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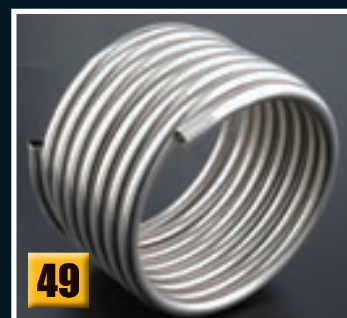
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Tube Products

INTERNATIONAL

The World of Tube & Pipe Products, Materials & Ancillaries

The importance of tube



Welcome to the latest issue of Tube Products International magazine, which many of you will be reading at the Tube China 2010 show.

The Tube Products International team will, as always, be there in force supporting the event as once again the busy calendar for tube events takes off with Fabtech and EuroBLECH not too far around the corner.

Please do come and say hello.

It's going to be particularly exciting to be in Shanghai in September to see for myself just how efficiently China has emerged from the the global recession and to visit the spectacular city. China has really taken the bull by the horns by investing in a series of massive projects around the country, while many other nations around the world have chosen to delay construction programmes as the world slowly sees the green shoots of recovery emerge for which we are all thankful.

This is surely good news for all connected with the tube industry, especially when you look at how China is set to carry on growing at an amazing rate over the next few decades in big tube manufacturing sectors: its motor industry and general infrastructure are set to boom with its aircraft travel also predicted to grow an incredible 200% as it seeks to connect up its more remote regions. Many of the tubes and aircraft or parts will be supplied by Europe and the USA so this should offer a much needed global boost.

In one way or another tubes have been a hot topic around the world this month. As always with such an important product it touches every aspect of modern life from the tragic to the much more jovial.

With the massive oil leak that continues to cause untold harm in the Gulf of Mexico it's the more tragic side of things and after trying many solutions to fix the leak the most important has been a tube.

BP had some success with a "riser insertion tube" – a pipe with rubber diaphragm inserted into the leaking part of the riser pipe that is the source of the main oil flow from the well.

The insertion tube is connected to its own riser pipe that takes the oil and gas to the Transocean Discoverer Enterprise drillship, 5,000ft (1,524m) above on the surface.

Methanol is injected into the tube to stop the formation of hydrates – crystals that could block the flow of oil and gas.

The tube tool has been able to collect about 3,000 barrels a day of oil and some 14 million standard cubic feet a day of gas.

The oil is being stored and gas is being flared on the drillship Discoverer Enterprise – which has the capacity to store 139,000 barrels of oil. Whether or not this will be the final solution is not known but it offers a ray of light.

On a lighter note no one who has watched the recent FIFA World Cup in South Africa can fail to have heard, or should I say endured, the sounds of the now famous vuvuzela (a solid tube of plastic used as a horn). Apparently it's a £5m industry even without the World Cup (which has generated several more million pounds of profit). It is one area of the tube manufacturing industry I hope does not continue to grow...

Enjoy the issue and don't forget to start sending editorials for next time. We are focusing on water, drainage and underground tubing, PVC, PE and XLPE tubes and structural tubes (inc HSS).

Rory McBride
Editor

events calendar

2010

**21-24
September**

Tube China 2010
International Exhibition
www.tube-china.net

**26-30
October**

EuroBLECH
International Exhibition
www.euroblech.com

**2-4
November**

Fabtech / AWS Welding Show
International Exhibition
www.fabtechexpo.com

**30 November –
2 December**

Valve World Expo
International Exhibition
www.valveworldexpo.com

2011

**8-11
January**

Tekno / Tube Arabia 2011
International Exhibition
www.tube.de

**11-14
January**

SteelFab (Sharjah, UAE)
International Exhibition
www.steelfabme.com

**3-6
March**

BORU 2011
International Exhibition
www.borufuari.com

**23-26
May**

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

**13-15
September**

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

**19-24
September**

EMO Hannover
International Exhibition
www.emo-hannover.de

**4-6
October**

Tubotech (Brazil)
International Exhibition
www.cipamet.com.br

**13-16
November**

Fabtech / AWS Welding Show
International Exhibition
www.fabtechexpo.com

TBA

Tolexpo (Paris)
International Exhibition
www.tolexpo.com

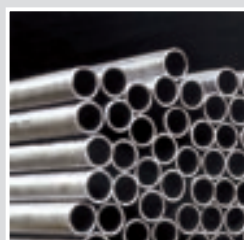
For further information on any of the above events please contact INTRAS Limited UK office (address and contact details on page 4)

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business & market news

Expansion of plant in the Asab gas field

The United Arab Emirates is among the countries with the most extensive oil and gas reserves in the world. However, these resources are not evenly distributed among the seven Emirates: Abu Dhabi, by far the largest in area, has over 90% of the total oil and gas reserves of the UAE.

Some 220km to the south of the city of Abu Dhabi is the Asab gas field, currently the site of one of the largest upstream projects in the Middle East.

In connection with work by the oil company ADCO to expand the existing facilities and increase capacity, two EPC (engineering, procurement and construction) contracts have been awarded. ADCO is a joint venture of the Abu Dhabi National Oil Company (ADNOC), Shell, Total, ExxonMobil, BP and Partex.

Package A covers further exploitation of the onshore Asab field by replacing

and enhancing the existing gas production centres and oil and gas cleaning facilities.

Package B covers the exploitation of the neighbouring Sahil and Shah fields by establishing degassing stations, and laying plant and flowline pipes and the main oil pipelines connecting both Sahil and Shah to Asab.

The \$2.3bn Package A was awarded in 2009 to Petrofac, an international provider of plant solutions for the oil and gas exploration and production industry. German manufacturer H Butting GmbH & Co KG received an order from Petrofac for the production and delivery of stainless steel pipes in dimensions from 6" to 48", with the bulk of them being 30" x 35.6mm.

The pipes are used as transport lines for the aggressive sour gas in various areas of the expanded plant. The resulting corrosion resistance

requirements will be met by the use of super duplex material (UNS S32750). The wall thicknesses of the pipes range from 3.76 to 35.6mm, and the total delivery runs to around 1,400 tons.

The pipes were manufactured by Butting in 12m lengths and without circumferential weld, in its expanded manufacturing facilities. With the optimised production flow, the welded pipes do not need to leave the production hall from the point when they are shaped from 12m plates and worked into open-seam tubes to their final quality assurance inspection.

This cost-effective method benefited Petrofac by enabling their requirements to be met while saving on circumferential welds on site.

Butting has to comply with a tight timetable: the investors have announced that the expanded plant will be completed some time in 2010. By producing and delivering the pipes between September 2009 and April 2010, Butting will help to achieve this ambitious goal.

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

Imatek in Russian sale

Imatek, a manufacturer of materials testing equipment primarily in the fields of impact testing, has installed a 30,000J DWT40-30, drop weight tear tester (DWTT) at Ural Steel in Novotroitsk, Russia. Imatek's products are used to test the properties of materials, components and assemblies in industries such as aerospace, polymer processing, steel production, automotive and academic research.

The DWT40-30 replaces an older machine and will be used to test the fracture properties of steel used in the manufacture of large diameter pipe for the oil and gas industries. This is a significant installation for Imatek, as it represents the company's first sale into Russia following the appointment of new distributor, Uralsibpromservice (USPS), based in Chelyabinsk.

Ural Steel is a subsidiary of the holding company Metalloinvest, and is the largest enterprise in the South Ural region and one of the eight leading metallurgical integrated works in Russia. The company was founded in 1955, and is now a significant niche

steel producer of strips, tube billets, bridge steel, machinery construction steel and billets for exports.

The use of higher grade steels in the oil, gas and manufacturing industries is creating the need for a new generation of specialist impact testers. Imatek offers a range of DWTT systems for measuring the fracture characteristics of steel specimens according to API recommended practice 5L3, EN 10274 and ASTM-E 436. Steel grades of X120 and specimens of up to 50mm can be accommodated.

A major feature of the Imatek range is the high-quality instrumentation and analysis software that provides detailed information, both graphical and tabular, for the specimen failure. While the DWTT test method does not require instrumentation, recent research indicates that it is of significant benefit when testing the tougher X-steels. Instrumentation enables crack initiation, and most importantly crack propagation energies, for the specimen to be determined, which is considered a better measure of



Imatek has installed a DWT40-30 drop weight tear tester at Ural Steel

'in-use' performance for these steels than visual assessment of the fracture surface.

Imatek Ltd – UK
info@imatek.co.uk
www.imatek.co.uk

Kuwait Pipeline Technology Conference & Exhibition

The Kuwait Pipeline Technology Conference & Exhibition, to be held at the Hilton Kuwait Resort, 6 & 7 October 2010, is a new international platform for products, systems and services relating to the transport of oil, gas and water.

The focus will be on the entire value added chain, from planning, construction and operation to maintenance and repair. The conference will provide participants with practical solutions for effective planning, design, construction, operation, corrosion, mitigation and maintenance strategies applied to state-of-the-art pipeline networks. The conference will also present detailed information and techniques needed to overcome pressing challenges in

effective planning and management of pipeline systems.

The Pipeline Technology Conference combines all pipeline related topics, including: manufacturing materials and technologies; pipeline project management; design and construction; rehabilitation and maintenance; GIS/database development; pipeline integrity management; pipeline automation and measurement; risk and reliability; protection, corrosion and monitoring systems; and standards and regulations.

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Welspun to acquire MSK Projects India

Welspun Infratech Ltd, a subsidiary of Welspun Gujarat Stahl Rohren Ltd and part of US\$3bn Welspun Group, has signed an agreement to acquire a majority stake in construction company MSK Projects India Ltd.

Welspun sees huge potential in the \$500bn infrastructure sector in India, along with synergy it can drive in pipe laying business. Welspun has a special focus on oil and gas pipelines, water and wastewater systems, highways, civil and industrial projects, and power plant construction.

MSK has three decades of experience, and its business model includes EPC projects in roads, industrial construction and PPP (public private partnership). MSK also owns several BOOT (Build Own Operate Transfer) assets in the road sector, water and bus terminals, most of which are nearing completion with toll income commencing in the near future.

Welspun aims to acquire a stake of around 75% through a combination of share purchases from promoters, associates, investors, preferential allotment and open offer. The company will make a mandatory open offer to the public shareholders of MSK Projects.

The transaction has been unanimously approved by the boards of directors of both companies. The closing of the transaction will also be subject to customary conditions including regulatory approvals, and is expected to be completed in around 90 days.

The total investment in the acquisition will be around Rs 400 crore, of which approximately Rs 200 crore will be used for future business growth in both EPC and BOOT assets. The entire investment will be funded by the existing cash flows of Welspun Gujarat.

The acquisition will enable Welspun to move a step towards complete

integration by being a one-stop-solution in the line pipe segment. It will capture the full value chain, from manufacturing of plate and coil, to line pipe, and pipe laying.

Mr BK Goenka, chairman and managing director of Welspun commented, "This acquisition will enable our direct entry into the world of infrastructure."

Welspun Gujarat Stahl Rohren has supplied pipes for prestigious projects including the world's deepest pipeline project in the Gulf of Mexico, and Keystone Project of Transcanada. The company's operates plate and pipe plants in Dahej and Anjar in Gujarat, India, and a pipe mill in Little Rock, Arkansas, USA. The manufacturing facilities incorporate hybrid JCO technology from Mannesmann Demag of Germany (SMS Meer).

Welspun – India
www.welspun.com

Fine Tubes beats recession

Fine Tubes, a UK manufacturer of stainless steel, nickel and titanium tubing in seamless and welded, has been awarded D&B's 'Rating 1' for its 'highest level of creditworthiness' and 'minimal risk of failure'.

Despite economic turbulence and the frequently quoted 'credit crunch', Fine

Tubes' Rating 1 status officially places it among the UK's top 15% of companies. The score represents the highest level of creditworthiness and a minimum risk of failure according to business reporting firm Dun & Bradstreet (D&B).

"The D&B rating is recognised internationally," explained Nicky Keyworth, customer experience leader at Dun & Bradstreet, who personally handed over the certificate to Fine Tubes. "It is a dynamic score which is reviewed with the most current data on an ongoing basis, and Fine Tubes have consistently performed at this highest level for more than the past 12 months. D&B ratings consider financial stability, the company's payment record, public filings, trade payments, business age and other factors to produce one of the most comprehensive reports on a company's creditworthiness that exists anywhere in the world."

from receiving a loan or an extension to a line of credit. It can also cause investors to vanish or panic, suppliers to cease shipments or vendors refuse to stock products. In other words keeping a good Dun and Bradstreet rating is essential to the good operation of any business. To have achieved 'low risk, high creditworthiness' status during one of the worst economic times in recent years is fantastic accomplishment."

Fine Tubes has a fully integrated facility of over 215,000ft² for the manufacture, research and development of precision tubes in seamless, welded, welded and drawn forms. The standards and specifications for these tubes and coils are aimed at niche applications in the most hostile operating environments. Fine Tubes products serve a wide range of markets such as the oil & gas and chemical process, aerospace, medical, and nuclear industries.

Fine Tubes Ltd – UK
sales@finetubes.co.uk
www.finetubes.co.uk



(Left to right) Marshall Davis (chief financial officer, Fine Tubes), Nicky Keyworth (customer experience leader, Dun & Bradstreet) and Ronen Day (MD, Fine Tubes)

Marshall Davis, chief financial officer at Fine Tubes, commented, "A D&B rating can assist or prevent a business

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Hobas opens top-level research centre

International pipe producer Hobas has opened a new research centre for glassfibre reinforced plastics (GRP) pipe systems in Wietersdorf, Austria. The Hobas TechCenter was inaugurated on 30 April, following a year of construction work and an investment of €1.1mn.

“We cannot and will not afford stagnations,” stated Doris Strohmaier, managing director of the Hobas Group, defining the company’s philosophy. “On the contrary, we want to set new standards in the marketplace. We are aware of the responsibility we bear with the delivery of our products and are wary of making promises we cannot keep.” The establishment of the new TechCenter is a further step in line with the group’s ambitious mission.

The laboratory is certified to international standards such as ISO/IEC 17025 (by TÜV SÜD) and is authorised to carry out product tests to prove various norm conformances for all Hobas organisations. The TechCenter, with its currently 115 long and short-term

testing units, is now one of the world’s most modern research centres for GRP. Tests include stiffness, ring stiffness, abrasion, burst, strain corrosion, creep, and cyclic internal pressure loading or longitudinal tensile stress tests under temperatures up to 65°C. As pipes are only a part of the Hobas product range, couplings and fittings of all shapes and sizes are also put to the test, for example hydrostatic pressure tests on large diameter laminated bends.

Thomas Simoner, the group’s head of quality management, raw material and product development, commented, “There is no certification centre that is able to test 4m diameter pipes. We can now conduct these tests in-house and if necessary the certification authorities can monitor us via camera.”

The centrifugal casting process of Hobas GRP pipes was borne by chance in 1957 in a dye-works in Basel, Switzerland. The wooden cylinders that had been used in the dyeing process constantly splintered and deformed, spoiling the expensive

textiles that ran between them. A suitable alternative material for the cylinders was found in a combination of glassfibres and polyester resin. The visionary Swiss dye-works team had proven talent with the invention of their centrifugally cast cylinders and soon recognised that the advantages the material and its special production method brought about were suitable also in a completely different field of application: piping. 50 years ago the cylinders were first used as pipeline to convey water. Step by step, the pipes were improved, the production process automated, and the product range extended and complemented with tailor-made fittings.

The Hobas Group produces and markets centrifugally cast GRP (CC-GRP) pipe systems DN 150 to DN 3500 around the world for potable water, sewer, drainage, hydropower and industrial applications.

Hobas Engineering – France
info@hobas.com
www.hobas.com

ArcelorMittal confirmed as sponsor for 2012 Olympics

ArcelorMittal has become a ‘tier two’ sponsor of the London 2012 Olympic and Paralympic Games, and will support the infrastructure of the Games.

To mark the announcement Boris Johnson, the Mayor of London, and Lakshmi Mittal, chairman and CEO of ArcelorMittal, unveiled the artist and design chosen to create a spectacular new visitor attraction in the Olympic Park. The ArcelorMittal Orbit, designed by Anish Kapoor, will act as an iconic and permanent symbol of the 2012 games, and will demonstrate the artistic and functional versatility of steel as a construction material.

Mr Mittal commented, “The Olympic Games are one of the few truly iconic global events. I was immediately excited by the prospect of ArcelorMittal becoming involved because ArcelorMittal is a global company with operations in more than 60 countries. And as

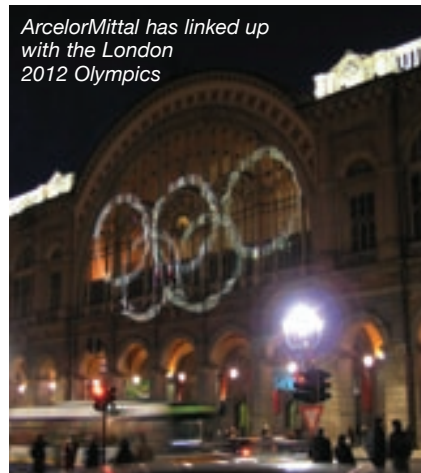
someone who lives in this great city, I remember the great excitement felt when it was announced that London had been selected to host the 2012 Olympic and Paralympic Games. We set out to create a transformational piece of art that will be an iconic symbol for the Olympics and also a new landmark

that will endure long after the Games themselves.”

ArcelorMittal will fund £16 million of the £19.1 million project, with the outstanding £3.1 million provided by the London Development Agency. The sculpture is the largest single artwork ever commissioned for any Olympiad, and will also make a significant financial contribution to the long-term regeneration of East London.

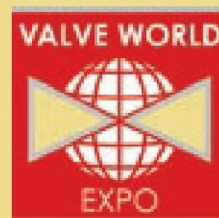
The ArcelorMittal Orbit will harness state-of-the-art engineering and architectural techniques. Constructed with steel provided by ArcelorMittal, the sculpture will consist of a continuous looping lattice of tubular steel, and will offer an unparalleled view of the entire Olympic Park and London’s skyline from a special viewing platform.

ArcelorMittal – Luxembourg
www.arcelormittal.com



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Ameron appoints group president, fibreglass-composite pipe group

Ameron International Corporation has announced the appointment of Mr Allen S Chiu to the position of group president of the company's fibreglass-composite pipe group. The fibreglass-composite pipe business has operations in Burkburnett and Mineral Wells, Texas; Singapore; Malaysia; Geldermalsen, the Netherlands; and Belo Horizonte, Brazil. Ameron also has partial ownership of a fibreglass pipe affiliate in Saudi Arabia. Sales and segment income of the fibreglass-composite pipe group in 2009 totalled \$225mn and \$68mn, respectively.

Mr Allen joined the company in 1998 as managing director of Ameron (Pte) Ltd, the company's wholly owned subsidiary in Singapore, where he oversaw the

growth and success of the Asian/Pacific operations for the past 12 years. Prior to joining Ameron, Mr Allen was employed by Exxon for ten years in senior engineering and research positions.

Mr Allen holds a Bachelor of Science degree in chemical engineering and a Masters of Science degree in plastics from the University of Massachusetts, as well as a Masters of Science degree in chemical engineering from the University of New Hampshire.

James S Marlen, Ameron's chairman, president and chief executive officer said, "Allen has demonstrated strong technical and marketing skills that have been critical to the growth and success of Ameron's operations in Asia. Allen's

leadership will be an important factor in realising the long-term growth potential of the fibreglass-composite pipe business and the success of Ameron."

Ameron International Corporation is a multinational manufacturer of highly engineered products and materials for the chemical, industrial, energy, transportation and infrastructure markets. The company produces water transmission lines and fabricated steel products, such as wind towers; fibreglass-composite pipe for transporting oil, chemicals and corrosive fluids and specialised materials; and products used in infrastructure projects.

Ameron International Corporation – USA
www.ameron.com

Alcoa names president of Alcoa Foundation

Alcoa has named Paula Davis president of the Alcoa Foundation, one of the largest corporate foundations in the USA. She succeeds Meg McDonald, who resigned earlier this year to return to her native Australia. Alcoa Foundation plays a significant role in strengthening sustainability in Alcoa communities worldwide, investing over \$515mn since 1952. The work of Alcoa Foundation is further enhanced by Alcoa's thousands of employee volunteers, who in 2009 gave over 650,000 service hours.

Ms Davis joins Alcoa Foundation from The Pepsi Bottling Group, where her responsibilities as vice president, corporate communications included overseeing the PBG Foundation as well as leading the company's external, internal, executive and customer programmes.

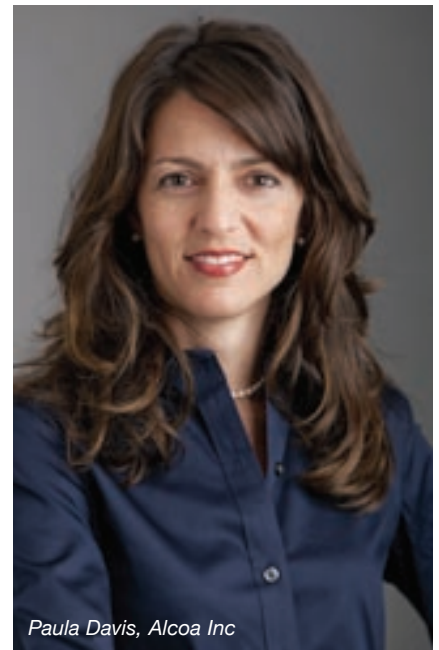
"Paula brings to Alcoa a broad communications background and foundation experience in a related industry," said Nick Ashooh, Alcoa vice president, corporate affairs. "She also shares Alcoa's commitment to

sustainable business practices, one of the company's core values. With her talent and enthusiasm, we are confident she will lead Alcoa Foundation to even greater success in addressing both local community development goals and broader global sustainability challenges."

Ms Davis has also held senior positions with Siemens USA, where she was executive officer and senior director of Siemens' corporate communications and relationship marketing programmes. Her responsibilities included managing the company's marketing and communications programmes to build the Siemens brand and stimulate new business, including overseeing Siemens' long-standing alliance with Disney Parks and Resorts. While at Siemens, she also held positions in media and public relations. Ms Davis' earlier experience includes strategic internal and media relations for MVP.com, an online sports e-tailer, Arthur Andersen, Sears, Roebuck and Company, and Sara Lee Corporation.

Ms Davis holds an MBA in marketing and organisational behaviour from the Northwestern University Kellogg Graduate School of Management, and a bachelor's degree in English and Psychology from the University of Michigan.

Alcoa Inc – USA
www.alcoa.com/foundation



Paula Davis, Alcoa Inc

International steel tube industry expo

The 7th China (Beijing) International Steel Tube Industry Expo will take place 8-10 November 2010, at the China International Exhibition Center, Beijing.

The exhibition, which was established six years ago, attracts influential experts, purchasers and decision makers from over 20 countries and regions. In order to reach the requirements of sustainable development strategy proposed by the state and to promote the steel pipe industry, the Beijing International Steel Tube Exhibition has been playing a positive role in promoting the development of petroleum, petrochemical, shipbuilding, construction, automotive, electrical, hydraulic and mechanical industries.

The scope of the exhibition includes:

Steel tube products: large-diameter pipeline, gas pipeline, seamless steel tube (square, rectangular, circular

stainless steel tube), cone-shaped seamless steel tube, profiled seamless steel tube, and many others. Stainless steel welding pipe units, cold-formed series of welded pipe forming units, HF welded pipe units, hot dip galvanising lines, shearing welders, spiral welded pipe mills and large-calibre LSAW units.

Seamless steel tube units: steel pipe straightening machines, punchers, two roll cold-rolling units, cold-drawing machines, three-roll units, five roll cold-rolling units, periodic rolling units, and automatic rolling units.

Seamless tubes, pipe joints, and forging tube system, casting tube, filter tube, non-metallic materials, all kinds of valves, flanges and valves.

Ancillary equipment: auxiliary materials of steel pipe, infrared thermometers, printing marking machines, cleaning

equipment and pipeline inspection technology.

During the exhibition the organising committee will arrange a series of symposiums for technical and commercial presentation and discussion.

China (Beijing) International Steel Tube Industry Expo

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The China International Exhibition Center

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http://www.norpicofittings.com

Messe Düsseldorf Tube and wire 2010 success, and looking ahead to 2012

Almost 69,200 trade visitors from over 100 countries attended the trade fairs Tube and wire in April 2010, to gather information on the latest machinery, equipment and products from the wire, cable and tube processing industries. Over 2,400 companies exhibited at the combined event.

Constructive talks, avid interest in purchasing and actual deals, as well as expectations regarding interesting follow-up business, all characterised the atmosphere. For wire, 63% of trade fair visitors travelled to Düsseldorf from abroad, and for Tube the international proportion of visitors stood at 55%.

Following the successful close of the 2010 event, the new trade fair dates for 2012 have been set: the exhibitions will once again be held concurrently in Düsseldorf, from Monday 26 to Friday 30 March.

Constantly updated information for exhibitors, visitors and press representatives can be found in the periods between fairs on the two web portals: www.tube.de and www.wire.de

Messe Düsseldorf
– Germany
info@messe-duesseldorf.de
www.messe-duesseldorf.de



The Tube 2010 entrance hall

Swagelok acquires RHPS BV

Swagelok Company has acquired the shares of RHPS BV as part of its strategy to broaden the company's offering of products and services for fluid system technology customers.

Located in Nieuw Vennepe, The Netherlands, RHPS is a manufacturer of high-quality pressure regulator products used mostly in oil and gas, chemical/ petrochemical, alternative fuels, semiconductor, biopharmaceutical, and other demanding applications. Terms of the purchase were not disclosed.

"We are excited to welcome the RHPS team to Swagelok," said Arthur F Anton, Swagelok president and chief executive officer.

"We think the two cultures are a natural fit and have similar values including the passion to truly understand the needs of our customers and act on them."

For more than 20 years RHPS has been designing and manufacturing a range of relief valves, back-pressure, and pressure reducing regulator products.

"The RHPS acquisition allows us to offer a more robust regulator portfolio," continued Mr Anton.

Headquartered in Ohio, USA, Swagelok Company is a developer and provider of fluid system solutions, including products, assemblies, and services for the research, instrumentation, pharmaceutical, oil and gas.

Swagelok Company –
USA
www.swagelok.com

Obituary: Gerd Edgar Wuppermann

It is with deep regret that the employees of the Wuppermann-group have learnt the sad news that their executive board member Gerd Edgar Wuppermann passed away at the age of 60 on 30 March 2010, following a tragic accident.

By his high commitment, his distinctive expertise and his management competence he strongly contributed in his function as board member sales to the successful development and growth of the family-owned Wuppermann-group. The company has been active in the processing of steel since 1872. Gerd Edgar Wuppermann also played

a valuable role as spokesman of the board of management. Furthermore, he led as chairman the family federation Familie Wuppermann eV, which was founded in 1935.

Gerd Edgar Wuppermann joined the Wuppermann-group on 1 April 1981. In July 1985 he was appointed chief executive director of STABA Wuppermann GmbH, and in 1993 also took the position of chief executive director of Wuppermann GmbH. After the legal transformation in Wuppermann AG, Gerd Edgar Wuppermann was appointed executive board member in January 2001.

The Wuppermann-group appreciated Mr Wuppermann's successful management style. He highly influenced the group's welfare and always enjoyed excellent recognition and esteem in the strong and trustful relationship with internal and external partners. With his integrative strength and his diplomatic talent, Gerd Edgar Wuppermann was always an important and dignified representative of the Wuppermann-group.

Wuppermann AG
– Germany
info@wuppermann.com
www.wuppermann.com

Hydratight appoints new team members

Global joint integrity specialist Hydratight has appointed a new member to its product marketing team. Paul Hughes joins the company as connectors product manager, particularly responsible for the company's Morgrip mechanical pipe connectors.

In his new role, Mr Hughes will focus on managing the current Morgrip portfolio, analyse market opportunities and develop innovative new products to maximise those opportunities. "This is an exciting and challenging role," said Mr Hughes. "I'll be working closely with a strong and vastly experienced team to expand our presence in the market with the development of the next generation of connectors."

Mr Hughes has extensive engineering experience in the oil and gas industry, and his most recent role, in business development, has given him a thorough understanding of the market. "Paul's combination of engineering expertise and business development experience will be invaluable as he takes our Morgrip business forward," said Hydratight's global marketing leader, Chris Mitchell.

The company has also appointed Juergen Schimohr as account manager responsible for promoting the company's wind product range. Mr Schimohr will be working with OEMs, contractors and service companies in the wind-energy industry to demonstrate Hydratight's products and engineering expertise.

Mr Schimohr has extensive experience in several engineering and sales disciplines, including 16 years in sales of earth-moving machines and other heavy plant and torque and tension equipment. He worked in the wind-energy industry for a decade before joining Hydratight, and before that was leader of the training centre of a German torque and tension company.

"Juergen is an important addition to our team," said Gavin Coopey, Hydratight's

global powergen leader. "His experience in wind energy will be invaluable as we develop our product range and market share in that sector."

Though he will be concerned principally with business opportunities in the EMEA region, Mr Schimohr will also work with Hydratight operations in the USA and Asia Pacific to develop opportunities.

Hydratight – UK
www.hydratight.com



Paul Hughes

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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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McElroy releases new catalogue and guide

McElroy has released the seventh edition of its polyethylene pipe fusion catalogue and reference guide. The guide is often regarded in the industry as a prominent sourcebook for polyethylene pipe fusion equipment, accessories and information.

The McElroy Fusion Catalog and Reference Guide includes information on the full range of McElroy fusion equipment and an expanded reference section. The latest catalogue also features the details and specifications of more than 30 new products.

Registration for a free copy of the catalogue is possible through the McElroy website (www.mcelroy.com/catalog) or by calling +1 918 836 8611. The catalogue can also be downloaded from the website.

The updated catalogue is divided into different sections that include fusion machines, productivity tools, accessories and reference. The catalogue also introduces the DynaMc™ line of equipment. This new line offers smaller, rugged machines that still offer robust features. The DynaMc range consists of hand pump (HP), electric pump (EP) and automatic machines.

Pipe fusion is a process that joins two pieces of thermoplastic pipe together with heat and pressure. Commonly associated with high-density polyethylene pipe (HDPE), the butt fusion process starts by facing or shaving the pipe ends simultaneously so that they can be joined together with heat to create a continuous, sealed pipeline. The welding of the pipes is accomplished by using a hot plate in

contact with the pipe ends, which heats the plastic to a molten state. After its removal, the ends are pressed together under a controlled force to form a weld that is as strong as or stronger than the pipe itself. Third-party industry research indicates that HDPE pipe and joints can have a lifespan of more than 100 years.

McElroy Manufacturing, Inc – USA
fusion@mcelroy.com
www.mcelroy.com



McElroy's new catalogue is now available

Schnitzer Steel acquires Golden Steel & Recycling

Schnitzer Steel Industries, Inc has announced that it has acquired substantially all of the assets of Golden Recycling & Salvage, Inc, of Billings, Montana. Schnitzer subsidiary SSI Big Sky LLC purchased the assets and is now operating the facility as Schnitzer Steel Billings.

“Schnitzer’s long term vision remains focused on our growth strategy,” said Don Hamaker, president of Schnitzer Steel’s metals recycling business. “The purchase of Golden Steel & Recycling gives us a presence in the Montana market and positions us for further growth in the region. Golden Steel

& Recycling’s demolition services business nicely complements our core competency of metals recycling and allows us to expand our service and product offerings. We are delighted to have Jim Gallup and his team join us, and we look forward to being active participants in the Billings community. We will continue to look for other recycling opportunities in the region and to grow our business in order to better serve our customers and the communities in which we operate.”

Golden Steel & Recycling has been collecting, processing and recycling scrap metal from the greater Billings

community for nearly 19 years at its current location. Terms of the transaction were not disclosed.

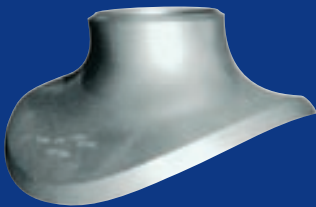
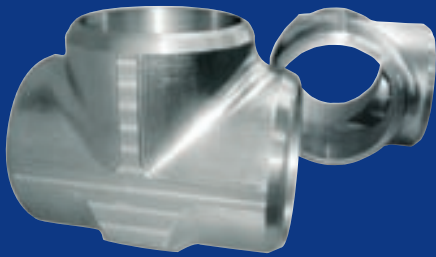
Schnitzer Steel Industries, Inc is one of the largest manufacturers and exporters of recycled ferrous metal products in the United States, with 45 operating facilities located in 14 states throughout the country, including seven export facilities located on both the East and West Coasts and in Hawaii and Puerto Rico. The company’s vertically integrated operating platform also includes its auto parts and steel manufacturing businesses. With an annual production capacity of nearly 800,000 tons, the company’s steel manufacturing business produces finished steel products, including rebar, wire rod and other speciality products.

Schnitzer Steel Industries Inc – USA
www.schnitzersteel.com



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Chinese flavour at Tube 2010

There was a Chinese ambience on the Stellar Tube & Pipe group stand at this year's Tube Düsseldorf. The 100m² stand was designed throughout in traditional Chinese style, and to add further Chinese elements there were Chinese wooden chairs and tables, and even Chinese tea sets, with Jasmine tea available for visitors to the stand.

Chinese classical music was played by two musicians – one playing a Guzheng (or Chinese zither), and the other an instrument from the west, an oboe.

The Stellar group, which has its headquarters in Wenzhou, Zhejiang province, was only established in 2006,

but has seen rapid growth, and turnover by 2008 was already over US\$147m. The group now operates a number of production facilities, and has become a leading Chinese producer of seamless stainless steel tubes and pipes.

As a member of Tsingshan Steel Group, a large producer of stainless steel long products, the company benefits from having quick access to raw materials. Tsingshan Holding Group has its own steelmaking workshop, which ensures a secure supply.

Stellar Tube & Pipe – China
sales@stellarpipe.com
www.stellarpipe.com



The atmosphere was enhanced by Chinese classical music

Brands of the Year Award for Steelex

Steelex (Pvt) Limited, Pakistan, was established in 1979 as a private limited company producing high frequency induction welded MS tubes, pipes and GI pipes from carbon and mild steel coil, for water, oil and gas services, automotive, construction and other engineering applications.

The company has expanded its production facility to create a product size range of ½" to 12" diameter. The company won the second consecutive

Brands of the Year Award 2009 in the category of MS and GI pipes in Pakistan.

Steelex has been ISO 9001:2000 certified since 2000, and has developed inspection and testing facilities for products at all stages of the manufacturing process, for quality control and assurance. The company currently produces grades of pipes conforming to international standards BS and ASTM.

The plant includes the latest equipment for the manufacture of MS and GI pipes, including slitting lines, cold rolling mill, high frequency welder, looping line, pipe mills, flying cut-off saw and straightening machines, threading machines, end facing machines, bevel machine, bending machine, and developed hot dipped galvanising process.

Steelex (Pvt) Limited – Pakistan
steelex@cyber.net.pk
steelex1@hotmail.com

Increasing tube inspection throughput

PFW Aerospace, UK, has installed four ITP Group Tube Inspection systems at its site, to cope with the stringent inspection requirements of Rolls Royce Aero Engines.

On PFW's latest contracts, Rolls Royce only needs supply 3D CAD models of tube assemblies, without the need for fixtures or drawings. PFW uses the ITP Group Pipe Software to extract the tube and fitting data from the CAD model and then export the data to its tube benders and CMMs

(coordinate measuring machines), with no keyboard data entry required. The ITP Group systems are used for initial tube inspection, fitting orientation and final pass-off.

Rolls Royce praised PFW Aerospace's achievements, stating that the integrated production system based around the ITP Group machines was groundbreaking, and that they had not seen the level of throughput achieved at any other company. This increase in capability has seen PFW's tube

assembly production quadruple in the last 12 months.

PFW Aerospace production engineer Adam Treadwell said, "We could never have fulfilled the Rolls Royce contract without the ITP Group systems. They're outperforming all other tube inspection systems within the group."

ITP Group Ltd
– UK
itp@itpgroup.co.uk
www.itpgroup.co.uk

RTI elects vice-president

RTI International Metals, Inc has announced that James L McCarley has been elected executive vice president – operations, effective 17 May 2010. Mr McCarley will report to the company's vice chair, president and CEO, Dawne S Hickton.

Mr McCarley's career has spanned over 22 years of service in manufacturing, including experience encompassing design, operations, and business management. Formerly, he was division president at Wyman Gordon, a division of Precision Castparts Corp, a global manufacturer of complex metal components. In this division president role, he was responsible for the performance of four domestic and three international manufacturing operations, collectively representing over \$1.1 billion in annual revenue with forging product lines that serviced the aerospace and energy markets. Jim is a graduate of Texas Tech University with a Bachelor of Science degree in electrical engineering.

"I am very pleased to have Jim join the executive management team at RTI," said Dawne Hickton. "His breadth of experience and proven operations know-how will greatly strengthen RTI's overall organisation. One consistent achievement throughout his career has been successfully providing the strategic and tactical leadership necessary to increase production outputs and improve cost structures, operating profit, and overall working capital."

RTI International Metals, headquartered in Pittsburgh, Pennsylvania, is one of the world's largest producers of titanium mill products and a global supplier of fabricated titanium and speciality metal components for the international market. Through its various subsidiaries, RTI manufactures and distributes titanium and speciality metal mill products, extruded shapes, formed parts and engineered systems.

RTI International Metals, Inc – USA
www.rtiintl.com

Sandvik concludes oil agreements

Sandvik Materials Technology has concluded a number of agreements for the delivery of high value-added seamless tubes to the oil/gas industry. The combined value of the agreements is SEK 700m, and deliveries will be made during 2010.

The customer is Norwegian company Aker Solutions, and the tubes will be used for extraction of oil in projects around the world. The tubes, to be delivered in continuous lengths of up to 30,000m, will be used in umbilicals, which are employed for such applications as remote operation of oil wells at large depths.

"The oil/gas industry places extremely high demands on product quality, performance and service life," said Peter Gossas, president of the Sandvik Materials Technology business area.

Sandvik AB – Sweden
www.sandvik.com

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Radius Systems enters joint agreement with Senaat



Radius Systems pipes and fittings will soon be manufactured in the UAE

Infrastructure plastic pipe systems manufacturer Radius Systems has struck a joint venture agreement with Abu Dhabi-based Senaat Group. The Emirates Conversion Industry LLC (Senaat) partnership is one of the emerging investment companies in Abu Dhabi. It has investments in various sectors, including metals, marine, infrastructure and petrochemical downstream developments.

The agreement will bring Radius Systems' manufacturing expertise to the United Arab Emirates and will lead to full-scale manufacturing in Abu Dhabi. It is part of a planned global expansion programme by UK-based Radius Systems, which had a management buyout in 2008 from previous parent Uponor of Finland.

Radius Systems will initially introduce high-performance plastic pipes and

fittings systems for potable and non-potable water, gas and telecommunications to this key growth area. By providing products – and subsequently full production processes – Radius Systems will bring the benefits of world-class products and expertise to companies operating in the Gulf region.

Senaat's investment objective is to develop industrial downstream projects. These will contribute significantly to the achievement of the Abu Dhabi government's Economic Vision 2030.

Radius Systems CEO Stuart Godfrey, who confirmed the agreement had been 'some time in the making', said, "We were looking for a professional partnership to expand our international operations. The fit with Senaat was perfect, with our backgrounds in oil and gas derivatives." Andre van Uffelt, CEO at Senaat, commented, "We are proud to have a

partner like Radius Systems investing and delivering a commitment into our region. Based on the Economic Vision 2030 we aim to set up industries offering long-term, sustainable solutions for the Emirate of Abu Dhabi. With Radius Systems we have a partner offering technology, processing and application expertise. Furthermore, with their product portfolio, we are in a position to enhance and improve piping systems for oil and gas applications. It is becoming increasingly important to offer high quality systems for sewage and drinking water."

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



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Socket Weld Flange/Weld Neck Flange/Threaded Flange
Plate Flange/Slip On Flange/Lap Joint Flange/Blind Flange
Loose Plate Flange/Integral Flange

Material:

Stainless Steel
F304 F304L F304H F316 F316L F316H F317 F317L F321 F51 F53
Duplex Stainless Steel
UNS S31803(SAF2205) UNS S32750(SAF2507) etc.
Alloy Steel
40Cr 5140 SCr440 41Cr4 F9 F11 F22 42CrMo 42CrMo4
Carbon Steel
A105 A350 SS400 S20C C22 IC22 C22.8 C21 Q235 Q345 20# etc.
Titanium
Gr1 Gr2 Gr3 TA1 TA2 TA3

Standard:

ASME/ANSI/API/AWWA/DIN/BS/JIS/JPI/EN/AS
Non-standard Flanges can be supplied

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E-mail: bufheil@dssamerica.us

products & developments



The Sitrans FUT1010 ultrasonic flowmeter from Siemens

New ultrasonic flowmeter for the hydrocarbon industry

Siemens Industry Automation Division has developed the Sitrans FUT1010, an ultrasonic flowmeter for the hydrocarbon industry. It features the nearly maintenance-free TransLoc mounting system, which allows the transducers to be mounted on the outside of the pipe, preventing contact with the medium.

This approach allows the externally mounted transducers to be calibrated for higher accuracy, and also has the additional benefit that it alleviates clogging of cavities by high paraffin liquids, which is typically seen in conventional flowmeters used in hydrocarbon applications. TransLoc ensures less maintenance and downtime, leading to low cost of ownership and improved return on investment (ROI).

The combination of WideBeam ultrasonic transit time flow technology with the delivery of the entire meter run,

including the segments for upstream, downstream and the flow conditioner, can be calibrated to American Petroleum Institute (API) and American Gas Association (AGA) specifications. It also ensures that the Sitrans FUT1010 achieves highly accurate flow measurement.

Sitrans FUT1010 is available in two versions: one for gas and one for liquids measuring viscosities up to 2,800 cSt (centistokes). Its versatility makes it suitable for up-, mid- and downstream measurement tasks, such as check metering, process control and underground storage surveillance. Since it can be installed on small as well as large pipes it is suitable for many applications, including custody transfer applications that require laboratory calibration.

Siemens AG – Germany
www.siemens.com/sitrans

Payoff and take-up stands

Queins & Co GmbH specialises in heavy duty payoff and take-up stands, to be used for unwinding/winding of tubes (stainless steel, PEX heating tubes, etc). These tubes are mainly used for the manufacturing of umbilical cables in the offshore industry or as plastic tubes for heating purposes. The machinery is of the floor-traversing type for reel flange diameter up to 3,600mm (141") and reel weight up to 23 tons (50,000 lb). Other models are manufactured for reel weights up to 300 tons.

Queins & Co GmbH – Germany
info@queins.com
www.queins.com



Queins manufactures heavy duty payoff and take-up stands

FEP convoluted tubing eliminates need for splicing

Parker TexLoc offers FEP Convoluted tubing in sizes from ¼" to 4" OD. Unlike PTFE convoluted, FEP Convoluted tubing can be extruded in lengths up to 1,000ft continuous. In addition to standard FEP Convoluted tubing, Mil Spec style SAE AMS-T-81914 is available in regular or close convolution.

The convolutions in the FEP tube create a flexible tube that can turn corners and be routed through tight areas without kinking or collapsing. Spring wire can

be added if additional crush resistance is needed. FEP Convoluted operates in temperatures up to 205°C (400°F) and has good chemical and corrosion resistance. It is also extremely clear, aiding visual inspection of the media flowing through the tube.

Parker TexLoc Convoluted tubing can be customised to the application's requirements, designing around pitch configurations and tolerances to ensure that the product specified suitable.

FEP Convoluted tubing is priced according to size, configuration and quantity. Samples, price quotations and literature are available upon request.

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

Parker Hannifin – USA
www.parker.com

All-round hose protects cables in the food industry

Norres Schlauchtechnik has launched a cable protection conduit suitable for applications in the food industry. The highly flexible Norflex® PUR 401 MHF, made from Pre-PUR® premium polyurethane, recently joined the already broad spectrum of cable protection systems. The new conduit's food-quality wall complies with FDA regulations, and achieves protection up to IP68 according to EN/IEC 60529.

The cable protection conduit is suited for use in the food, pharmaceutical and chemical industries. The Norflex PUR 401 MHF can be used for electrical installations and switch cabinets, installation in switchboard plant, mechanical engineering or as a suction and discharge hose for gaseous and liquid media. It is made from high-quality Pre-PUR polyurethane and is consequently up to five times more resistant to abrasion and tearing than rubber or PVC, as well as being gas- and liquid-tight. The all-round hose has smooth interior and exterior surfaces that ensure simple retraction of the cables and easy external cleaning.

The Norflex PUR 401 MHF has been approved by an independent testing laboratory for the complete hose from an inner diameter of 3mm according to EU Directive 2002/72/EC, including the latest amending Directive

2007/19/EC. It is therefore entitled to bear the EU's glass/fork symbol. The hose features a food-quality wall in line with FDA 21 CFR 177.2600 and 178.2010, EU Directive 2002/72/EC, including the amending Directive 2007/19/EC, German guideline XXXIX BfR polyurethane. Owing to its good flexibility at low temperatures, the pressure resistant hose can also be used in cold environments, down to approximately -40°C.

The rugged all-rounder is odourless and tasteless, softener and halogen-free, and resistant to microbes and hydrolysis. The Norflex PUR 401 MHF exhibits good resistance to mineral oils, chemicals, UV and ozone, and has a breakdown voltage of 30kV/mm.

Norres Schlauchtechnik GmbH & Co KG – Germany
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www.norres.com



Non-halogenated resin for sustainable, high-end FR insulation tubing

Through co-development efforts with SABIC Innovative Plastics, Japan's Nissei Eco Company Ltd has created a solution to reduce the environmental impact of wire harness insulation. ECO-01 tubing is a wire insulation product made from SABIC Innovative Plastics' Flexible Noryl resin, which is inherently flame retardant (FR) and free of environmentally harmful heavy metals. It also provides OEMs of home appliances and other products with high heat performance without expensive secondary operations.

"SABIC Innovative Plastics' Flexible Noryl resin enabled us to develop a breakthrough tubing product to give our company a significant competitive advantage," said Michio

Inamura, chief executive officer, Nissei Eco. "The key to this success was replacing potentially harmful flame retardant materials without sacrificing high performance or raising costs.

"Flexible Noryl resin met all of our requirements for the new ECO-01 product line and, thanks to this exceptional SABIC Innovative Plastics material, our customers are very pleased with what the new tubing has to offer."



Nissei Eco's ECO-01 tubing made with SABIC Innovative Plastics' Flexible Noryl resin

"SABIC Innovative Plastics is intensely focused on developing advanced materials solutions with the environment in mind – from significantly reducing hazardous substances to using up-cycled and bio-source materials," said Cathleen Hess, SABIC's Noryl resin global product marketing director.

"Flexible Noryl resin is an excellent example of this. The material continues to break new ground by providing a unique environmental outcome for the most demanding wire and cable applications, demonstrating SABIC Innovative Plastics' commitment to working alongside customers such as Nissei Eco for environmentally progressive solutions."

Flexible Noryl resin for wire insulation offers OEMs an alternative to traditional polyvinyl chloride (PVC), which contains halogen chlorine.

Flexible Noryl resin is non-halogenated, to help meet global environmental requirements. As measured by the JASO-D-608-92 abrasion test, Nissei Eco found that Flexible Noryl resin has much higher abrasion resistance than that of PVC.

SABIC also states that Flexible Noryl resin surpasses other non-halogenated materials such as flame-retardant polyethylene (PE) in terms of affordability and processing ease.

Because Flexible Noryl resin delivers high-temperature performance and can meet the requirements of UL105C, it does not require cross linking using electron beam radiation – a process that is necessary for flame-retardant PE. Cross linking adds time and cost, and also makes the material stiffer and harder to process.

ECO-01 tubing for wire harnesses has been specified by several home appliance manufacturers in Japan, while Nissei Eco is actively working to gain specifications around the globe.

SABIC Innovative Plastics – USA
productinquiries@sabic-ip.com
www.sabic-ip.com

Galvanised ERW pipes and tubes

Conros Steels manufactures pipes and tubes as per various Indian and international standards, including BS, EN, DIN, ASTM and IS, among others.

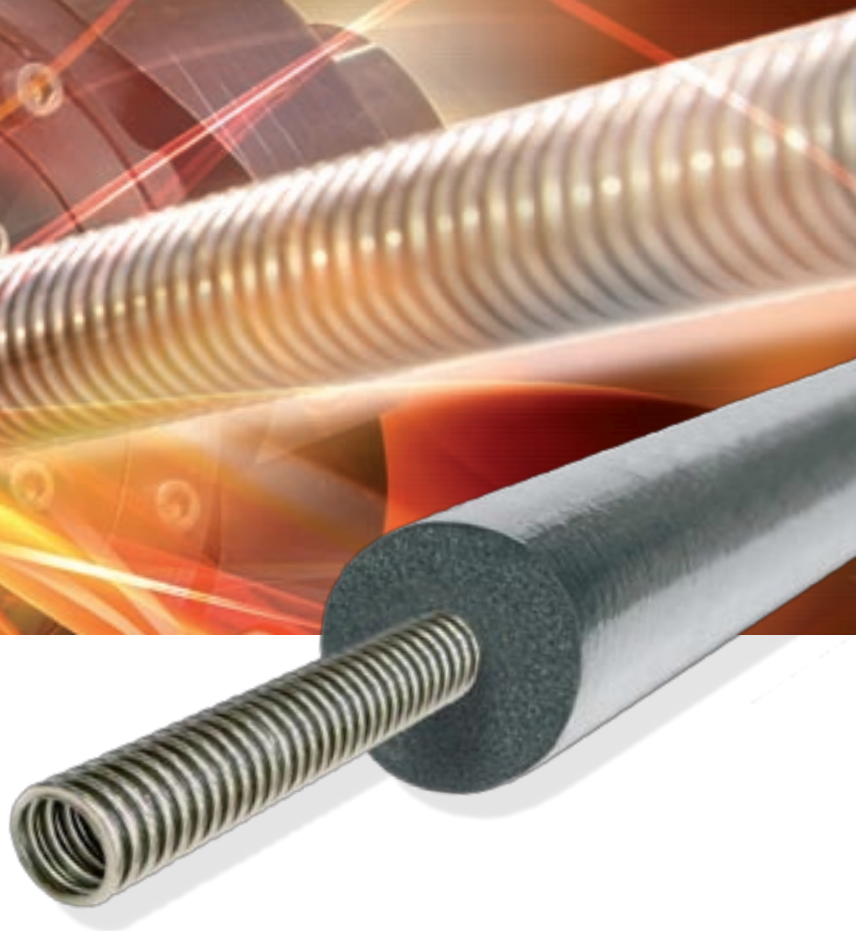
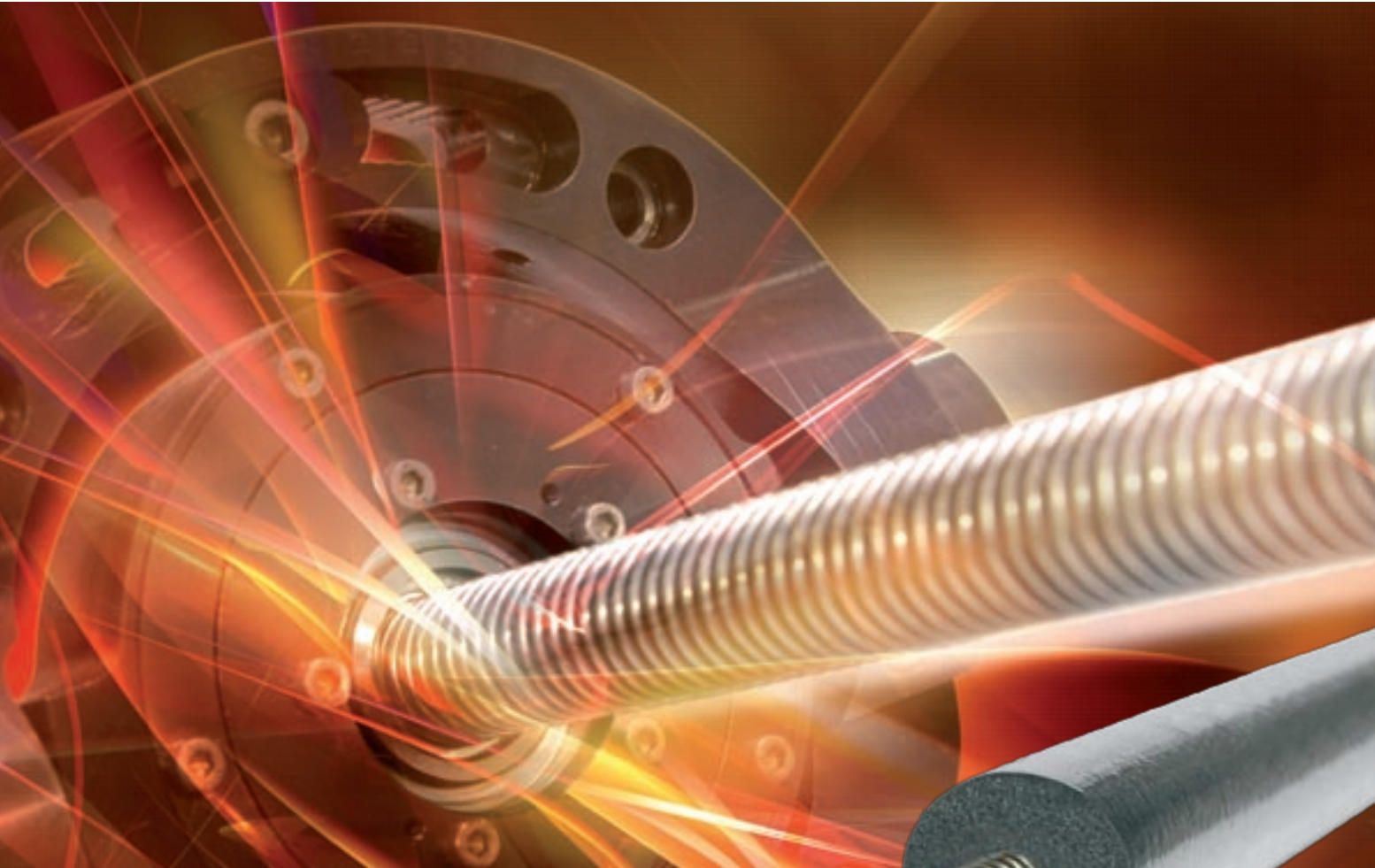
The company specialises in providing large wholesalers around the world with galvanised pipes and tubes. The company's Indian manufacturing facility currently manufactures black and galvanised ERW steel pipes, tubes and hollow sections from 1/2" to 6". The company conforms to the ISO 9001:2008 quality management system.

The QC department ensures that all pipes and tubes are individually inspected for finish and uniformity, then weighed and tested to assure consistency of zinc coating. All material is shipped in sealed containers for protection from the elements and ease of processing upon receipt.

Conros products are suitable for a broad range of applications, including agriculture (sprinklers, drill rods, etc), irrigation (water distribution, submersible pump and water conveyance), structural (scaffolding, fences), industrial (general engineering, pumping applications, auto industry), oil sector (distribution of gas, crude and products), electricity and telecommunications.

Conros Group – India
info@conros-group.com
www.conros-group.com

Tape Forming • Welding • Calibration • Corrugation



Continuous Forming and Welding of Tubes

Experience in metal tape forming & welding for wires and cables enables Rosendahl to offer turn-key solutions also for tube applications. Basis of our forward-looking technology is continuous research and development, supported by close cooperation with our customers and suppliers.

www.rosendahlaustria.com



Tungum tube pipe work for offshore construction

MGI-Imhäuser GmbH, a specialist in tube production and manipulation, manufactures tubes using Tungum – an aluminium-nickel-silicon-brass alloy – for offshore applications.

Highly resistant to seawater and its atmosphere, Tungum resists both stress and crevice corrosion to offer serviceability even at intermittent duty in the highly corrosive ‘splash’ zone. Tungum tube was launched in the early 1920s as a decorative alloy. It was soon realised to be an excellent copper-based engineering alloy, and prior to World War II was a favoured material for many applications, such as military aircraft, ships, ferries and dredgers.

Its non-magnetic and non-sparking properties make Tungum suitable for use in piping high pressure gases, particularly oxygen, where its thermal

conductivity/diffusivity characteristics virtually eliminate the potential dangers present when lesser materials are employed.

Tungum alloy is also a cryogenic material, suitable for chemical engineering and low temperature processes. Its corrosion resistance often enables its use in conveying fluids and gasses containing corrosive elements.

In salt-laden marine atmospheres, 316 stainless steel is susceptible to crevice corrosion and chloride pitting. After just a few years of salt spray exposure it may still look bright from a distance, but closer inspection can reveal signs of imminent failure to hold pressure.

However, according to the manufacturer, Tungum alloy possesses a natural protection mechanism whereby, on exposure to salt spray, a very thin oxide coating is generated over the exposed surface, no more than two thousandths of an inch thick, when complete. The tube becomes discoloured, and may even have a verdigris coating, but under the oxide layer the tube material is perfect and will remain so for a long time.

In one example, Tungum alloy tube remained unscathed despite more than ten years’ marine exposure on a



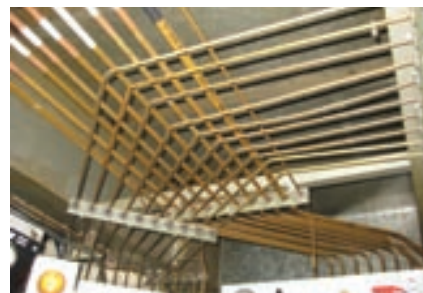
semi-submersible support vessel. The stainless steel section, from a southern North Sea gas platform, shows both crevice corrosion and chloride pitting after barely five years in the same environment, in lines under pipe clamps.

The strength to weight ratio of Tungum alloy compares favourably with other materials. In tubes, this can provide the opportunity to employ smaller, lighter sections, reducing the size and cost of fittings. As would be expected of a material originally developed for use in the hydraulic control systems of aircraft, Tungum alloy is said to have excellent fatigue resisting properties.

Fields of application for offshore platforms and associated specialised vessels include hydraulic and pneumatic control; instrumentation and impulse lines; fire fighting (deluge) control and instrumentation lines; life support systems; and marine auxiliary systems (pedestal cranes and other mechanical handling systems).

The tubes are also of use in offshore dive systems (life support circuits, hyperbaric weld habitats and hydraulic control systems), and marine repair work (replacement of corroded carbon steel deck machinery lines, renewal of cargo valve control lines, and tank wash-down system pipe-work).

MGI-Imhäuser GmbH – Germany
info@mgi-olpe.de
www.mgi-olpe.de



Semi-finished products from Germany

Eumet Metallhandel GmbH specialises in providing semi-finished products in various sizes, qualities and alloys. The company's core business is distributing copper tubes for different applications, such as refrigeration, air conditioning, and plumbing systems for domestic installation as well as for electrical purposes.

Available copper qualities include CW 024 A, CW 008 A / CW 009 A, CW 004 A and CW 021 A, with other qualities available on request.

Tubes can be produced in accordance with standards EN, AENOR, AFNOR, KIWA, UNE or GASTEC.

The company has customised its product range to meet customer requirements with composite tubes and pipes made from PE-RT and PE-X.

In addition, the company can deliver condenser and heat-exchanger tubes

in alloys CuNi10Fe1Mn, CuNi30Mn1Fe, CuNi10Fe1, 6Mn, CuZn20Al2As and CuZn28Sn1As, as well as SF-Cu. Tubes will meet all relevant standards, for example EN, ASTM, ASME, GHOST, BS and NFA. Eumet's product range also includes tube-sheets and circular blanks/discs for these tubes, manufactured in the same range of alloys.

Eumet Metallhandel GmbH – Germany
eumet@eumet.de
www.eumet.de

Two heads are better than one

InspecTech Analygas Group has provided customised NDT solutions for the tube and pipe industries for over 30 years. The company was recently challenged by a customer's requirement to nearly double the production rate on their off-line ultrasonic test system for API product.

InspecTech modified their existing off-line ultrasonic weld line inspection system by adding a second mechanised test head to the existing gantry. An upgraded master control panel was designed and built as well, with improved logic to manipulate the dual test heads.

The upgraded test cell meets the customer's needs for additional test capacity at a fraction of the cost of a second complete test unit. With a dual test head inspection, one test head inspects two thirds of the tube length, while the second test head tests the remaining third, including the starting end of the tube. The InspecTech off-line ultrasonic weld line test system does not leave untested ends, thus providing 100% inspection. InspecTech has provided flaw detection systems using eddy current, flux leakage and ultrasonic technologies in on-line and off-line applications for international markets.

InspecTech Analygas Group – Canada
sales@inspectech.ca
www.inspectech.ca

Looking For Regional Agencies All Over The World

HONGDA SEAMLESS PIPE MANUFACTURER

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.A; ASTM A213 T11, T12, T22; DIN1629 ST37.0, ST52.3; DIN17175 ST35.8 GR.1; 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

Guangzhou Hongda Steel Tube Co., Ltd.

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Email: hongdasteel@21cn.com hongdacn@21cn.com
hongda@hongda-steeltube.com
Website: www.hongda-steeltube.com www.junjia-steeltube.com

ERW mechanical steel tubes

Tubular Steel Inc is a precision ERW mechanical steel tube producer with two locations in Toronto, Canada. The company is able to roll mild steels, high strength low alloy, ultra high strength low alloy, and dual phase materials with outside diameters from 8 to 76.2mm, and gauges from 0.7 to 3mm.

Tube mills designed with the company's tube fabricating customers in mind allow

Tubular Steel Inc to offer tight tolerances, whether the tube is round, square, rectangle, or one of the company's unique shapes.

Tubular Steel's extensive R&D efforts allow it to process ultra high strength and dual phase materials to help customers achieve their goals in reducing the weight of their products. Small diameter, heavy wall tube is a speciality. The company

can manufacture tube without secondary straightening at 12mm OD and 2.5mm wall thickness in any weldable grade up to 800 MPa tensile strength.

Tubular Steel currently supplies automotive, healthcare, lawn and garden, fitness, furniture and other industries. The company's well-trained employees are able to work with tube fabricators on solutions to their process challenges.

Tubular Steel Inc – Canada
tsi@tubularsteel.ca
www.tubularsteel.ca

Steel tubes from China

Huacheng Corporation mainly specialises in the manufacture and marketing of precision cold drawn/rolled seamless, cold drawn welded, electrical resistance welded and special shape steel tubes to EN, ASTM, ASME, DIN, BS, JIS, GB and other standards. The size range is 6 to 114.3mm OD, 0.8 to 15mm wall thickness, with a maximum length of 24m.

Huacheng has five mills with a total capacity of 60,000 tons of cold drawn/rolled seamless steel tubes, 50,000 tons of electrical resistance welded steel tubes, 30,000 tons of cold drawn welded

(DOM) steel tubes and 30,000 tons of cold drawn special shape/large diameter steel tubes.

The tubes can be widely used in power plant boilers, heat exchangers, automobile components, mechanical structures, bearing machining, shipbuilding, bridge construction, petroleum exploration, transportation and other related fields.

Jiangsu Huacheng Industry Pipe Making Corporation – China
beststeel@gmail.com
www.hc-pipe.com



Huacheng specialises in the manufacture of precision steel tubes

Expanded range of UVaCorr instant-cure, corrosion-preventative coatings

UV-curable coatings company DSM Desotech is expanding its offering of UV-curable corrosion-preventative coatings to the tube and pipe industry in Europe.

The UVaCorr® product line, which has been widely used for the past 15 years throughout North America, includes both clear and coloured coatings designed for the protection of steel tube and pipe, particularly during storage and transport to end-use destinations.

"DSM has more than 40 years of expertise in UV-curable materials and a passion for seeing this high-performance, green technology extended to markets that could benefit from it most," said Jim Reitz, innovation director, DSM Desotech. "The European tube and

pipe industry's growing transition to efficient UV coating technology represents a major commitment to eco-friendly, sustainable manufacturing. We have been actively listening to, and formulating for, the specific needs of producers in this region."

The advantages of UVaCorr products, which are now certified for use in the Venjakob® Ven Spray Pipe system, include instant cure for high-speed processing; 100% solid coatings for higher applied coverage and no VOCs; better salt spray resistance for enhanced performance; and smaller equipment footprint with reduced energy requirements.

The UVaCorr product line also boasts the backing of global UV-curable materials

leader DSM. "Leveraging our proven product portfolio, strong customer base and extensive UV application experience, DSM also provides global R&D resources, market channels and manufacturing facilities – which includes DSM Desotech's production facility in Hoek van Holland, the Netherlands," commented Paul Jellema, UVaCorr business development manager Europe. "We're dedicated to delivering a strong partnership to the growing European tube and pipe market."

DSM Desotech – USA
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www.dsmdesotech.com

DSM Desotech BV – The Netherlands
info.desotech-europe@dsm.com
www.dsmdesotech.com



HEBEI WENLONG PIPELINE EQUIPMENT CO.,LTD



PRODUCT RANGE:	MATERIALS:	STANDARD:
ELBOWS--LR 45DEGREE, 90DEGREE RETURN BENDS--LR SR 180 DEGREE TEES: STRAIGHT AND REDUCING REDUCERS--CON & ECCENTRIC SEAMLESS FITTINGS DIMENSIONS: 1/2"--40" SEAM WELDING FITTINGS DIMENSIONS: 26"--96"	A234-WPB, WPC, WP1, WP5, WP9, WP11, WP12, WP22, WP91, A860-WPHY42, WPHY52, WPHY60, WPHY65, WPHY70, WPHY80 A420-WPL3, WPL6, WPL9, WPL8 A403-WP304L, WP304, WP304H, WP316, WP316L, WP316H	ANSI B16.9, ANSI B16.28, MSS-SP-75 DIN2605-1, DIN2616-2, DIN2615-1, DIN2615-2 DIN2616-1, DIN2616-2 EN10253-1, EN10253-2



Hebei Wenlong Pipeline Equipment Co.,Ltd

Address: East of cangyan road, north of yanshan county, cangzhou city, hebei province,
China No.28 Wuliyao industrial area, yanshan county, cangzhou city, hebei, China



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Quaker makes move into Chinese tubular market

Quaker Chemical Corporation is a provider of process chemicals, chemical specialties, services and technical expertise to a wide range of industries, including steel, automotive, mining, aerospace, tube and pipe, coatings and construction materials.

Tube and pipe capacity in China has increased fivefold in the past decade, with China producing nearly half of the world's tubular goods. This segment is a key strategic growth segment for Quaker. "We draw on our process expertise, proven solutions, and technology from around the world to act as a 'front-to-back' supplier of lubricants, coolants and cleaners [for the front-end process], and a complete portfolio of rust preventives and final coatings at the back end," commented Karl Kunkel, Quaker's global director of strategy.

Quaker currently supports many tube and pipe customers throughout China. In the North, Quaker supplies a significant

amount of welded pipe forming fluids, threading and hydrotesting fluids, and UV curable coatings. In the South, Quaker supplies water dilutable rust preventives, as well as threading and hydrotesting fluids. Quaker is looking to expand into China's seamless mills with both Quintolubric® fire-resistant hydraulic fluids and customised hot rolling lubricants.

"We have established ourselves as a trustworthy and committed partner in China," commented Albert Ma, business director of Quaker Asia Pacific. "We are targeting growth within additional ERW forming lines, and UV-curable corrosion preventives. In particular, UV opportunities are a perfect fit for Quaker, as they give us the ability to work closely with customers on value-added projects – presenting a true win-win scenario."

Quaker Chemical Corporation – USA
info@quakerchem.com
www.quakerchem.com



Quaker offers chemicals for the tube industry

Leading manufacturer in China for
Hot dip galvanizing
ERW tubes & Galvanized tubes BS1387/ASTM A 53
Spiral pipes API 5L
Highway guardrails (road barriers) for different standards
Steel Structures & frames according to customers' designs

Jiangsu Guoqiang Zinc Plating Industrial Co., Ltd.
Tel: 0086 519 87741212 fax: 0086 519 87733270
www.steeltube.info e-mail: dsicoke@hotmail.com

An DIN EN ISO 9001: 2000 (QMS) Company readily offer the product and services under certification & approval of EIL, UHDE, TDC, GNFC, IFFCO, ISGEC, Atomic Energy of INDIA, ADMA, TAKREER, OMAN Refinery, ADNOC, Lloyds, TUV, TATA Projects Ltd, IRS, SGS, BAX COUNSEL & many other reputed Consultants & TPI Agencies to meet up all the specified and implied requirements to ensure "Quality First..... Customer always"

KRYSTAL STEEL
Manufacturing Pvt. Ltd.
Creating Core Values

Manufacturer & Exporter of
Seamless & Welded
Stainless Steel Tubes, Pipes & 'U' Tubes

PRODUCT RANGE

TP-Type of Tubular Products	Seamless	Welded	'U'-Tubes
* Grades	Austenitic (300) Series & Super Alloy Steel	Austenitic (300) Series & Super Alloy Steel	Austenitic (300) Series & Super Alloy Steel
O.D / N.B	3.175 mm to 219.08 mm & 1/8" NB to 8" NB	6.35 mm to 219.08 mm & 1/8" NB - 8" NB	19.05 mm to 38.10 mm
Thickness	0.6 mm to 8.18 mm	0.71 mm to 6.02 mm	1.2 mm to 3.05 mm
Length / Leg Length	Upto 22 meters	Upto 18 meters	Upto 8 meters
ASTM Std (equiv. to ASME & DIN)	A213 / A269 / A270 / A312	A249 / A269 / A270 / A312	A688 / A213 / TEMA

* Grades: In addition to Austenitic 300 Series, we now manufacture to cater various applications of P11/T11, P12/T12, P22/T22, Monel 400 (UNS NO 4400), 904 L (UNS No8904), Duplex Steel (UNS No 32205, 31803, 32750 etc) and other Super Austenitic Steel Grades also.

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Tel. : + 91 - 22 - 2388 5471, 6639 4035 Fax : + 91 - 22 - 2388 1890
Works: Plot #. KV-2, GIDC Manjusai, Ta: Savli, Vadodara - 391 775. Gujarat, INDIA
Telefax : + 91 - 2667 264 777 / 8

www.krystalsteel.co.in
(e) : info@krystalsteel.co.in / export@krystalsteel.co.in

3m OD pipes jacked for Poland's largest wastewater treatment plant

The Czajka wastewater treatment plant is currently being erected on the right bank of the Vistula River in Warsaw, Poland. After its completion, it will treat 80% of the Polish capital's effluent, and will ensure that no more untreated sewage will harm the flora and fauna of the Vistula – 30% of effluent currently flows directly into the river.

As part of the plan, a collector leading to the plant is also under construction. Due to this project's size, it was broken down into three sections. The first is approximately 5.7km long and realised with Hobas Jacking Pipes OD 3000 (DN 2800), which were installed along the right side of the Vistula, with 1.4km OD 3000 being laid on the left bank. The pipelines meet in the third section, where two DN 1600 lines are inserted in a 4.5m diameter concrete tunnel crossing beneath the Vistula.

The consortium of contractors, Hydrobudowa 9, PRG Metro and KWG (all belonging to the PBG Group), has completed 1,600m of the first pipeline section. One of the challenges faced was the high ground water level that lies around 1 to 2m below the surface, and therefore reaches 4 to 8m above the pipe top. Piles by Larsen were set up around the thrust pits and jet-grouting was added to prevent too much water from pouring in. This made it possible to reduce the volume of water being constantly pumped out, from 200-300m³/h down to 20-30m³/h. Due to the grouted screens, it was also safer to lift the drilling heads in and out of the pits.

On the 840m long part of the first section, the pipes were supposed to be jacked from both ends, meeting in the middle. However, the Hobas pipes could be installed so precisely that the section could be jacked with one single drive and from one side only. The smooth and even outer surface and high stiffness (SN 50000 and 64000) of the relatively light-walled Hobas pipes were significant for this success.

Despite the small friction and low forces, the contractor followed the project plan and erected an intermediate jacking station every 100m. None of these but the last was put into service – although

even higher jacking forces would have been possible on the Hobas Jacking Pipes: SN 40000 – 15,725 kN; SN 50000 – 17,526 kN; SN 64000 – 19,539 kN. The longest single drive was conducted in two shifts. After its completion, the intermediate stations that were replaced by Hobas Tangential Shafts are reused for different sections of the project.

The tunnelling progressed at an average of 3m per hour, with the separator processing 84 tons of soil per hour (42m³/h), and a 3m-long pipe takes roughly half an hour to be jacked. The preparation (disassembly and reassembly of electric cables, slurry pipes and hydraulic hoses) takes 40 to 60 minutes. Considering this, and including breaks for the workers, an average of ten pipes could be put into the ground per day. At this speed it was possible to accomplish the first sections weeks ahead of schedule.

Currently, pipes are continuing to be jacked beneath the main road of the district Białołęka. An open trench would not have been possible here, since the

construction work would have affected traffic on the important six-lane road. The pipeline route runs beneath the middle, the green line, of the road and a single drive over 910m will break the record of the longest single drive in the project.

Two curved stretches with 450 and 900m radii are part of the section and are realised with 1m pipes – the angular deflection being well held within the couplings. The 450m radius is implemented over a stretch of 100m and a laser to measure the inclination of the pipeline can only be used on straight sections. In curves this is done with the help of a gyroscope and water level.

Extra large pipes require extra large manholes: the large-scale Hobas Tangential Manholes, which incorporate two accesses due to their extreme length, are produced and delivered as convenient modular units that can be easily assembled on-site.

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

Aluminium precision drawn small diameter tube

Siddhi Engineers is a manufacturer of aluminium precision drawn small diameter tube used for applications such as cryogenic fuel supply lines for SLV (satellite launch vehicles), automobile air conditioners, condensers, heat exchangers, radiators and ferrules.

The size range is 1 to 110mm OD, with thickness from 0.15 to 10mm. The normal tolerance on OD or ID is ± 0.09 mm, and can be as close as ± 0.02 mm.

The major alloys processed are 1, 3, 5 and 6, and on special request 2 and 7 series can be processed. Small diameter tube up to 20mm can be supplied in coil form, with a maximum coil weight of 30kg.

Siddhi Group – India
siddhiindia@siddhiindia.com
www.siddhiindia.com



Siddhi manufactures small diameter tubes from aluminium

www.tube-southeastasia.com



Feedwater heater tubing and Sea-Cure stainless steel

Plymouth Tube Company is a supplier of stainless steel tubing, and serves the nuclear industry with a variety of products while following stringent testing procedures, including physical and property mechanicals, ultrasonic, liquid penetrate, radiographic examination, helium leak, hydrostatic, visual and dimensional checks, as well as annealing in 100% hydrogen atmosphere.

Since 1967, the company has pioneered the development of feedwater heater tubing with the lowest possible residual stress. With over 325 million feet supplied, the company states that XtraLowStress™ tubing is used in more than 70% of all US feedwater heater applications. Proprietary processes produce tubing with low residual stress and low susceptibility to stress corrosion cracking, having less than 5 ksi residual stress in the straight portion of the tube.

Plymouth also produces Sea-Cure® stainless steel, used in electric power plant condensers and BOP exchangers, various heat exchangers in chemical, petrochemical, and refining applications, desalination heat exchangers and flue gas handling systems such as the secondary heat exchangers in high efficiency furnaces.

Plymouth Tube Company – USA
info@plymouth.com
www.plymouth.com



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www.read-tpi.com

Safety clamp systems for hoses with electrostatic discharge capability

The use of wall materials that are conductive or capable of electrostatic discharge is often recommended for transport hoses in hazardous areas. Last year, Norres Schlauchtechnik unveiled its new, permanently antistatic PUR AS hose family with electrostatic discharge capability.

The Norres Connect Safety Clamp Systems 230, 231 and 232, which allow polyurethane hoses to be clamped to all standard connection types, are now also available for this family. These innovative techniques for connecting commercially available fittings to polyurethane hoses lead to a reduction in maintenance, energy and process costs.

All products in the Norres Airduc®, Protape® and Barduc® PUR AS family are made from a special wall material. Hoses manufactured in this way impress with a permanent electrostatic discharge capability $< 109 \Omega$ as well as a milky transparent surface through which the delivered material is clearly visible. Conventional transport hoses with these properties often only achieve these specifications with the help of migrating antistatic material and carbon blacks.

It is a known problem of antistatic material that its effect is exclusively attributable to its migration to the hose surface, leading to an accumulation of moisture from the ambient air. However, when solids are conveyed, the antistatic material that migrates to the inner surface is continuously abraded, with the result that the antistatic is 'leached

Airduc PUR 356 MHF-AS reinforced clamped in the Connect Safety Clamp System 230 for thick-walled polyurethane hoses



out' and the discharge effect is gradually weakened. The antistatic material can also be absorbed by the product being conveyed.

The fact that hoses whose conductivity is achieved by adding carbon blacks are also coloured black is a further drawback. This obscures the user's view of the product being pumped, and the conveyed material may be contaminated due to wear. Since the mechanism of action that is responsible for the electrostatic discharge capability is not linked to migration, there is no contamination of the conveyed material and no deterioration in the electrostatic discharge effect.

The Connect Safety Clamp System 230 for thick-walled polyurethane hoses was developed for loading and unloading silo vehicles. It clamps the electrostatic discharge-capable Airduc PUR 356 MHF-AS reinforced hose with a diameter of 100mm, whereby the metallic supporting spiral is fixed to the metal adapter. The complete system is food grade and capable of electrostatic discharge.

Connect Pressfitting System 232 and Connect Safety Clamp System 231 are two further techniques that can be used to connect the hoses in the AS PUR family. Connect Pressfitting System 232 is predestined for the food, pharmaceutical and chemical industries, while Connect Safety Clamp System 231 is intended for industrial applications, for example in plastics production. The

Connect Safety clamp system 230 for thick-walled polyurethane hoses, used to load and unload silo vehicles



hose's metallic insert is exposed and contacted with the adapter when the systems are assembled. Clamping the shells of the Connect Safety Clamp System 231 or pressing the sleeves of the Connect Pressfitting System 232 together creates a secure connection capable of electrostatic discharge.

The Connect Pressfitting System 232 is compatible with the Airduc PUR 355 MHF-AS and Airduc PUR 356 MHF-AS hoses, which are food grade and capable of electrostatic discharge. The Connect Pressfitting System 231 can be combined with the electrostatic discharge-capable Airduc PUR 355 AS and Airduc PUR 356 AS hoses. Thanks to these compatible clamp systems, the electrostatic discharge-capable hoses in the AS PUR family can be used in hazardous areas in almost any application including bulk material technology through chemicals.

Clamping the hoses with the Connect Safety Clamp Systems offers several advantages: hose clamps are often used to connect externally corrugated spiral hoses to adapters for a wide variety of applications. Under high pressure, however, this inevitably entails a risk that the adapters could become displaced or the system gradually loses its tightness. Particularly in hazardous areas, the dangers this can pose should not be underestimated. Many popular coupling and connection solutions, such as milk tube, aseptic, TRI-Clamp, Kamlok, Storz or tank truck couplings and fixed or loose flanges, can be connected quickly, easily and securely to the hoses in the AS PUR family using the Connect systems.

**Norres Schlauchtechnik
GmbH & Co KG** – Germany
info@norres.de
www.norres.com

Beta LaserMike showcases solutions for precision measurement of medical tubing

Beta LaserMike, a provider of precision measurement and control solutions, displayed its portfolio of system solutions for accurately measuring medical tubing at Medical Design & Manufacturing East 2010, held in New York in June. Attendees at the company's stand were able to see a first-hand demonstration

of high-precision, non-contact measurement solutions for improving medical tubing production efficiencies and ROI.

The company exhibited a range of system solutions, from ultrasonic to laser-scanning technologies, that enable manufacturers to accurately and reliably measure any configuration and dimension of medical tubing.

Beta LaserMike's UltraScan system is a powerful ultrasonic gauge that provides non-contact precision measurement of medical tube wall thickness, eccentricity, diameter, and ovality, while AccuScan is an advanced laser gauge that offers non-contact measurement of diameter and

ovality for increased manufacturing accuracy. As a replacement for error-prone and high-maintenance contact tachometers, the company's LaserSpeed system is a non-contact laser encoder that directly measures length and speed to +0.05% accuracy.

Other Beta LaserMike measurement and control solutions include BenchMike, a table-top system that provides fast, accurate, and repeatable measurements of cut cable samples and immediate feedback for out-of-tolerance conditions; DataPro 5000, a simple to operate process controller and data management system that keeps production processes and product quality under control; and AccuNet, comprehensive, supervisory networking software for multi-gauge applications.

Beta LaserMike – USA
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Pipes with increased resistance to slow and rapid crack propagation

Owing to refinements made to the thermoplastic polyethylene and the pipes and fittings manufactured from this material, the fields of application of these products have increased. Pipes, fittings and customised components can be used in water supply and disposal networks with pipe laying methods that were inconceivable only 20 years ago.

In the past, the properties of PE for industrial applications as well as water supply and disposal systems were developed with regard to internal pressure resistance. This is reflected by the basic standard DIN 8074/75 – polyethylene (PE) pipes – PE 63, PE 80, PE 100 and PE-HD.

In this context the material designation and the load classification for pipes refer to internal pressure creep rupture strength (MRS = minimum required strength) for 20°C, 50 years and the test medium water. The underlying MRS figures are 6.3 N/mm² for PE 63, 8 N/mm² for PE 80 and 10 N/mm² for PE 100. Owing to the soft pipe surfaces, PE pipes were embedded in sand, in accordance with the laying recommendations, in order to prevent damage, and hence a reduction in service life.

With the further development of pipe laying methods, when installing new pipes and rehabilitating buried water supply and disposal pipelines it was necessary to improve the material in such a way that a high level of resistance to external mechanical damage would be achieved. This goal was achieved thanks to the development of bimodal PE 100 materials with high resistance to slow and rapid crack propagation. Classification of these materials is set out in PAS 1075 – Pipes made from Polyethylene for Alternative Installation Techniques: Dimensions, Technical Requirements and Testing.

In PAS 1075 (PAS = publicly available specification), which is a supplement to existing standards and guidelines, there are three different types of RC (resistance to crack) pipe.

Type 1: single-layer solid wall pipes made of PE 100-RC

Type 2: pipes with dimensionally integrated protective layers of PE 100-RC

Type 3: pipes with dimensions conforming to DIN 8074/ISO 4065 with an outer protective casing; inner pipe made of PE 100-RC

In order to meet the high demands made by PAS, for the 'Material' approval test the pipe must pass an FNCT (full notch creep test at 80°C and a test stress of 4 N/mm² in a 2% solution of Arkopal N 100 for more than 8,760 hours) and a point load test (under the same test conditions). The approval test for the pipe must take the form of a 2NCT (2 notch creep test at 80°C and a test stress of 4 N/mm² in a 2% solution of Arkopal N 100 for more than 3,300 hours) and a point load test (under the same test conditions but for more than 8,760 hours).

Based on this requirement profile it is possible for the user and planner to select a pipe that is technically and commercially optimised for a particular application.

On the basis of material specifications and proofs it is possible to recommend

using pipes conforming to PAS classification types 1 and 2 for sand bed-free laying of PE pipes, eg in prepared, compactable excavated trench soil. If extreme loads are to be expected, as with the alternative pipe laying methods of pipe bursting and wash-boring, type 3 should be used. This largely corresponds to the recommendations in DVGW code of practice GW 321 (Controllable horizontal wash-boring methods for gas and water pipelines; requirements, quality assurance and testing), and GW 323 (Trenchless renewal of gas and water supply pipelines by bursting; requirements, quality assurance and testing).

Simona AG is a manufacturer of thermoplastic products, with production facilities and sales offices around the globe. The company's product portfolio includes semi-finished products (sheets, profiles, welding rods), pipes and fittings as well as finished parts.

Author: Dipl-Ing Jürgen Allmann, product manager pipes, Simona AG

Simona AG – Germany
pipingsystems@simona.de
www.simona.de

Shell & Tube and Air-Blast heat exchangers

Applied Cooling Technology Group (incorporating Britannia Heatex Ltd) designs, manufactures and repairs both Shell & Tube and Air-Blast (finned) heat exchangers, and specialises in the use of titanium materials in addition to steel, copper-alloys and stainless steel.

The company has also patented technologies that can help to resolve common longevity issues such as erosion, corrosion and impact damage, including finned tubes and cores, integron finned tubes, roped grooved tubes, tube plugs and inserts, tube-plate facades, U-tubes and coils, ferrules and crane packings, on-site services and CNC finning machines. With manufacturing facilities in both the UK and USA, the company is well-placed to fulfil the demands of the heat transfer industries associated with power generation, marine, petro-chemical, offshore, compressor and other industrial sectors.

Britannia Heatex Ltd – UK
info@britheat.co.uk • www.appliedcool.co.uk

Applied Cooling Technology LLC – USA
info@appliedcool.com • www.appliedcool.com

Agricultural sector to harvest benefit of TPU hoses

A thermoplastic polyurethane (TPU) from Huntsman has been used by Papurex W Büchner GmbH, a leading hose producer, to develop AgrarPur®, a new pneumatic tubing system for the agricultural sector.

Based on Irogran®, a proprietary TPU grade from Huntsman Polyurethanes, AgrarPur hoses are designed to carry compressed air to power specialist harvesting and pruning equipment. Employed widely across farming (prevailing wine or fruit growing), forestry

and professional horticulture in America, the Middle East, Europe and Australia, these machines include vibrating rakes, used to knock fruit and nuts like olives and pistachios off trees, and pneumatic powered shears, secateurs and chain saws for cutting back and trimming branches.

Thanks to Irogran, AgrarPur hoses are claimed to be up to 15% stronger under pressure than conventional polyurethane hoses. They can tolerate high-pressure levels of more than 40 bars and have

a standard working limit of 16 bars, meaning they are less likely to burst, and have a longer lifecycle. Irogran also makes it possible for Papurex to make hoses that are up to 10% longer, enabling farmers to harvest larger areas at any one time.

Andreas Geyer, financial and commercial manager at Papurex commented, "When we began enhancing our agricultural hose portfolio, the opportunity arose to work with Huntsman Polyurethanes. In the past we had heard excellent things about the breadth of the company's TPU offering so knew they would be able to identify the very best possible solution for us to use. When the team introduced us to Irogran, we knew instinctively that we had chosen the right supplier."

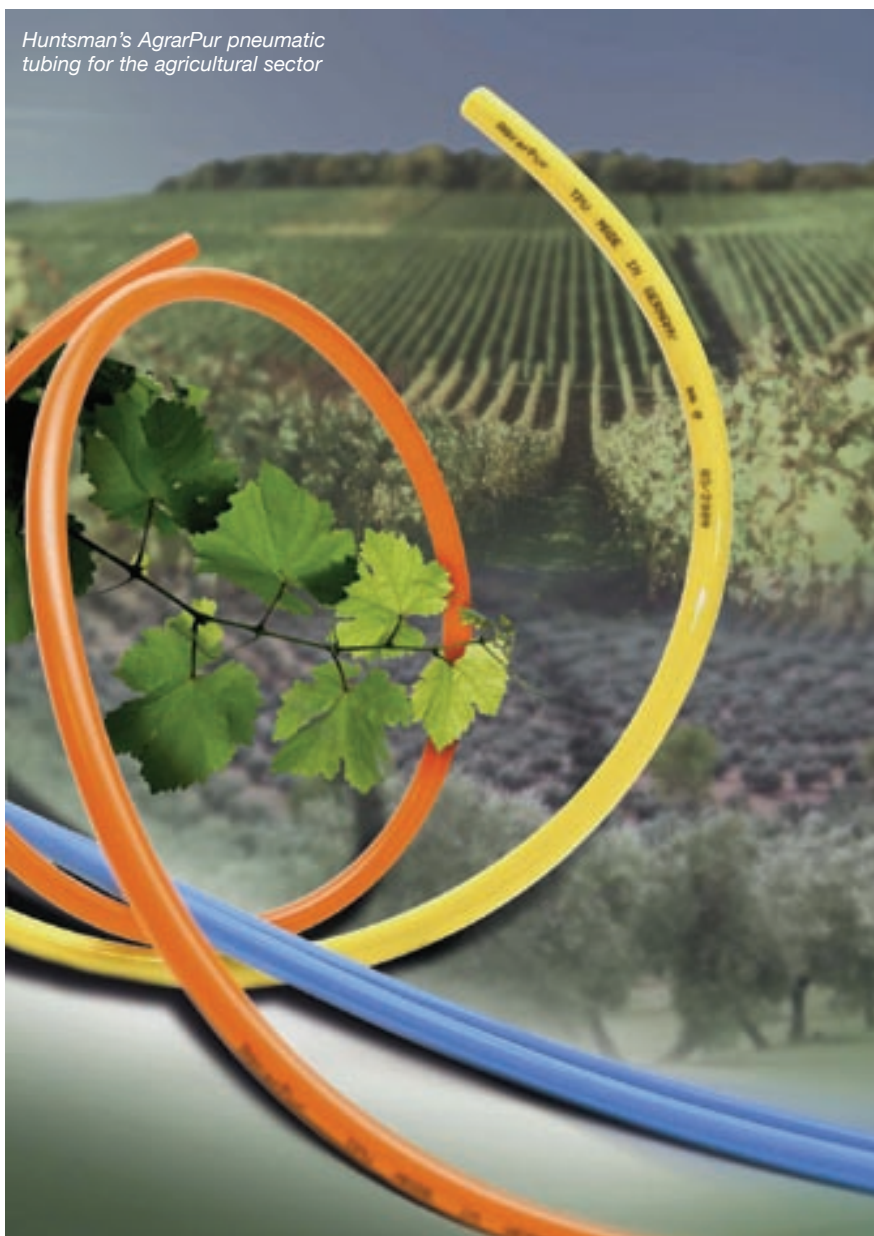
Irogran is a range of robust, plasticiser-free TPUs. It provides AgrarPur with all the attributes commonly associated with polyurethane, including high elongation, abrasion and UV resistance, and intrinsic flexibility, and also offers added benefits such as excellent physical recovery and good temperature performance, even under extremely hot conditions – essential in crop fields in warm climates.

Franz Michel, TPU account manager at Huntsman Polyurethanes said, "Typically used in mechanically challenging applications, Irogran has been widely adopted across the hoses and tubes market as a core raw material that can be easily extruded. We believe that AgrarPur sets a new standard for hoses used in pneumatic agricultural applications and are delighted that Irogran has played such an important role in its development."

Papurex customers – including some of the world's leading manufacturers of pneumatic harvesting and pruning equipment – can purchase AgrarPur hoses with immediate effect.

Huntsman – USA
www.huntsman.com

Papurex W Buchner GmbH – Germany
info@papurex.de
www.papurex.de



Huntsman's AgrarPur pneumatic tubing for the agricultural sector

Innovative solutions for plant construction

Hoesch Schwerter Profile GmbH develops products in close collaboration with individual branches and customers. Special profiles are employed in almost all sectors of the steel-processing industry. Steel-specific solutions are implemented that have to withstand severe loads, in particular in modern power stations or industrial facilities.

Modern industrial processes have so many different requirements for tube materials that these often cannot be fulfilled by one single material. For instance, individual or combined operational demands may trigger different, even contrary requirements in terms of corrosion-, oxidation- or wear resistance of tube surfaces, as well as strength. Constructive problems of this kind may be solved by using compound tubes, which generally consist of two different materials as their outside or inside surface.

To manufacture compound tubes of this type with metallurgical fusion between

the two materials, Hoesch Schwerter Profile uses a special procedure: the tubes are manufactured by extruding a pressed blank or pre-block made of two material components, combining them at the high pressure and the high temperature prevailing during extruding. It is possible, chiefly due to the implementation of a new technology for block manufacturing, to achieve an excellent metallurgical fusion.

Application areas for such compound or composite tubes are cauldrons for regeneration of leach in the cellulose industry, cropping of control rods in nuclear technology, steam boiler pipes in incinerator plants, cooling pipes in furnaces for gravel roasting, pipes in exhaust heat cauldrons, and overheating pipes in fossil-fired steam cauldrons.

The advantages of Hoesch Schwerter Profile's manufacturing process include resistance against wear; multi-



Composite tubes from Hoesch Schwerter Profile

functionality (heat conductivity and corrosion resistance); possibility of further processing, such as bending; and the delivery of finned tubes that can be welded together.

Hoesch Schwerter Profile GmbH – Germany
info@hoesch-profile.com
www.hoesch-profile.com

Orbital welding carriage increases production

The Gullco Pipe Kat® automated pipe welding system with integrated wire feeder unit incorporates 40 IPM welding carriage design with quick action mounting for ease of installation.

The carriage is equipped with a high-speed return feature for faster repositioning of the carriage.

The Pipe Kat is also equipped with a linear oscillator with adjustable weave width and weld joint centre-line adjustment, and all-electronic

motorised functions incorporate jog settings. The system is supplied with a main control box with 7,620mm (25ft) umbilical, wire feed spool capacity of 4.5kg (10lb), with a maximum wire speed of 89-226cm/min (35-633 IPM) and a wire size range of 0.8 to 2mm. The welding torch uses standard consumables.

Gullco International Ltd
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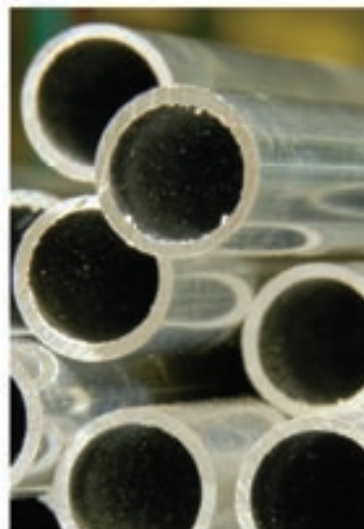


Int'l Tube & Pipe Conference 2010

September 19-21, 2010 Plaza Royale Oriental Shanghai, P.R. China

- Host:** China Iron & Steel Association
Organizer: Metallurgical Council of China Council for the Promotion of International Trade
Co-organizers: Steel Tube Association of China Steel Construction Society
Cold-forming Steel Council of China Steel Construction Society
Welded Tube Academic Committee of Chinese Society for Metals
Seamless Tube Academic Committee of Chinese Society for Metals
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The Int'l Tube & Pipe Conference is engaged in improving the steel tube product quality, pushing forward the industrial upgrading, expanding the application of steel tube products and propelling the sustainable, healthy and fast development of steel tube industry in China and the world at large. Besides, Int'l Tube & Pipe Conference has proved to be an indispensable platform for the world tube & pipe industry to communicate and exchange experiences & ideas in aspects of production & trade, market & price, consumption & application, technology & equipment, and raw material, etc.



Top-notch speakers confirmed at this stage are:

1. Topic to be advised

Senior Official from China Iron & Steel Association

2. Demand for high performance steel pipe in oil industry

Mr. Li Helin, Academician, Chinese Academy of Engineering, Senior Consultant, Tubular Goods Research Institute, China National Petroleum Corporation

3. Status quo & development trend of China's steel tube industry

Mr. Yin Guomao, Academician, Chinese Academy of Engineering

4. Enhance international competitiveness of line pipe in China

Mr. Wang Xiaoxiang, Director, Welded Tube Academic Committee of Chinese Society for Metals

5. Status quo and development of cold-formed steel and welded pipe in China

Mr. Ding Guoliang, President, Cold-forming Steel Council of China Steel Construction Society

6. Application of steel tube in construction industry and its prospect

Mr. Chen Luru, Consultant, China Steel Construction Society

7. Acceleration of steel tube standard system development to promote industrial structure adjustment

Mr. Cheng Haitao, Vice President, Pangang Group Chengdu Steel & Vanadium Co., Ltd.

8. Analysis of steel tube billet technology, production and market in China

Mr. Zhang Wenji, President, Jiangyin Xingcheng Special Steel Co., Ltd.

9. Construction of seamless steel tube production line in China

Mr. Lan Xingchang, Deputy General Manager, Steel Rolling

Engineering Technology Institute, Capital Engineering & Research Incorporation Ltd.

10. Global development of hot-rolled seamless steel tube mill

Mr. Zhuang Gang, Secretary General, Steel Tube Association of China Steel Construction Society

11. Production, technology and development of UOE welded pipe

Senior executive from Baosteel

12. Demand for boiler tube and its development prospect

Mr. Zhang Rui, Director, Industry Development Dept., Shanghai Power Equipment Research Institute

13. Manufacturing and development of 36000 ton extruder machinery

Mr. Li Hongyan, Vice President, Northern Heavy Machinery Group Co., Ltd.

14. Study on modern high collapse OCTG

Mr. Gustavo Lopez Turconi, Product Engineering Director, Technology, Tenaris

Mr. Juan Carlos Gonzalez, Product Development and Research Director, Technology, Tenaris

15. The latest generation of tube straightening machines—cost and quality improvements in tube finishing lines

Mr. Andreas Zimball, Sales Manager, REIKA GmbH & Co. KG

16. Designing tube mill rolls—turning art into science. Optimizing cage forming systems

Mr. Albert Sedlmaier, Managing Director, data M Sheet Metal Solutions GmbH

17. Topic to be advised

Senior executive from Sumitomo

If you need further information, please contact event organizer:

Ms. Zhai Jing, Mr. Meng Jianbin

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The 4th All China – International Tube & Pipe Industry Trade Fair

Shanghai's reputation as the Paris of the East may rest on the vibrancy of its 20-million-strong consumer market, abounding as it does in high- and middle-income earners generating demand for the best of imported wares. But the largest city in the People's Republic of China serves a much wider constituency than this demographic. Geography has placed Shanghai on China's east coast. Its preeminence in commerce, finance, industry, and communications puts it squarely at the centre of the ever-widening sphere of Chinese influence in the world.

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As the megalopolis of this mega region, Shanghai furnishes the ideal site for Tube China, whose delegates need no convincing of the importance of the Greater China marketplace. China has emerged as the leading destination for manufacturing investment and purchasing by multinational companies in a range of businesses. Of particular interest to those in the tube making industry is the Chinese aviation sector. Industry forecasts predict a 300% increase in air travel in China, from 230 million passengers in 2009 to 700 million in 2020 – and a further doubling to 1.5 billion passengers by 2030.

Tube China 2010 in Shanghai is designed to assist the effort to explore the extraordinary opportunities offered by the blazing Chinese economy – second-largest worldwide and showing no signs of let-up.

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Stainless steel tubes

The qualities for which manufacturers choose stainless steel are well known: resistance to surface pitting and corrosion; high and low temperature resistance; strength and ease of fabrication; hygienic properties and long service life; and, not least, aesthetic appeal. Polishing, etching and embossing will turn this workhorse into a showhorse as if by magic.

A century and more after its “discovery”, stainless steel is still endowing a quite astonishing range of products with these qualities. But the sheer variety of its uses can still surprise.

This versatile metal is also 100% recyclable. More stainless is recycled than paper or glass — making it as modern as tomorrow in a world in which environmental factors will govern more and more of the materials choices made by specifiers.

It is a fair assumption that no other material in industrial use since 1919 will be staking a similar claim.

Stainless steel tubes

New line of welded pipe and tube products

Penn Stainless Products is a supplier and processor of stainless steel flat rolled, bar, structural and tubular products. The company offers a wide range of sheet and plate, heavy or light gauge walls, small or large diameter, square or rectangular tubing to beams, channels and speciality shapes, all of which can be produced from stainless, nickel, 6-moly, duplex or alloy.

The company now offers non-standard welded tubular items in stainless, duplex, nickel, 6-moly and chrome moly materials, in both light gauge and heavy wall thicknesses. The company maintains an extensive inventory of plate and sheet materials to reduce lead times and manufacture with competitive pricing. In addition to production capabilities for non-standard items,

Penn Stainless offers tubular items off-the-shelf, in both seamless and welded product.

Welded pipe and tube products from Penn Stainless are available in a wide variety of grades and ASTM specifications. Made-to-order OD sizes range from $\frac{1}{8}$ " to 96" diameter, while stock sizes range from $\frac{1}{8}$ " to 24" diameter. Available in lengths up to 42ft, Penn Stainless pipe and tube can be specified with wall thicknesses from 0.008" to 3", and square and rectangular sections up to 24" can be manufactured.

In addition to stock and custom-manufactured welded pipe and tube, Penn Stainless offers extensive value-added services, including bevelling,



Pipes from Penn Stainless Products

cutting, flaring and threading. Customers can also request testing such as UT, X-ray, and hydro testing, along with a wide range of additional custom specifications.

Penn Stainless Products Inc – USA
sales@pennstainless.com
www.pennstainless.com

Stainless steel seamless pipe from China

Hillhead is a manufacturer and exporter of stainless steel seamless pipe, and is able to satisfy both large and small orders.

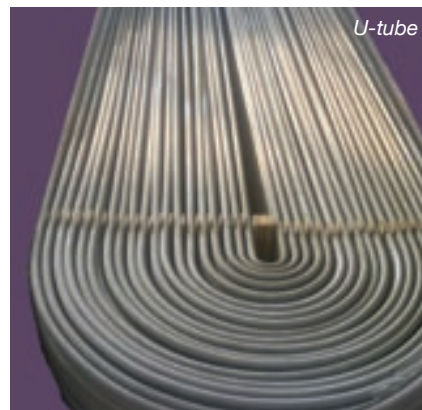
The company uses a wide range of stainless steel grades to produce pipe with outside diameters ranging from 6 to 830mm, with wall thicknesses from 0.5 to 28mm, and in lengths up to 100m. The products are manufactured strictly according to ASTM, ASME, DIN, JIS, EN and other standards.

The company can supply pipes for heat exchangers, alloy tube (ASTM B163-93, ASME SB165), Ti alloy tube (ASTM B337-99), duplex stainless steel tube (SA789, SA790, UNS S31803, UNS S32750), coiled tube and U-tube.

Hillhead's stainless steel seamless pipes and tubes are available in a complete range of sizes and materials. The products are used in the chemical and petrochemical processing industries, food mechanical industry, power stations, aviation, pharmaceutical and other industrial applications.

Hillhead exports its products to more than thirty countries, including Europe, USA, Korea, Australia, Malaysia and Brazil.

Hillhead – China
sales@hillheadpipe.com
www.hillheadpipe.com



U-tube



Coiled tube

Stainless steel tubes

6m plate pipe production for urgent requirements

H Butting GmbH & Co KG, Germany, is able to supply individual solutions to customers who require duplex pipes for urgent repairs, who have to cover shortages of thick-walled pipes at short notice, or who need pipes in special sizes as quickly as possible.

Since stainless steels were first developed, the production of high-quality longitudinally welded pipes has been the company's focal point. When longitudinally welded stainless steel pipes are required, even in small numbers or in special sizes or materials, Butting manufactures them from steel plate. The company has enlarged its stocks of the necessary pre-materials,

to ensure that they can satisfy individual pipe requirements with short delivery times at a high level of quality.

As well as the standard materials, 1.4541 and 1.4571, the company's store in Knesebeck also includes steel plates of TP 304L and TP 316L. To cover urgent requirements, the family-owned company can produce pipes with wall thicknesses from 6.35 to 12.7mm.

The company also specialises in storing steel plate in duplex or super duplex. Butting can manufacture, within a very

The company can supply thick-walled pipes at short notice



short time, duplex pipes (UNS 31803 or UNS 32205) in wall thicknesses from 4.78 to 22.7mm. Super duplex steel plates (UNS S32760) in wall thicknesses from 4.78 to 12.7mm are held in store for quick delivery in sizes specific to customers' projects. These newly stored steel plates mean that the store now comprises around 300t.

In this area of production Butting uses traditional TIG, plasma-TIG and submerged arc welding technologies, but is also one of the few manufacturers in Europe to use the effective electron beam welding technology.

To ensure the best possible surface condition, only top quality pre-materials are used, and the pipes are all supplied pickled and passivated.

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

Photo credit: copyright H Butting GmbH & Co KG



Butting manufactures longitudinally welded stainless steel pipes from steel plate

Bright annealed seamless stainless steel tubes

Technofin International Pvt Ltd is a manufacturer of bright annealed seamless stainless steel tubes. The technology employed is oil-draw cold finishing of quality pipes/hollows to re-draw, and annealing in reducing atmosphere for bright finish.

The company's bright annealing facility uses state-of-the-art induction heating technology. Tubes are manufactured in two type of ID surface finish grades: High Finish – Ra <math><20\mu\text{in}</math> (0.50 $\mu\text{m}</math>); and Industrial Finish – Ra <math><100\mu\text{in}</math> (2.50 $\mu\text{m}</math>).$$

The advantage of the oil-draw process is to provide smooth surface finish during

cold finishing, whereas bright annealing is used to avoid forming oxide layers on the tube surface during the heating process. Induction heating has the basic advantage of quick temperature rise facilitating the achievement of bright surface under reducing atmosphere. An additional advantage is removing (melting) surface cracks of the tubes during heating due to higher resistive path, helping the production of tubes without internal defects.

A further inherent advantage is the uniform heating of tubes in cross section, helping to improve mechanical properties and microstructure uniformity,

eg when bent, the tubes do not spring back, and IGC tests show good results.

Lengths available are: coil – 20-300m (65-100ft), straight – 2-6m (6-20ft). Outer diameters range from 1.58 to 25.4mm (1/16" to 1"), and wall thicknesses from 24 SWG/0.5mm to 14 SWG/2.11mm (0.02" to 0.083"). The company uses stainless steel 300 series dual grades, and manufactures to ASTM, ASME, DIN and JIS standards, or to specific requirements.

Technofin International Pvt Ltd – India
technofin@sify.com
info@technofin.in

Stainless steel tubes

Drawn over mandrel tubing specialist

PEASA was founded in Mexico in 1961 to produce carbon steel tubing, and later developed products such as flux tube, welded tube, fence tube, conduit tube, DOM tube (drawn over mandrel), aluminised and stainless steel tube.

Today, PEASA produces quality drawn over mandrel tubing, and offers customers cut to length services (from 24mm up to 500mm). The company is part of a wide organisation based in Mexico (GIM Grupo Industrial Mexicano), which integrates nine manufacturing, commercial and service companies mostly related to plastics and steel products.

The company's modern manufacturing facility is located in San Luis Potosi, Mexico, and offers state-of-the-art welding, forming and cutting technology. PEASA has invested millions of dollars in two laser welders that allow the company to reduce margins of error to a minimum.

Steel tubes are manufactured with cold or hot rolled steel in grades SAE-1006 up to 1020 Standards ASTM-A513 and DIN 2393. Tubes manufactured under the standards ASTM A-178 and A-214 are welded, under A-179, A-192 and A-210 are seamless, and under standards 213 in grade T-22 are carbon steel (seamless).

PEASA – Mexico
gsander@peasa.com.mx
www.peasa.com.mx

Shanghai Huaxia mills and trading company

Huaxia Group consists of four mills and one trading company. The mills are held by Shanghai Huaxia Industry Co, Ltd, as one of the largest manufacturers of stainless steel, titanium, duplex and super duplex, nickel and nickel alloy tube/pipe, sheet/plate, bar/wire and clad material in China.

Huaxia supplies 5,000MT of stainless steel tube, 3,000MT of titanium sheet/plate and 500MT of titanium tube/pipe per year for industries including aerospace, ship building, aviation, nuclear power stations, petroleum, chemical, medicine, and thermal and hydraulic power generation.

The trading company Shanghai Huaxia International Trading Co, Ltd not only deals with the import and export business for the group members, but also support clients for all requirements.

Huaxia produces stainless steel, titanium, duplex and super duplex, nickel and nickel alloy products according to ASTM/ASME, JIS, DIN, EN and GB specifications.

Shanghai Huaxia
– China
csm@nonferrous-metal.com
www.nonferrous-metal.com



Products from Shanghai Huaxia



JPE
SUS TUBE FITTING
www.yeanhern.com
www.jpe-tubefitting.com

Stainless steel tubes

Stainless and nickel alloy tubes

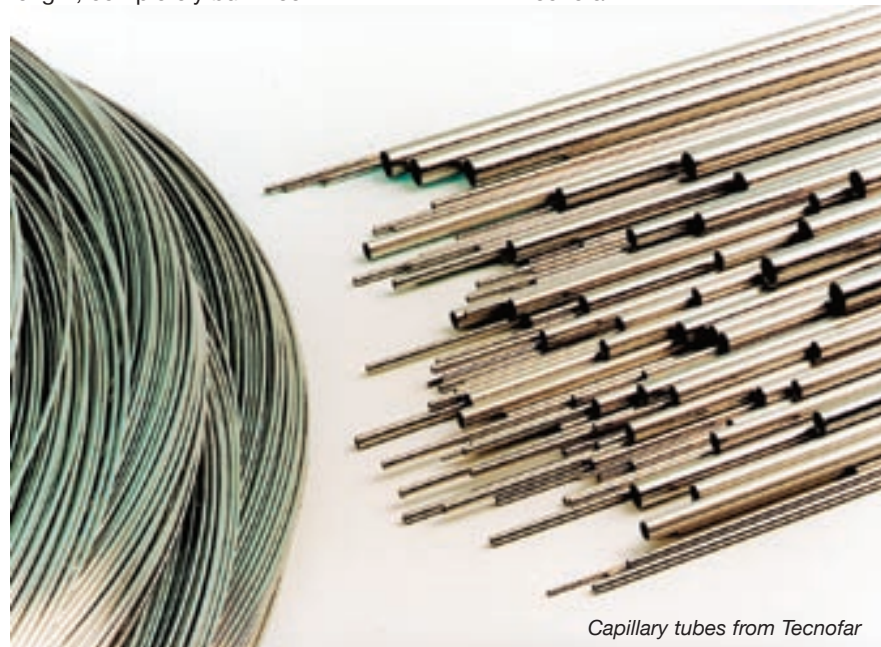
Tecnofar SpA is a family-run company specialising in manufacturing stainless and nickel alloy tubes. With advanced technology, the Italian company has two production units, located in Delebio and Gordona, covering a total surface area of 7,000m².

The company produces redrawn precision tubes, both in bar and coil form, using the TIG welding process, 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 tubes range of 0.3 to 76mm, and wall thicknesses ranging from 0.1 to 3.5mm. These tubes are produced using stainless steels provided and guaranteed by leading steel mills.

The company is ISO 9001:2000 accredited by Italcert.

Tecnofar SpA – Italy
info@tecnofar.it
www.tecnofar.it



Capillary tubes from Tecnofar

Tube manufacturer with in-house testing facilities

Bhandari Foils and Tubes Limited (BFTL) is the manufacturing division of Bhandari Group of Companies, India. The company manufactures stainless steel coils and foils, welded and seamless tubes and pipes, and recently added pipe fittings to its product range.

BFTL is a one-stop shop and manufacturer, with state-of-the-art facilities to manufacture tube and pipe fittings such as elbows, tees, reducers and stub ends, in carbon steel, alloy steel and stainless steels.

Established in 1995, BFTL caters to the requirements of both domestic and international clients. Its products find use in the transport, railway, paper and pulp, nuclear and heavy industries.

BFTL has in-house testing facilities to ensure timely delivery of quality products. The company is in the process of expansion, and a new facility will soon be ready for the supply of welded SS pipes, as per ASTM A 312, up to 16" NB.

Bhandari Foils & Tubes Ltd – India
sales@bhandarigroup.in
www.bhandarigroup.in

Seamless pipe and tube

Guangzhou Hongda Steel Tube Co, Ltd, established in 1988, is a seamless pipe and tube manufacturer with a modern workshop and advanced facility.



Guangzhou Hongda manufactures stainless steel and seamless carbon steel pipe

The company's main products are stainless steel pipe and seamless carbon steel pipe, in sizes from 6 to 426mm OD, 0.5 to 25mm WT.

The company has passed authentication of the ISO9001:2000 international quality management system; the ISO14001:1996 environmental management system; GB/T2800-2001 occupational health and safety management; PED97/23/EC & AD2000-WO/TRD100 manufacturer of material; and steel tube manufacturer for boiler and pressure vessel in China, which is issued by Quality Supervisory Quarantine Bureau of PR.

Annual capacity for stainless steel pipe is 10,000 tons per year, and for carbon

steel the company can reach 150,000 tons per year. To ensure quality, the company's facility is equipped with eddy current test, ultrasonic test and hydraulic test machines, and other testing equipment.

The company has been appointed as first class supplier by Sinopec and PetroChina, and has supplied to many large oil and chemical projects, such as Dayawan Nuclear Electrical Power Plant, and the Sinopec enlargement project.

Guangzhou Hongda Steel Tube Co, Ltd – China
hongda@hongda-steeltube.com
www.hongda-steeltube.com

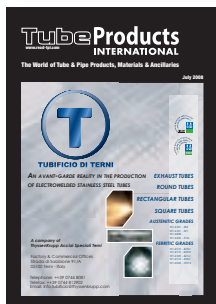
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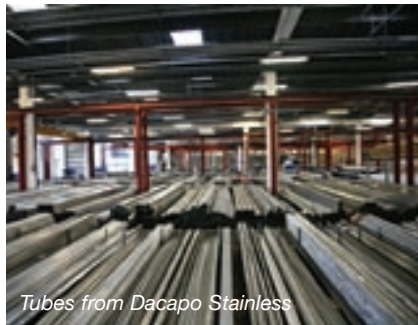
Stainless steel tubes

Stainless steel tubes and fittings

Dacapo Stainless is a supplier of stainless steel products in The Netherlands. The company's warehouses hold 5,000 metric tons in stock, consisting of stainless steel tubes, a wide range of fittings, flanges, valves, sheets, bars and profiles.

The company's team consists of stainless steel professionals who are dedicated to offering dependable and fast service.

Dacapo Stainless BV –
The Netherlands
contact-nl@dacapo.com
www.dacapo.com



Tubes from Dacapo Stainless

The company also supplies stainless steel fittings



High-performance check valves

WEH, Germany, produces a check valve for applications where gaseous and liquid media require leak-tight connections.

New manufacturing processes, materials and techniques put increasing demands on check valve properties, especially with regard to

pressure range, flow characteristics, temperature and leak-tightness. Further features are maintainability, corrosion resistance and customer-specific cracking pressures. The WEH check valves combine all these properties.

WEH offers check valves with thread connections, and also with ferrule fittings, flanges, hose nozzles, nipples or custom-designed press-in valves, even for small quantities. The check valves are silent in use, even under

Welded stainless steel tubes from Thailand

Toyo Millennium manufactures welded stainless steel tubes for food and beverage processing, heat exchange and general service purposes.

All Toyo Millennium tubing is subject to international industry specifications that meet ASTM, DIN, SWG and ISO standards, with material grades 304, 304L and 316L available.

The company has achieved certification such as 3A sanitary standard, PED and ISO 9001:2000.

Toyo Millennium Co, Ltd
– Thailand
oversea@toyomillennium.com
www.toyomillennium.com

high flow requirements, and offer minimum opening pressures from 0.01 bar onwards, and high leak tightness. The WEH check valves can be used for a large range of applications in mechanical engineering and construction, chemical/pharmaceutical and food industry, materials-handling and medical technology, and vary in construction and material.

WEH GmbH – Germany
webinfo@weh.com
www.weh.com

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Carbon Steel / Stainless Steel / Malleable Iron

Flanges

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Tel: +86-532-85061468 / 85064444
Website: www.plumbingchina.com
Fax: +86-532-85062336
E-mail: kfx@plumbingchina.com

Stainless steel tubes

Steel pipes for oil and gas industry

GE Steel Resource Ltd is a Chinese manufacture/exporter supplying various kinds of quality steel pipes for the oil and gas industry, as well as for other industrial projects.

The company is also an official authorised agent for leading Chinese steel groups including Chengdu Steel Co Ltd of Pang Group, Baotou Iron & Steel (Group) Co Ltd, Tianjing Steel Group (TPCO), and Baosteel Group. The company is therefore able to offer a full range of steel products, including hard-to-find materials and sizes with high quality.

GE's product range incorporates API5L line pipes (SMLS, LSAW, SSAW, ERW); API5CT casing and tubing (PE and threaded); API 5L/ASTMA106/A53Gr.B pipes (hot-rolled and cold drawn); stainless and alloy pipes (ASTM A335, A213, DIN17175-79); special shaped tubes (square, rectangular, arch, oval); flanges, valves, pipe fittings and fasteners.

GE Steel Resource Ltd – China
info@gesteel.com
www.gesteel.com

Steel products and material test reports

Felker Brothers Corporation, USA, established in 1903, is committed to pioneering and implementing modern manufacturing facilities, diversified product capabilities, and information technologies. The company provides an extensive product line of high quality, corrosion resistant stainless steel pipe, tube, and fittings. All products are ISO 9001 certified.

The company comprises two divisions, Felker Piping Products and Felker Fabrication, to serve the needs of a diversified customer base.

Felker Piping Products Division offers a full line of type 304/304L and 316/316L dual certified, welded stainless steel to the following standards: ASTM/ASME A-312/SA-312, ASTM A-778, ASTM/ASME A-269/SA-249, ASTM A-774, ASTM A-403, and a variety of miscellaneous pipe accessories.

Tubes for the energy market

Plymouth Tube Co is a global tube manufacturer for the energy market, offering austenitic, ferritic and superferritic stainless steels sized 0.5" to 2" OD, carbon and alloy boiler tubing sized 1.25" to 5.563" OD.

The company manufactures Sea-Cure® condensers, XtraLowStress® feedwater heaters, boilers and oil and gas tubing.

Headquartered in Chicago, with 11 manufacturing plants across the USA, Plymouth Tube Co is positioned for continued global growth supplying the aerospace, transportation, energy, and industrial markets.

Additionally, Plymouth Tube Co Chicago Processing offers coil slitting as well as a wide variety of speciality edging options.

Plymouth recently celebrated its 85th anniversary serving the steel tubing industry.

Plymouth Tube Company – USA
sales@plymouth.com
www.plymouth.com

Stainless steel finished goods

Ferimpex Steel Inc, USA, and Ferimpeks Di Ticaret, Turkey, supply stainless steel as finished goods, such as sheets, bars, round bars, squares, flat bars and hexagonal bars, pipes, profiles and fittings, to the international market.

The company has built long-term partnerships with the largest manufacturers in China and the Far East, in order to supply the international and domestic markets without compromising quality. Its product range includes steel products, angles, square bars, flat bars, t-bars, wire rods, steel billets, round bars, steel HR/CR coils and sheets, galvanised CR coils, steel tubes and profiles, galvanised tubes, aluminium profiles, quality steel, stainless steel products and aluminium extrusions.

Ferimpex Steel Inc – USA
Ferimpeks Di Ticaret – Turkey
sales@ferimpeks.com
www.ferimpeks.com

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Add: No 270, Yixian Rd.,
Shanghai 200434 china
Tel: 0086-21-65606108
Fax: 0086-21-65366725
Website: www.recomb.com.cn
E-mail: sales@recomb.com.cn

Stainless steel tubes

Seamless stainless steel tubes and pipes

The Centraavis production plant is one of the largest mills in Europe specialised in the production of seamless stainless steel tubes and pipes. Modern plant equipment and broad experience allow the company to provide an extensive product portfolio.

Centraavis seamless stainless steel solutions are used in a wide range of corrosive media and high temperatures in chemical and petrochemical industries, nuclear and thermal power engineering, non-ferrous metallurgy, machine and shipbuilding, food and

other industries, covering a wide variety of tube segments.

The company can deliver according to individual specifications and additional requirements. Parameters such as the use of special instruments, additional finishing after rolling, different methods of testing and tube examination, heat treatment, polishing, individual packaging and many other features can be adapted in the production plant.

Centraavis's portfolio covers various steel grades, austenitic, ferritic, austenitic

ferritic classes, duplex, super duplex, Ni-alloys tubes and a dimensional range from 4 to 245mm, with wall thickness of 0.2 to 35mm, and a maximum tube length of 26m.

Tube segments include: general tubes and pipes; boiler tubes and pipes; heat-exchanger tubes; instrumentation tubes; furnace tubes; hollow bars; and Ni-alloys tubes and pipes.

Centraavis – Ukraine
info@centraavis.com
www.centraavis.com

Taking tube and pipe material development capability to the next level

Sandvik Materials Technology's expertise in stainless steel and advanced materials offers a comprehensive seamless tube and pipe product programme.

The latest hyper-duplex stainless steel, Sandvik SAF 3207 HD®, optimises material strength and corrosion resistance, extending the properties of Sandvik's super-duplex grade, Sandvik SAF 2507®. The company says that use of the new grade makes it possible to develop installations and explore new oil and gas fields that were previously thought to be too expensive and technologically unattainable.

Developed for use in deeper more remote subsea umbilicals operating in aggressive environments, Sandvik SAF 3207 has a higher yield strength to withstand increased pressures, facilitating thinner wall umbilicals that reduce reel sizes and lower installation costs.

It extends the operating capabilities of hyper-duplex materials having an extremely high tensile strength of 980-1,180 MPa, and increases the operating temperature up to 90°C (194°F).

Another specifically developed hyper-duplex stainless steel is Sandvik SAF

2707 HD®, designed for service in highly corrosive conditions such as seawater cooled heat exchangers. It is particularly suited to aggressive, chloride-containing environments and displays excellent resistance to pitting. This makes it suitable for chemical, petrochemical and refinery industries, to meet higher demands on performance whilst maintaining the reliability and safety of equipment.

Manufacturing dedicated seamless tube and pipe for the power generation and nuclear industry, Sandvik is set to increase its production capability as a result of significant orders for steam generator tubes for the US and Chinese markets. Its development programme also includes special tubes for high efficiency, new generation power plants that operate at increased temperatures.

Sandvik constantly adapts to changing market conditions and the requirements of its customers by adding specialised and higher performance products to its range of steels. These include materials that extend seamless tube life in highly corrosive environments such as urea, ethylene and petrochemical plants, in addition to hydraulic and instrumentation tubing in Sandvik SAF 2304® that withstand nearly twice the pressure of standard material tubes.

Sandvik Materials Technology – Sweden
www.smt.sandvik.com/tube

Stainless steel tube supply from Sandvik



Stainless steel tubes

Stainless steel non return valves

The principle of the non return valve with integrated soft sealing in the valve cone has already proved itself in the market, forming the basis for a successful application in many different procedures and areas of industry. Non return valves from Schwer Fittings, Germany, manufactured out of stainless steel 1.4571, ensure maximum precision and functional character.

The company's range includes non return valves with girth ring connection (German Institute for Standardization 2353 / EN ISO 8434-1) for tube dimensions of light series 6L to 42L and for series 6S to 38S. Schwer also offers non return valves with external thread connection (German Institute for Standardization of ISO 228) in the sizes G 1/8" to G 1½", and a wide range

of valve feathers for different opening pressures.

Non return valves with one-piece valve housing and internal thread connection (German Institute for Standardization of ISO 228) by the thread sizes G 1/8" to G 2" and the proved close system with soft sealing are standard. Depending on the connection variant and sealing material, the valves are suitable for many fluids or gaseous media, as well as with raised temperatures. The valves are also available in special materials, on request.

Schwer Fittings also produces Eco-Tube couplings – cavity-free connectors for use when a high standard of finish on all coupling surfaces is required.

Eco-Tube couplings consist of four parts: inlet, threaded body, sealing ring and nut. The inlet and threaded body are secured together by the nut. During the process of joining the inlet and threaded body together, the two parts

are centred due to a specially designed geometry.

Smaller dimension nuts are manufactured in hexagonal form as standard, while larger sizes are usually octagonal. The threaded body is fabricated with two flat sides, to facilitate precise installation. Weld-ends are supplied according to customer specification, eg orbital welding or autogenous welding. The centring and ingress of the inlet and the threaded body are such that radial disassembly is simple.

The seal is ensured by an O-ring, which can be a standard sealing or an FEP Jacket sealing (O-ring with PTFE jacket). The jacket ensures that no contact exists between the elastomer and the medium. Eco-Tube couplings are suitable for paint-line applications.

Schwer Fittings GmbH – Germany
marketing@schwer.com
www.schwer.com

High quality pipes from Italy

TIS, Italy, produces stainless steel pipes for use in sectors that demand pipes of high mechanical and aesthetic quality. All work is performed using high-tech, cutting-edge systems with the support of environment-friendly equipment, and monitored by trained personnel committed to quality.

TIS is able to certify end product quality because only select raw materials are used. The company produces its pipes starting from top-quality, certified cold and hot laminate sheet from European steelworks. The tight tolerance limits and strict adherence to measurement parameters mean that TIS products are of high technical quality, are highly reliable and provide excellent mechanical performance.

Tungsten inert gas (TIG) welding and the application of exclusive production systems eliminate virtually any alteration in the raw materials and ensure external and internal pipe cleanliness. TIS continues to expand its production and sales capabilities, multiplying its research efforts into technological solutions.

TIS Srl – Italy
Tel: +39 0341 201724

Low residual stress U-Bend tubing for SCC environments

RathGibson, a manufacturer of welded, welded and drawn, and seamless stainless steel, nickel, and titanium tubing, now has the capability to control the residual stress levels in U-Bend tubing for stress corrosion cracking (SCC) alloys used in SCC environments.

For its customers operating in SCC critical settings, RathGibson realises the necessity for reducing the stress to the lowest possible levels. RathGibson produces U-Bend tubing with the residual stress controlled to 5,000 psi or less for SCC susceptible alloys. The effectiveness is verified by actual SCC testing. The tubing is fabricated at RathGibson's integrated in-line U-Bend Manufacturing Center, located at its Janesville, Wisconsin facility.

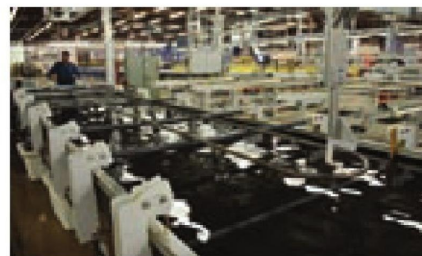
"The opening of in-line U-Bend Manufacturing was just the beginning," said Dave O'Donnell, director – process and product development. "As a company, we believe that meeting the diverse needs of our customers is essential. This controlled residual stress tubing is just our next step in our commitment to advancing the quality of U-Bend tubing."

Low residual stress U-Bend tubing from RathGibson is valuable in the chemical and power generation industries, including both fossil fuel and solar applications. With a direct-to-bend manufacturing approach, RathGibson offers fast delivery with increased efficiencies and minimal in-process material handling.

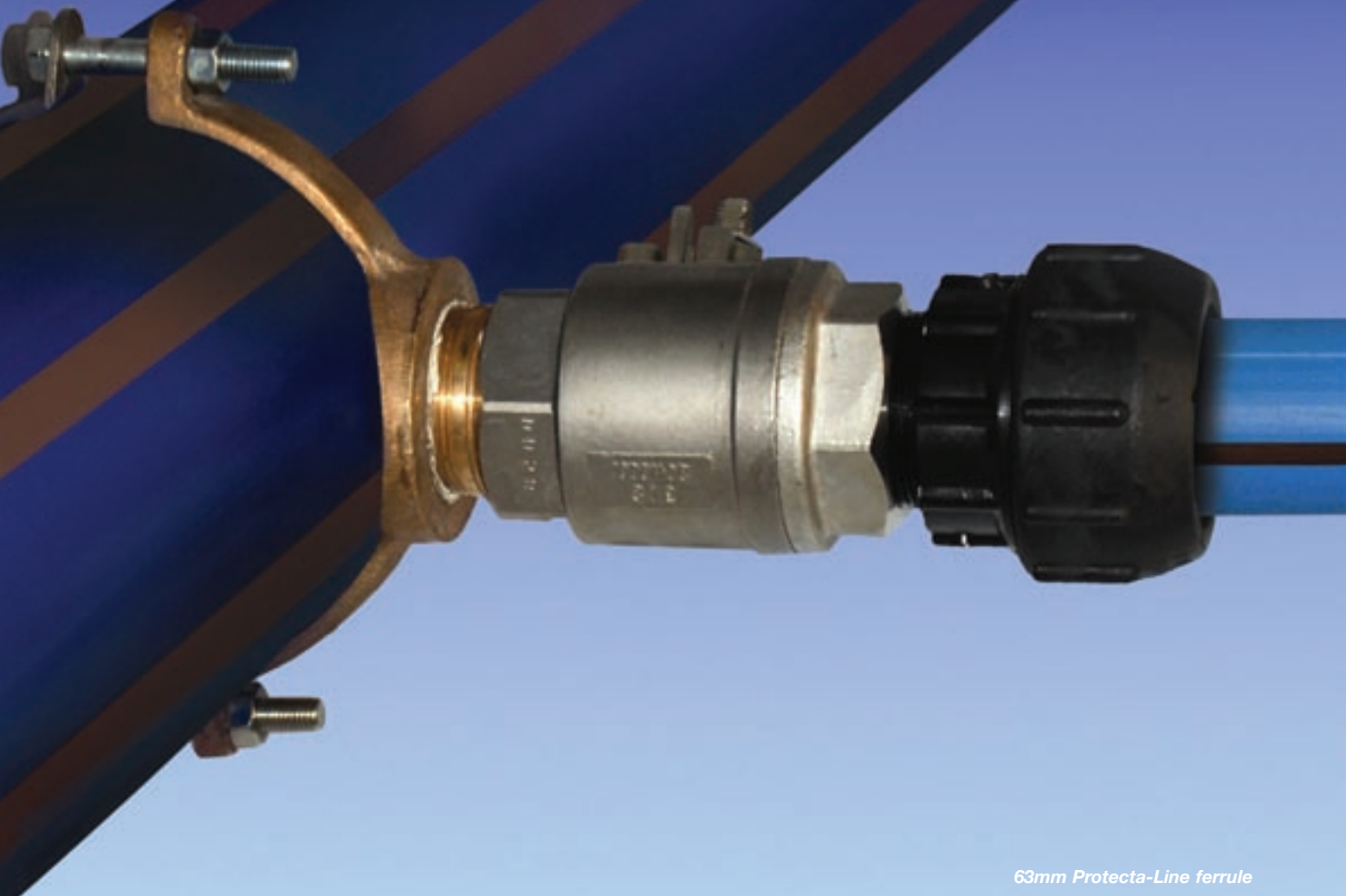
Using stainless steel, duplex stainless steel, super austenitic, and super ferritic/ferritic, U-Bend tubing is offered across a wide range of tube ODs and wall thicknesses. All tubing complies with ASTM/ASME A688/SA688 and/or A803/SA803 specifications, as applicable.

RathGibson – USA
www.rathgibson.com

RathGibson offers low residual stress U-Bend tubing for SCC environments



Fittings



63mm Protecta-Line ferrule

Protecta-Line range grows with new ferrule

GPS PE Pipe Systems' Protecta-Line barrier pipe system has been extended with a unique saddle ferrule.

Independently tested to WIS 4-32-19, the saddle ferrule enables a live off-take of 63mm Protecta-Line pipe and has been specifically designed to provide ease of installation.

The ferrule complements the system, which safely transports drinking water through contaminated land.

The valve can be installed onto Protecta-Line mains in sizes from 90mm to 355mm. The outlet uses 63mm

Protecta-Line Mechanical Compression End Connectors to ensure complete safety.

The ferrule off-take was designed to provide both specifiers and users with a no-compromise off-take to a 63mm Protecta-Line pipe. It holds excellent headloss and flow characteristics and provides total security against contaminant ingress.

Each ferrule incorporates an insert sleeve that grips into the hole drilled in the pipe wall, securely sealing against the inside of the saddle body. This ensures there is no contact between the

pipe's aluminium barrier layer and the drinking water supply.

GPS PE Pipe Systems introduced the Protecta-Line barrier system to the UK market more than 10 years ago.

A fully integrated system of pipes and fittings, Protecta-Line protects against chemicals in the land and against future environmental incidents. The Protecta-Line is also lightweight, flexible and user-friendly, and is available in a range of measurements.

GPS PE Pipe Systems – UK
www.gpsuk.com

Customisable double block and bleed valves

Founded in 1998 as a master distributor of Hy-Lok Corporation, Hy-Lok USA offers fluid system components for the oil and gas industry, including tube fittings, flare fittings, pipe fittings, double block and bleed valves, and needle and check valves.

The company has expanded its instrument valve product line with double block and bleed valves that can be designed and engineered to order. Double block and bleed valves, also known as DBB isolation valves, provide an alternative to multi-valve systems by combining typical block and bleed components into a compact, space-saving unit.

Hy-Lok double block and bleed valves are integrally forged, one-piece assemblies used for the primary isolation of pressure take-off and process flow. Double block and bleed valves reduce the need for costly multi-valve systems, minimise potential leak paths, and provide weight savings.

"With the space-saving requirements of off-shore oil and gas extraction, it was important to offer a compact valve that is highly versatile," said Jody Barnes, CEO of Hy-Lok USA. "Our DBB valves are flexible in design, and can be engineered to meet custom lengths, heights, and connection sizes."

The DBB valves' compact design is suitable for instrument isolation chemical injection, gauge isolation, oil and gas production, and direct or remote mounting of instruments. Users have the option of choosing from a large inventory of ready-to-ship DBB valves or custom designing a solution that is optimised for their particular system.

Additional double block and bleed valve benefits include uninterrupted flow for negligible pressure drop, low maintenance requirements, and a smaller profile for reduced risk of vibration damage. Optional DBB features include probes, check valves, seat wipers and injection quills.

Hy-Lok USA
www.hylokusa.com

Flanges and fittings in carbon and stainless steel

Euroflansch manufactures flanges and fittings for wholesalers and large consumers. Products include small and large flanges, fittings and elbows made of carbon steel or stainless steel.

The company is approved as a material manufacturer according to AD 2000-W0, and has established a certified quality management system in accordance with the Directive 97/23/EC for Pressure Equipment, as well

as being certified according to DIN EN ISO 9001:2000. With the approval CRN 0B12002.5ADD1, the company supplies flanges according to B16.5 in all Canadian provinces. By the receipt of the Lloyd's Certification, Euroflansch is able to supply all authorised flanges for shipbuilding.

Euroflansch GmbH – Germany
info@euroflansch.com
www.euroflansch.com

Steel, stainless and alloy steel fittings

Delcorte sas is composed of five production plants, producing steel, stainless and alloy steel fittings for water, gas, chemical, petrochemical and nuclear applications.

The company is approved by major oil and gas companies (BP, Exxon Mobil, Qatar Petroleum, Saudi Aramco, Shell and Total), making the group a reliable partner for EPC companies such as Bechtel, Chyoda, Fluor Daniel, Foster Wheeler, Hyundai, JGC, Saipem, Technip and stockists. 85% of the company's production is exported, to more than 60 countries.

Product ranges include carbon, stainless and alloy steel high pressure fittings as per ASME B16.11; reinforced branch outlets (BW, SW, THD, NIP and ELB) as per MSS SP 97; steel threaded couplings for water and gas from 1/8" to 6" (ISO, BS, DIN, ASTM and UL6); conduit couplings; wrought threaded steel fittings as per BS1740-EN10241; tailor-made fittings for special applications; API line pipe couplings as per API 5L; and API casing and tubing couplings up to 20" as per API 5CT.

Delcorte sas – France
info@delcorte.com
www.delcorte.com



Close-coupled manifold system simplifies process level measurement applications

A new, highly integrated manifold concept offers users a simpler means of installing level measurement instrumentation to process tanks and vessels. Two single-piece manifolds integrate all of the valves and features required for connecting the upper and lower pressure sensing points to a differential pressure transmitter.

The approach eliminates weight, size and potential leak paths compared with conventional 'hook-ups' fabricated using discrete valves and tubing connections. The solution has been developed by the instrumentation products division of Parker Hannifin.

Called CCIMS Level-Flange, the new solution consists of two manifolds. One provides a single-piece solution for the lower or 'wet leg' pressure connection at the bottom of a tank. This has a flange at one side for connection to the tank, double-block-and-bleed valves in a monoflange style, a mounting point for a differential process transmitter, and tube connections for the balance line connection to the second sensing point. The second manifold provides an integrated solution for the upper or 'dry leg' pressure sensing point, with a flange connection, block-and-bleed valves and balance line connections.

The intimate nature of the piping connection provided by CCIMS Level-Flange aids the fundamental performance of the instrument system. Traditional hook-ups typically involve

longer flow paths, bends and sometimes changes in bore size. These can introduce pressure drops that can decrease measurement accuracy, commonly referred to as 'gauge-line error'. CCIMS Level-Flange provides a short, straight and even flow connection, allowing end-users to benefit fully from the instrument's accuracy to monitor process levels.

The close-coupled design ensures that the differential pressure instrument is mounted directly adjacent to the process vessel, helping to avoid the common problem of blockages that can be caused by factors such as viscous media, hydrate formation and freezing.

The weight and size of the integrated manifolds is also reduced compared with other solutions. A complete assembly with instrument only extends around 26.3cm (10.4") from the tank, which can be as little as half that of some other hook-ups. This eliminates any need for supporting metalwork, and reduces the likelihood of clashing with any nearby pipework.

The integrated nature of the manifolds also means that numerous joints are eliminated, each of which is a potential leak path, helping to avoid both human and environmental safety issues caused by leakages or emissions.

Installation time is a further advantage of Parker's new solution. By replacing hand-crafted assemblies of discrete tubing, joint and valve components



Parker Hannifin's new manifold provides a simpler means of installing level measurement instrumentation to process tanks and vessels

that can take many hours to assemble, CCIMS Level-Flange is expected to reduce the installation time and cost of differential pressure transmitter level measurement systems.

Parker Hannifin – UK
ipd@parker.com

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Truly Tubular offers Braz-Tyte, a line of stainless steel 'sweat' fittings for fluid-line applications, and Hoz-Tyte, for low pressure applications where a rigid metal connection to non-metallic flexible hose is required.

Braz-Tyte fittings are wrought from thin-wall Type 316L stainless steel tubing, providing a product that is light in weight with a smooth interior for increased capacity and flow. They offer an alternative to heavy machined fittings

and can be joined by soldering, brazing or welding.

Hoz-Tyte fittings are also fabricated from thin-wall Type 316L stainless steel tubing, and utilise a hose configuration in accordance with specification AS5131/SAE J1231 Type II. Both products provide corrosion resistance with minimum bulk and weight, as well as high strength, in ¼" to 1½" tube OD sizes. The standard bend radii for all elbows is 1½ times the tube outside diameter. Standard fittings

are generally available from factory stock in reasonable quantities.

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DIN: DIN2605, DIN2615, DIN2616, DIN2617,
DIN28011

SGP: JISB2313

EN: EN10253-1, EN10253-2

MATERIAL:

ASME: A234 WPB, A234 WP1, A234 WP5,
A234 WP9, A234 WP11, A420, WPHY42,
WPHY52, WPHY60, WP304, WP304L, WP304H,
WP316, WP316L, WP321, WP347, WP347H, ETC.

DIH: ST37.0, ST35.8, ST45.8, S235JR,
P235GH, P265GH, 10CRMO910, 15CRMO, 12CR1MOV

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GPS ploughs speed and reliability into pipe fittings upgrade

Installers and end users will benefit from the latest manufacturing improvement in GPS PE Pipe Systems' electrofusion fittings range.

The 'ploughed wire' production technique, applied to GPS's small diameter, black PE100 couplers and 90° elbows from March 2010, leads to a strong and secure electrofusion joint when installed correctly. With an accelerated fusion time, the new fittings are also quicker to use than was previously possible.



GPS's small diameter, black PE100 fittings are now manufactured using the ploughed wire production method

Spanning the size range 25 to 63mm, the new production method cuts a claimed average of 19% off the fusion time for the couplers and elbows. This is due to the precise positioning of the electrofusion coil, which allows optimal heat transfer to the pipe surface. Wire ploughing dispenses with a conventional pre-form core and positions the wire with a high degree of precision. This results in consistent dimensional accuracy and construction from one moulded fitting to the next.

All the fittings are manufactured to close tolerances with minimum ovality. The ploughed wire manufacturing method adds to GPS's comprehensive product range and specialist knowledge in PE pipe systems for water, gas and general industries.

GPS PE Pipe Systems – UK
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The TUV accredited company has complete manufacture management and quality control. A catalogue is available, on request.

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Pipelines – connecting worlds



Demand for pipelines rising worldwide

The demand for oil and gas is rising worldwide, as is the demand for pipeline pipe materials. Studies carried out by the Organisation of Oil Exporting Countries OPEC and the US Energy Information Administration before the current economic crisis forecast oil and gas consumption to go up by 16% and 29%, respectively, by 2015.

Last year the London-based steel business consultancy CRU foresaw double-digit growth rates for global pipe demand, assuming that 60% of the demand would be accounted for by large-diameter pipes measuring over 20" in diameter. Accordingly, the demand for line pipes was said to go up by 78% in Eastern Europe and by over 100% in the Middle East and Asia between 2007 and 2011. Altogether, CRU forecast an increase for line pipes from 14.9 million tons in 2007 to 24.2 million tons in 2011. In October 2008, Steel Tube News announced that demand for oil and gas pipelines would go up to 27,000km in 2007 and to 32,000 from 2009, and that demand for welded pipes would rise from 13 million tons to 15 million tons over the same period. Worldwide, almost 230,000km of pipeline were under construction or planned in autumn 2008.

The high demand for oil and gas line pipes for the energy sector was mainly responsible for bringing global steel pipe production in 2008 up to the previous year's record level of approximately 120 million tons. In the segment of large pipes (welded pipes over 406.4mm diameter) production was estimated to grow by 1% to 18 million tons. Future opportunities for business growth in the segment of longitudinally welded large-diameter pipes are therefore foreseen especially in regions with fast growing energy needs and those with the relevant raw materials because of the high demand for high-quality pipes in demanding dimensions.

Due to the problematic situation on financial markets, an increasing number of projects in the line pipe sector were postponed in the first quarter of 2009, while in exploration there was no major incentive to develop new oil and gas fields because of the low oil prices.

Nevertheless, the situation was largely stable for large-diameter pipes, predominantly thanks to long-term projects in the energy sector that had already been initiated in 2007 and 2008. Of course, signs of a slow in demand could be seen here, too. Large pipe manufacturers posted a lower order intake than in the same period of the previous year.

Furthermore, competition, especially in the segment of longitudinally welded pipes, became keener.

Due to some still very well filled order books, the large pipe segment should be in relatively good shape for 2009. But delays in contract awarding must be expected because of noticeably lower oil and gas prices, as well as possible financial bottlenecks. This statement equally applies to the segment of seamless pipes and welded steel pipes made of hot wide strip (carbon and stainless steel) provided they are used in the oil and gas sectors or in power plant construction.

As a result of the anticipated continued rise in global energy needs, steel pipes for the energy sector can also be expected to meet with stable demand in 2010 – although this segment will most probably also be affected by the downward price spiral of the market as a whole. It is currently very hard to say how funding will develop for projects whose realisation is not a strategic necessity.

Growing demand for high-strength large-diameter pipes

Pipe manufacturers are faced with ever more demanding requirements regarding their upstream supplies: customers predominantly ask for higher strengths in order to be able to transport higher gas or oil quantities under higher pressure. While some years ago an operating pressure of 80 bar was the rule for gas pipelines, pipelines are now operated with pressures as high as 100 bar. This is why installers, who are compelled to operate their pipelines under ever harsher conditions and higher pressures, increasingly ask for large-diameter pipes in high-strength and super high-strength steel grades such as X80 and X100.

In the large-diameter pipe segment there is a clear trend towards not only ever higher quality steel grades with high resistance to low temperatures but also towards higher wall thicknesses. According to experts in the oil and gas sector, pipe walls will have to consist of steel plates of 30 to 50mm thickness, considering that pipelines are operated under ever higher pressures and in more demanding environments. A case in point being the spectacular Baltic Sea Pipeline, for which pipes with 34.6mm wall thickness are already being manufactured.

For operating lines consisting of large pipes where wall thicknesses of up to 21mm are sufficient, customers especially in the oil and gas sectors take increasing interest in spiral-weld pipes. Europipe, a world market leader for line pipes located in Mobile, Alabama, at the Gulf Coast in southern USA, has therefore recently put its second US pipe plant into operation. The new spiral-weld pipe plant in Mobile was already awarded

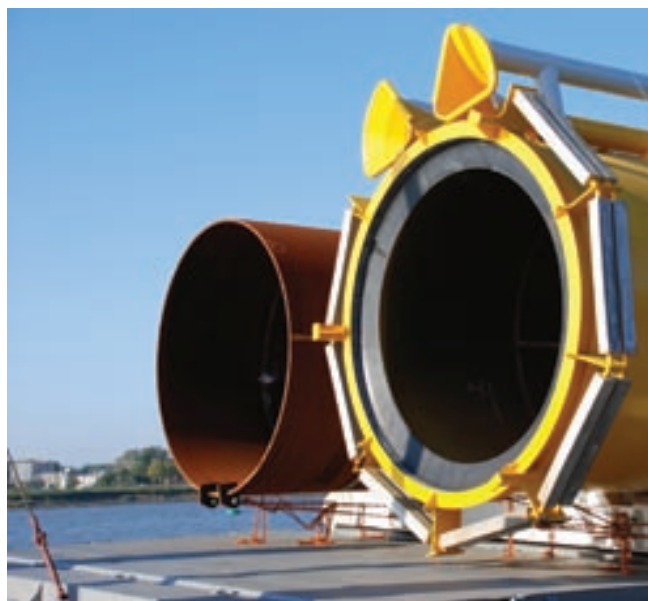
a major order for a gas pipeline (Ruby Pipeline) running between the US states of Wyoming and Oregon. The new plant is expected to work to almost full capacity by 2010 manufacturing the 158,000 tons of 42" pipes (with a 13.7mm diameter) from X70 steel. The spiral-welded pipes produced in Mobile are predestined for most onshore pipelines in the USA with their lower wall thicknesses. The plant is designed for an annual output of 200,000 tons, and supplies pipes in the range from 24" to 56" external diameter, with wall thicknesses between 6 and 25.4mm.

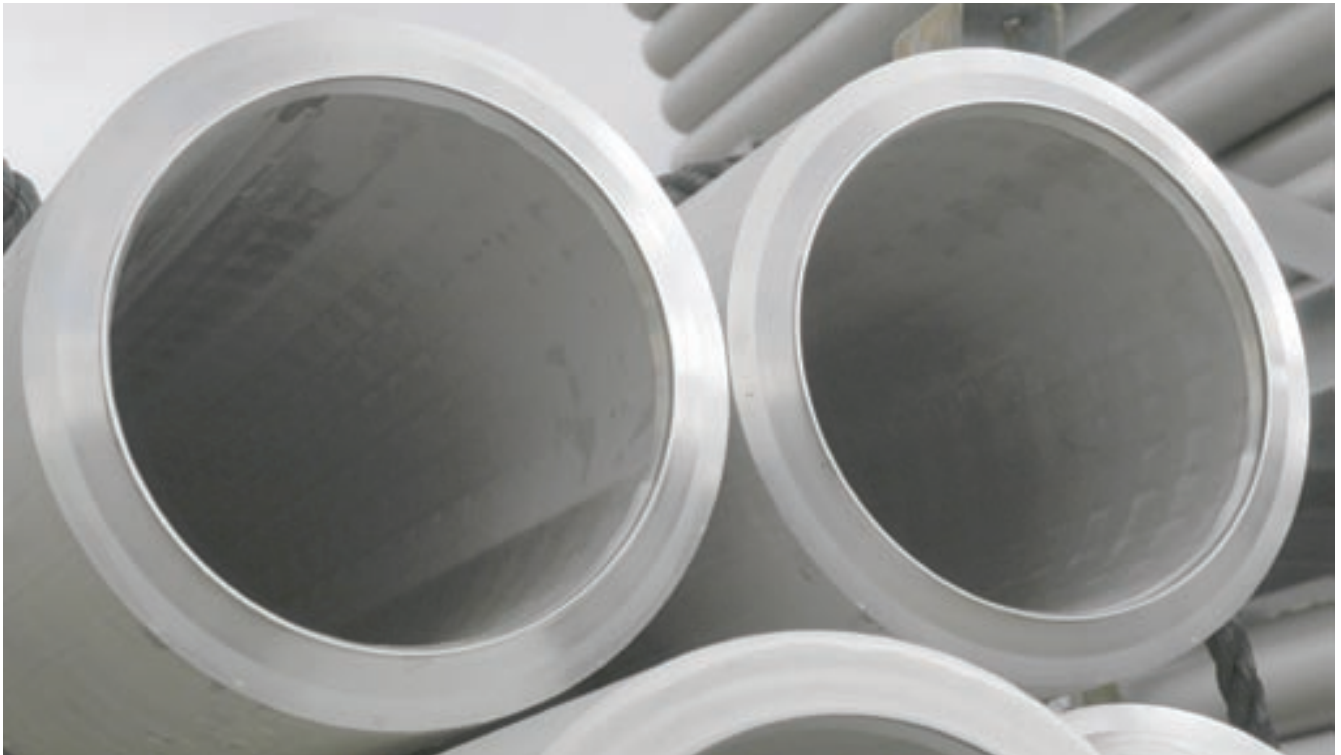
New pipe plants increase capacities

This pipe plant is just one of many new manufacturing sites erected or commissioned throughout the world over the past few years. Since late 2008, Jiangbei Steel Processing and Logistics Co Ltd, which is part of the Chinese steel group WISCO, has been operating a new continuous 26" high-frequency pipe welding plant in Wuhan on the Yangtze river. Up to 350,000 tons of pipe can be produced here annually by the line supplied by the German plant engineer SMS Meer.

The pipes to be processed measure between 244 and 660mm in diameter, have wall thicknesses up to 24mm, and are up to 18.5m long. The new plant will manufacture pipes for the oil and gas industries as well as for the construction sector. For pipelines, the pipes are manufactured according to the API standard in steel grades up to X80. The casing pipes for oil drilling are also produced in compliance with API standard, ie in steel grades up to N80.

The high demand for large pipe welding equipment continued unabated in 2008, as was also reflected by another order awarded to the SMS group. Following the Wuhan Iron & Steel Corporation (WISCO), the Chinese





Tianjin Pipe Corporation (TPCO) placed another order for a RD660 HF pipe welding plant – the world’s largest continuous pipe welding plant by its manufacturer’s account. This plant serves to produce high-strength oil field and line pipes complying with API standards, as well as pipes for the construction sector with round, rectangular and square cross-sections in line with DIN 10219. Round pipe dimensions here range from 244.5 to 660.4mm diameter, with wall thicknesses between 4 and 22.2mm. TPCO also awarded SMS with an order for a RD355 HF pipe welding line that was commissioned in late 2009. The two lines running at TPCO’s site will have a joint annual output of 450,000 tons.

JSC Chelyabinsk (ChTPZ Group) in Russia has built a new large pipe plant with an annual capacity of 600,000 tons for manufacturing longitudinally welded steel pipes with diameters of 508 to 1,422mm, wall thicknesses of up to 45mm, lengths of up to 18.3m and steel grades of maximum K80. It is scheduled for commissioning in 2009 at the Chelyabinsk site in South Ural and will be among the most modern of its kind in the world. The pipes produced in Chelyabinsk will be joined to form pipelines for oil and gas.

The pipe plant features two pipe forming presses: one 18.3m press and one 12.2m press. The 18.3m long pipes offer a benefit in terms of lower pipe laying costs because there are fewer welding seams required to join the pipes compared to shorter pipes. By way of contrast, the shorter pipes can also be produced with extremely high wall thicknesses, despite their small diameters, and are therefore especially well suited for offshore pipelines, where they have to resist higher pressure.

Summer 2009 saw Zhongyou BSS Petropipe Co Ltd commission a large pipe plant supplied by SMS to Qinhuangdao, about 300km east of Beijing, China. The new plant, with an annual capacity of up to 150,000 tons, is thought to be the most modern of its kind in China. It will be used to make longitudinally welded steel pipes of 508 to 1,422mm diameter, with wall thicknesses up to 40mm, lengths of up to 12.2m, and grades up to X100. One of the decisive factors for placing the order with SMS were the benefits offered by the JCO® pipe forming press as the principal plant component.

By the firm’s own accounts, the JCO process developed by SMS Meer has become the global standard because it offers more flexibility, plus high quality and lower investment costs than other processes. Over the past few years it has been introduced at many large diameter pipe plants and is considered the most suitable process for producing even small pipe diameters with high wall thicknesses. This means that the market segment offshore pipelines can also now be served.

The commissioned line is suited to the production of pipes complying with all major international standards, such as API, ISO and DNV. Such pipes are used for lines that transport oil and gas from Chinese oil rigs in the north to cities in the east and south of the country.

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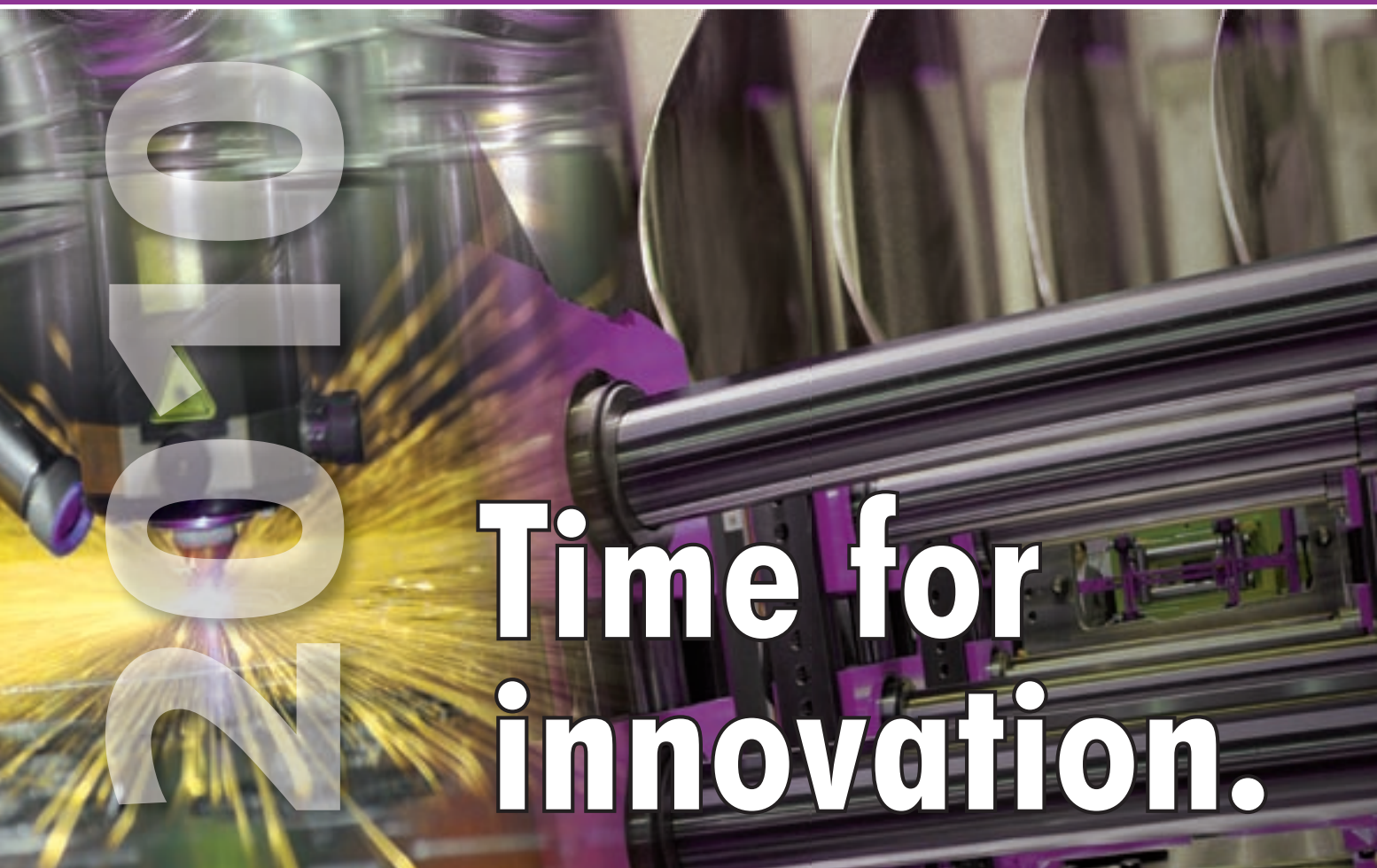
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