Centre. Located in London Docklands, the centre showcases the company's expertise and range of products relevant for the varied projects in the capital, and provides a venue for the company's staff to discuss products and services with architects, contractors and engineers.

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

The high-performing airport sets high demands on its future pipe systems: high loads incomparable with those of road traffic, and aggressive substances such as kerosene and anti-freeze, which are employed especially during the cold season, had to be considered when choosing the right pipe material. After extensively comparing the options, the client chose Hobas CC-GRP SewerLine® systems. Significant criteria were the systems' hydraulic performance, their ability to bear high static loads and their corrosion resistance. Reaction forces resulting from internal pressure work on the bends are overcome with locked sections and ground anchors.

The first pipes, produced by Hobas Pipe Germany, were installed in April 2008. The contractor consortium was said to be highly satisfied with the technical support of Hobas, which includes the elaboration of line and installation plans, as well as installation support and pressure tests on-site by Hobas technicians. To keep construction times as short as possible, logistics were carried out in close cooperation with all parties. A total of 8km of Hobas SewerLine DN 600-1600 with pressure classes PN 6 to PN 10 were expected to be installed by September 2008.

Hobas has previous experience on the airfield, with successfully implemented projects such as the drainage system at Munich Airport and the rehabilitation of the sewer system at Schiphol Airport in Amsterdam. Hobas Benelux has also secured an agreement as preferred supplier of pipe systems for Schiphol Airport.

**Hobas – Austria**  
info@hobas.com  
www.hobas.com



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# **BORU 2009**

**5<sup>th</sup> International Tubes, Pipes,  
Fittings and Machinery Fair**

**5-8 March 2009  
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**BORU 2009, the dedicated exhibition of Tube & Pipe and Auxiliary technologies, will be held for the fifth time at the Istanbul Expo Center, Turkey between 5-8 March.**

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**Industry professionals from Europe, Middle East, Asia, Africa and traders from all around the world will come together for the opportunity to develop new and existing business relationships and export opportunities in the region's dynamic market.**

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## **Boru 2009: 5<sup>th</sup> International Tubes, Pipes, Fittings and Machinery Fair**

Turkey has been developing into an extremely important player in the tube and pipe industry for the last five years. Many tube and pipe professionals are interested in what BORU can do to assist them in achieving their goals in this region that covers Turkey, The Balkans, Eastern Europe, all of the Middle East, Northern African countries, Turkish Republics and neighbouring countries.

Turkey's geographical position, with a foot in both Europe and Asia plus its proximity to the very important Middle East, Gulf states and CIS markets, means that the Turkish tube and pipe industry is uniquely situated to take advantage of the tremendous opportunities in many markets, whether they are the mature ones to the west or the rapidly developing ones to the east.

Given the impressive rate of growth in the Turkish economy in recent years (nearly 10% in 2005), recent data from industry research specialists indicates that Turkish tube and pipe exports and imports increased significantly in 2007, particularly in the energy sector. Turkish Government has already announced plans to build a new nuclear power plant by 2013 which shall be the third biggest in the world.

As for BORU's location it is not surprising that many international exhibitors from the tube and pipe industry are choosing to showcase their technologies at this event.

At the previous BORU 2008 event, 178 exhibitors from 23 countries took part within a total exhibition area of 11,300m<sup>2</sup>. The event received over 21,000 visitors from 31 countries. These impressive figures have been increasing year on year since the show's debut in 2005.

### **Boru 2009 Organisers:**

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THE 10th CHINA (GUANGZHOU) INT'L TUBE & PIPE INDUSTRY EXHIBITION

# INVITATION



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China Iron and Steel Association (CISA)  
China Non-ferrous Metals Industry Association  
Metallurgical Council of China Council for the Promotion of International Trade (MC-CCPIT)  
Guangdong Metal Institute

## Organizer

Guangzhou Julang Exhibition Design Co., Ltd

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Venue: China Import and Export Fair Pazhou Complex  
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THE 10th CHINA (GUANGZHOU) INT'L METAL & METALLURGY EXHIBITION

# Tube Arabia 2009

10-13 January 2009  
Dubai, UAE

[www.alfajer.net/tekno2009](http://www.alfajer.net/tekno2009)



Image from BigStockPhoto.com Photographer: Mahmoud Rahhal, UAE



## **2<sup>nd</sup> International Trade Fair for Machines, Tools and Tubes & Pipes**

**Tube Arabia is part of the already successful Tekno exhibition. The Tekno 2009 event will be the 9<sup>th</sup> “International Trade Fair for Industrial Machinery, Metalworking, Machine Tools, Dies / Molds and Tubes & Pipes”. Tube Arabia featured as a separate section for the first time in 2007. An additional special section in this year’s fair will be Moldex 2009.**

**Tekno brings together the world’s leading manufacturers, sellers and buyers of light, medium and heavy machinery in a dynamic and vibrant Gulf market aggressively developing its industrial sector as a hedge against the uncertainty of oil prices.**

**Tekno addresses the specific requirements of an industrialising economy as it showcases the following exhibition sub sections in addition to Tube Arabia: The Arab International Industrial Machinery Show (AIM); International Machine Tools & Metalworking Machinery Show (IMT); International Exhibition for Wires, Fasteners and Cables Industry (WIRE); International Woodworking Machinery and Equipment Exhibition (WOODMEX); International Welding Exhibition (INTER-WELD) and the International Exhibition for Molds and Dies (MOLDEX).**

**In this section of the magazine we will be reporting on a selection of companies that are exhibiting at Tube Arabia 2009 and what they will be displaying at the event.**



# Exhibitor List

Exhibitor list correct at time of going to press. Please contact Messe Düsseldorf (infoservice@messe-duesseldorf.de) for updates

Abbey International Ltd .....	USA	MRB Schumag Ltd .....	UK
Aleman Machines OHG.....	Germany	MultiMasz Sp z oo.....	Poland
Angel Pipes & Tubes .....	China	Multimetals Ltd.....	India
Artyomovsk .....	Ukraine	Nexans Deutschland .....	Germany
Arvind Anticor Ltd .....	India	Ningbo Intelligent .....	China
Asian Tubes Limited.....	India	Ningbo United Steel Products .....	China
Asmag UK .....	UK	Nortec Maschinentechnik GmbH .....	Germany
AWS Schäfer Technologie GmbH .....	Germany	Officine MTM .....	Italy
Baofeng Steel Industry Co Ltd.....	China	Olimpia 80 srl .....	Italy
Beijing Hillhead International .....	China	Oto Mills SpA .....	Italy
Borsen Boru Sanayi .....	Turkey	Plastico Trading GmbH & Co KG.....	Germany
Bronx/Taylor-Wilson Ltd .....	USA	Powermaster Engineers PVT Ltd.....	India
Camu srl .....	Italy	Powermaster Middle East (FZE) .....	UAE
CCPIT Machinery Sub-Council .....	China	Prakash Steelage Ltd.....	India
Changzhou Tongchuang Tube.....	China	Pressen Werner Haas .....	Germany
CIMCO/UPC.....	China	Prestar Precision Tubes Sdn Bhd .....	Malaysia
Conros Steels Pvt Ltd.....	India	Qiqihaer Haoying.....	China
Cortinovis Machinery SpA.....	Italy	Reza Zadeh GmbH .....	Germany
DB Engineering (Private) Ltd.....	India	Riveco GeneralSider SpA .....	Italy
Dae Ryung Corporation.....	South Korea	RMT Germany.....	Germany
data M Software GmbH .....	Germany	Rohrwerk Maxhütte GmbH.....	Germany
Dingxiang Haokun Forged.....	China	Sainest Tubes PVT Ltd.....	India
DMG Middle East FZE.....	UAE	Santosh Steel Industries.....	India
EMAG Gruppen .....	Germany	Schierle Stahlrohre KG .....	Germany
EPE Process Filters & Accumulators Pvt Ltd.....	India	Schlesinger Maschinenbau GmbH .....	Germany
ETCO (China) .....	China	Schuler AG .....	Germany
Eurolls SpA.....	Italy	Shanghai Jingxiang Science and.....	China
<i>Euowire Magazine</i> .....	UK	Shanghai Tianyang Steel Tube Co Ltd .....	China
FDM Fachverband des Maschinen und Werkzeug Großhandels .....	Germany	Shenyang Debang Stainless.....	China
Felss GmbH.....	Germany	Sictra Srl.....	Italy
Froch Europe BV .....	Netherlands	SKET Verseilmashinenbau GmbH.....	Germany
Guangzhou Hongda .....	China	SLS Scorodite Pvt Ltd.....	India
Hans Klein GmbH.....	Germany	SLS Tubes Pvt Ltd .....	India
Hebei Guangde Stainless Steel Valve Industry Co .....	China	Smaco (M) Sdn Bhd .....	Malaysia
Heinisch Werkzeugmaschinen GmbH.....	Germany	SMS Meer GmbH.....	Germany
Henan Hong Feng.....	China	Sociedad Anonima de Ingenieria y Construccion Meccanica.....	Spain
Huludao Steel Pipe.....	China	Stark India Toolings Pvt Ltd .....	India
Huzhou Xinyahua Stainless.....	China	Steel Tech.....	China
Iljin Light Metal Co Ltd .....	South Korea	Superinox International Sdn Bhd.....	Malaysia
IMEC Group srl .....	Italy	Taian Kenuo Profile Steel Co Ltd.....	China
International Tube Association (ITA).....	UK	Tanshan Metallurgical .....	China
Intras Ltd .....	UK	Tianjin Baolai International.....	China
Ito-Sin (Deyang).....	China	TPS-Technitube .....	Germany
International Wire & Machinery Association (IWMA).....	UK	Tsingshan Holding Group .....	China
Jiangsu Chengde Steel .....	China	<i>Tube Products INTERNATIONAL Magazine</i> .....	UK
Jiangsu Guoqiang Zinc-Plating.....	China	<i>Tube &amp; Pipe Technology Magazine</i> .....	UK
Jiangsu Wujin Stainless Steel.....	China	Upcast Oy.....	Finland
Jiangyin Jieda .....	China	Vollmer Italia srl.....	Italy
Jiaxing Zhongda.....	China	Wenzhou Huicheng Stainless Steel Co Ltd .....	China
Jinxi Steel Pipe Co Ltd.....	China	<i>Wire &amp; Cable Asia Magazine</i> .....	UK
Julia Utensili.....	Italy	WST Stein Werkzeugmaschinen GmbH .....	Germany
Maschinenfabrik Liezen and Gießerei GmbH.....	Austria	Wuxi Fastube Industry Co Ltd.....	China
Linyi Sanyuan Steel Pipe .....	China	Wuxi Xinya.....	China
Lixue Steel Pipe Co Ltd .....	China	Zelezárny Veseli as.....	Czech Republic
M & M Steel Pipe Co Ltd .....	China	Zhejiang Bona Steel Tube Co Ltd.....	China
Makutec Maschinen- und Kunststofftechnik GmbH .....	Germany	Zhejiang Eastar Steel.....	China
Messe Düsseldorf GmbH.....	Germany	Zhejiang Jianli Enterprise Co Ltd.....	China
Metallurgical Council of CCPIT.....	China	Zhejiang Pengye Stainless Steel .....	China

## Arvind Anticor Limited

Arvind Anticor Limited is a manufacturer and exporter of acid pickling tanks made from extremely corrosion resistant polypropylene thermoplastic.

The company's acid pickling tanks are custom designed according to size and weight of load such as tube, pipe, wire coils, bars, rods and structural steel.

Anticor PP tanks are used for pickling, degreasing, electro-plating, rinsing, fluxing, anodising, passivation, pre- and post-treatment and metal surface treatment.

The tanks are constructed from polypropylene thermoplastic, a material that is highly corrosion resistant. In addition, the tanks are housed in a steel structure frame for mechanical reinforcement, covered with fibreglass.

The tanks are designed and engineered on the 'Rita' tank building software module. All areas of design, calculation, costing and calculating PP tanks are geared towards maximising the benefits of advanced material over conventional alternatives such as brick lining and fibreglass lining.

Benefits include cost saving, impact resistance, corrosion resistance, mobility, minimal weight, leak proofing, environment-friendly, fume free, increased longevity and zero maintenance.

Anticor tanks are designed, manufactured and tested according to German Welding Association DVS 2205 for safety and longevity.

The tanks are manufactured with certified life of chemical resistance. Anticor's facilities are equipped with butt fusion welding, hot gas extrusion welding technology and hydro-thermo radius forming technology.

In addition to butt fusion technology, Anticor has developed radius instead of a right angle corner at the bottom of tank.

This effectively reduces the weld joint at the welded corner radius, thus providing sound mechanical strength. Anticor



▲ A PP tank with steel support, fume exhaust slot and integral ducting

weld joints are tested as per German Welding Association DVS 2203.

The company's tank fabrication technology offers better performance, higher efficiency, higher productivity, lower rejection, zero failure and an environmentally friendly atmosphere.

Welding quality is confirmed by a 3-point bend test, and a specimen seam is subjected to a test of tensile and impact resistance properties. Leakage testing is carried out prior to dispatch by hydro, vacuum and spark test.

Anticor pickling tanks are supplied with accessories such as nozzles, heating/cooling coils, integral suction ducting for fume exhaust, integral slope for drain, lifting arrangement, and top lid cover.

**Arvind Anticor Limited** – India  
info@picklingplant.com  
www.picklingplant.com

## 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



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

of 30,000 tons of austenitic steel and 10,000 tons 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.

The product range includes bars, quadrate 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, the Middle East, USA and EU.

**Baofeng Enterprise** – China  
www.wzbftg.com

## Borsen Boru

Borsen Boru, Turkey, is a distributor of stainless 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.

Since January 2006 the company has manufactured TIG welded stainless steel pipes at its own facilities.

The company uses processes such as tricathode TIG welding, outside and inside bead removal, in-line bright annealing, straightening, surface finishing and end deburring.

Borsen 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



▲ Borsen Boru manufactures TIG welded stainless steel pipes

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.



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

Stainless steel tubes produced by Borsen 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.

**Borsen Boru – Turkey**  
 borsen@borsenboru.com  
 www.borsenboru.com

## Burak Boru

Unifit Boru Baglanti is a manufacturer and wholesaler of seamless steel pipe fittings and flanges.

Using state-of-the-art technology and experienced staff, the company manufactures Unifit branded products with high quality standards.

Once established in the domestic market, the company extended its activities abroad, and currently exports to Europe and the Middle East.

Unifit's production activities occupy a 6,000m<sup>2</sup> area, with nearby highways and cargo ports, giving the company a logistical advantage.



▲ A selection of products from Unifit

The company is based in Turkey, which is a member of the European Customs Union and in negotiations for permanent membership of the European Union.

Sister company Burak Boru, a seamless carbon steel stockist, supplies all of Unifit's product ranges.

Occupying a leading position in the sector of seamless steel pipe trading with its stock and sales volume, the company supports many industrial sectors, such as automotive, HVAC installations, construction, and naval architecture.

With the basic principle of covering material demands based on dimensions, quality, and quantity on time, the company determines its stock policy according to customer requests.

The company has a 45,000m<sup>2</sup> stocking area, with stock capacity of 30,000 tons.

All materials supplied by Burak Boru are tested in the manufacturing factory and



▲ Burak Boru supplies all of Unifit's product ranges

are certificated according to EN, DIN, ASTM, API and GOST standards. The company has a quality management system, and has been certified to ISO 9001:2000.

**Unifit Boru Baglanti – Turkey**  
 info@unifitfittings.com  
 www.unifitfittings.com

**Burak Boru – Turkey**  
 info@burakboru.com  
 www.burakboru.com

## Condat

Since its foundation in 1854, Condat has specialised in the development of innovative chemical products, including a wide range of industrial lubricants.

The company's range dedicated to tube covers the applications of hot and cold forming for tube and bar in rolled, drawn, formed or extruded processes.

The extensive product range is designed for all metals, carbon and stainless steel, aluminium, copper and alloys, and includes graphite coatings, non-reactive pre-coatings, soap reactive coatings, dry soap powders, soluble lubricants, surface protection products, degreasing products, and neat oils, greases and pastes.



▲ Tube drawing lubricants from Condat

Condat was among the first companies to develop a complete range of non-reactive coatings and to offer an environmentally friendly alternative to conversion coatings (zinc phosphate and oxalate) for carbon and stainless steels.

For tube drawing of stainless and carbon steel, the company produces Supralub 35. This coating is directly applied onto the bare metal surface, without any previous surface preparation such as



zinc phosphate, ensuring cost and time savings. The eco-friendly, soap-based product does not contain any solvents or heavy metals, and does not produce any waste (such as zinc phosphate sludge).

Condat has also developed a specific lubricant for carbon welded tube. The soluble lubricant Vicafil TF 498 A offers very low dilution ratio, high filtering ability, good stability, improvement of protection against corrosion, reduction of gumming deposits, clean working environment and strong detergent properties. The lubricant provides a high level of productivity thanks to its extended 'in service' life and its ability to be used as a unique lubricant for the whole process.

The technologies used in Condat lubricants are also found in tube drawing and forming processes, including specific applications such as pilgering or final products such as seamless tubes.

**Condat** – France  
www.condat.fr

## data M Software GmbH

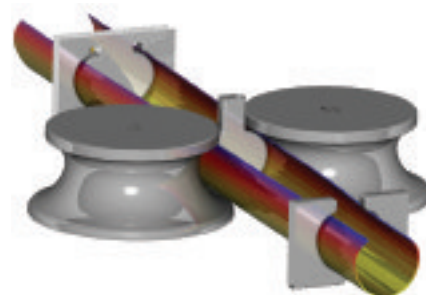
At Tube Arabia 2009, data M Software will present the new version of its finite element simulation solution for the rollform process Copra® FEA RF 2009.

Copra FEA RF helps the manufacturer to understand the rollform process, trace recurring problems and carry out target-oriented optimisation.

Due to the fact that rollform technology is continually developing, data M sees it as essential to add new possibilities into the FEA software.

The company believes that this new version has come closer to reality than any other simulation or analysis software. The company has enhanced both the FE Analysis software and also the design package Copra RF.

One specific feature to have been improved is the handling of cage forming methods.



▲ Copra RF now also supports integrated drawing dies

Copra CageForming is a straight forming method that enables the possibility to design and model any type of rolling cage.

A cage forming system is a continuous forming process by groups (beams) of single simple rolls and additional supporting outer and inner roll tools.

Copra allows for the modelling of various types of straight edge forming systems due to its parametric structure.

The lineal beams are either predefined or – if there are single mounted rolls →

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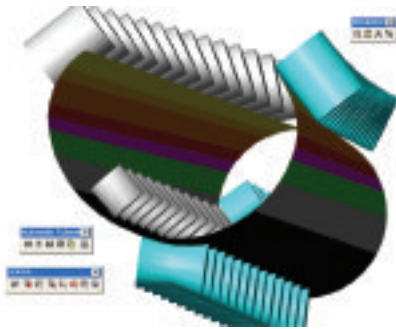
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*Progress Through Co-operation*



▲ The principle of the cage forming (or linear forming) system with modelling in Copra

➡ – each roll and respective position is defined in specific database tables. In order to achieve a correct forming result it is important to have a smooth strip entry into the forming cage.

Therefore it is important to optimise both entry passes as well as the position of forming and guiding rolls in the forming line.

There are some obvious advantages to perform a mill setup on the computer rather than on the mill by practical trials. These include the possibility to

add, edit or remove any cage station (straight edge forming system) within the current tube mill roll tool layout. This is undertaken via the built-in tool browser where the forming lineal can be positioned between the existing forming stations.

**data M Software GmbH** – Germany  
 datam@datam.de  
 www.data-m.com

## Eurolls SpA

Founded in 1997, Eurolls SpA produces and designs rolls made of steel and sintered materials. Eurolls' capacity covers rolls for tube mills up to 24". With customers located worldwide, the company has a capacity to produce an average of 4,000 rolls per month among steel rolls and tungsten carbide rolls for different applications.

The company's subsidiaries, which include Eurolls de Mexico, Eurolls do Brasil, and Iber Eurolls in Spain, are fully equipped for wire and tube rolls



▲ Eurolls has involvement in many aspects of the tube and pipe industry

production and regrinding, and are able to guarantee a quick and full response.

Eurolls offers advice on tube mill refurbishment and training of customer personnel. Innovative equipment for roll polishing, heat treatment facilities and a sintering plant were incorporated into the company's production programme last year.

The control of each step of production, starting from the entry of raw material to the final dimensional control of each piece, is the ISO 9001 certified company's primary concern.

**Eurolls SpA** – Italy  
 info@eurolls.com  
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## Guangzhou Hongda

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, and it is also able to produce a range of other pipes, particularly seamless carbon steel pipes.

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

**Guangzhou Hongda** – China  
hongdasteel@21.cn.com  
www.hongda-steeltube.com

## 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](http://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* magazine or *Tube Products INTERNATIONAL*.

**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 comprising of ERW pipe, GI pipe, guard rail and HR coil.

The company has an annual capacity of 600,000 tons 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 1,300m<sup>2</sup> production area, with more than 2,000 employees.

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

## MFL

Maschinenfabrik Liezen and Gießerei GmbH (MFL) is a manufacturer of high-power cold circular sawing plants, with worldwide supply of equipment based on a standard design.

The company's customers are mostly from the European and Asian markets.

The company's plants are designed for sawing of stainless steel, ferrous and non-ferrous material in form of billets, tubes, profiles and plates.



▲ MFL is a manufacturer of cold circular sawing plants

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➔ The custom-made solutions are used for specific applications such as tube or profile layers, billets or plate sawing plants.

Each machine is intended to utilise carbide tipped saw blades, which guarantee an accurate cut and high capacity by less costs and long tool life time.

MFL supplies sawing machines for round materials and tubes from 30 to 800mm in diameter.

The saw blade diameter, which is used for cutting of 800mm in diameter, is 2,200mm. The largest square dimension that can be cut with MFL sawing machines is 720mm.

The company has also developed a layer sawing machine with a layer width of 1.5m, which is used for cutting tubes, I- and U-beams, sheet pilings and angles.

In addition, MFL supplies sawing machines for cutting aluminium plates, coupons and other samples for material inspection.

For manufacturers of railway rails, MFL offers a special sawing machine – the combined rail sawing and drilling machine.

This type of machine cuts and simultaneously drills holes into the rail, which guarantees very short cycle times for the cutting and drilling process.

**MFL – Austria**  
saegen.fraesen@mfl.at  
www.mfl.at

## Multimetals Ltd

Multimetals Limited is a manufacturer and exporter of seamless extruded drawn copper and copper alloy tubes.

The company supplies applications including heat exchangers, nuclear and thermal power plants, shipbuilding and repairs, petroleum refineries, sugar plants, defence establishments, and air conditioning and refrigeration.

The product range includes tube and pipe manufactured from copper, capillary, cupro-nickel, admiralty brass, aluminium brass and other brasses,

together with bare, low fin and U-bend tubes. Other products include copper-alloy rods, profiles and alloys such as aluminium and manganese bronze, naval brass, cadmium and tellurium copper.

The company, which exports to all developed countries, has won 11 Export Excellence awards in the last 13 years.

**Multimetals Ltd – India**  
sales@multimetals.in  
www.multimetals.in

## Nexans Deutschland GmbH

Nexans Deutschland GmbH is the manufacturer of a new universal welding machine, branded the Uniwema®650.

This machine is capable of manufacturing corrugated stainless steel pipes up to an OD of 650mm and a wall thickness of 3mm.



▲ Nexans has developed a new universal welding machine for LNG applications

Prior to the development of this machine, the largest Uniwema machine was limited to an OD of 400mm.

The new machine was designed as a solution for today's onshore and offshore LNG (liquefied natural gas) transfer and terminal applications.

The LNG industry requires vacuum-insulated, flexible, stainless steel pipes with an outer diameter of up to 16".

Environmental and safety aspects currently play the most important role in the increasingly sensitive LNG market.

The well-proven technology of the split clamp caterpillar capstan in combination with the Uniwema corrugation technology will be used for this continuous forming, welding and corrugating machine.

Nexans is in the position to deliver any length of corrugated pipe systems up to an ID of 600mm.

Depending on transportation restrictions, a typical length of one pipe section is from 55m up to 350m. The drive system of the split clamp caterpillar capstan comes in the form of a hydraulic system, while the electrically driven corrugation unit is synchronised to the capstan speed. Welding is performed through the company's patented and ASME approved Polyarc process.

Benefiting from worldwide unique Uniwema technology – claimed to be the only technology capable of continuously producing 16" and 20" flexible metal pipes – onshore and offshore LNG terminals will be able to avoid excess-gas burning of the resource of natural gas.

**Nexans Deutschland GmbH**  
– Germany  
uniwema.tech@nexans.com  
www.nexans.de

## 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 skilled staff of 242, 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 300 tons of fittings and 400 tons of tube and pipe per month.

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

## TPS-Technitube GmbH

TPS-Technitube Röhrenwerke GmbH is a privately owned company operating modern production mills and stocks for various tubular products.

With more than 30 years' experience, the company offers a range that includes seamless tube and pipe, heat exchanger and boiler tubes, hydraulic and instrumentation tubing, U-tubes, and OCTG (tubing, casing, drill pipe, pup joints, crossovers and nipples). The company also manufactures finned tubes, studded tubes, fittings, flanges, and forgings.

The company's products are supplied in a range of materials, including carbon steel, alloy steel, stainless steel, nickel alloys, titanium, non-ferrous, brass, copper nickel, and aluminium.

TPS-Technitube GmbH – Germany  
[www.tps-technitube.de](http://www.tps-technitube.de)

## Tube & Pipe Technology magazine



*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.

The magazine includes regular topical columns such as 'From the Americas' – an economic and industry report on North and South America, a variety of technical features, and in-depth articles highlighting the latest scientific information and manufacturing solutions.

The magazine has a worldwide circulation of over 12,000, distributed to managers, buyers, technologists, engineers and specifiers in over 100 countries. Working in partnership with the International Tube Association (ITA),

*Tube & Pipe Technology* is sent out to all ITA members.

*Tube & Pipe Technology* is now also available as an online e-zine, which will reach even more worldwide readers, with selected content available free to all and the entire digital version available on subscription. Readers of the e-zine can click on hyperlinks to be sent directly to websites, while advertisers are able to incorporate video-movies into their adverts.

Visitors to Tube Arabia 2009 can pick up a free copy of the latest edition at the *Tube & Pipe Technology* stand, together with information on subscription, advertising and the new e-zine.

Information will also be available on *Tube Products INTERNATIONAL*, the new magazine for the world of tube and pipe products and materials, read by producers, buyers and end-users.

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# HONGDA STEEL TUBE



Guangzhou Hongda Steel Tube Co., Ltd. is a professional manufacturer of seamless carbon steel tube and seamless stainless steel tube. The main products include:

**Seamless carbon steel tube:**

ASTM A53/ A106/API 5L GR.B; ASTM A179; ASTM A192; ASTM A519 SAE1010, SAE1020, SAE1035, SAE1045; SAE52100; API 5CT J55/N80; ASTM A333 GR.6; ASTM A210 GR.A1; ASTM A213 T11, T12, T22; DIN1629 ST37.0, ST52.3; DIN17175 ST35.8 GR.I; DIN2391 ST37.4; JIS G3461 STB340; etc.

O.D.: 19.05mm-325mm,  
W.T.:1.65mm-25mm

**Seamless stainless steel tube:**

ASTM A312/312M, ASTM A213/213M, ASTM A269, JIS G3459, JIS G3463, DIN17456, DIN 17458, EN 10216-5 etc, with material: TP304/304L, TP316/316L, TP321, 321H, 310S, 316Ti, 317/317L,347H, 1.4301, 1.4306, 1.4541, 1.4401,1.4404, etc.

O.D.: 4mm-325mm,  
W.T.: 0.5mm-25mm

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