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INTERNATIONAL



The trade magazine for tube and pipe products

March 2016



ArcelorMittal

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stability and
customer focus

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read more on page 31

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Your reliable partner for European pipes and tubes

Since its establishment in 2007, ArcelorMittal Tubular Europe has evolved into one of the top tube producers in Europe. Through its focus on continuous improvement and investment, the business is set to grow further as it masters the challenges ahead.

ArcelorMittal Tubular Europe produces a wide range of tubes and pipes at nine production sites across four European countries. It produces seamless and welded pipes and tubes including electric resistance welded (ERW), high frequency induction (HFI), precision, cold-drawn, and both spiral and longitudinal submerged arc welded (HSAW and LSAW).

In 2015, ArcelorMittal Tubular Europe delivered pipes and tubes to sectors including energy, construction, engineering and automotive. An increasing share of its output is value-added products, which it has developed in cooperation with its customers.

As a company it distinguishes itself from its competition because it always puts the customer first. "We appreciate our long-standing customer relationships," explained Jeyachandran Rajasekaran, CEO of ArcelorMittal Tubular Europe. "These relationships endure because of our focus on continuous improvement and our extensive range of products which serve every market segment. Our steady growth, even in extremely difficult market conditions, gives us confidence that we can master very challenging orders and customer demands in the future."

Wide range of seamless pipes

ArcelorMittal Tubular Europe offers seamless pipes with an outside diameter ranging between 21.3 and 508mm and wall thicknesses up to 50mm. Access to high-quality steels allows it to create pipe and tube solutions for the most challenging applications. Its mills in Romania and the Czech Republic have supplied many complex orders including structural tubes for the Azerbaijan Olympic Stadium, piping systems for the UK Navy's flagship aircraft carriers and oil and gas projects across the world.

Flexible large diameter welded facilities

Its highly flexible operations enable it to meet the demands of both large and small projects. It has the capability to produce individual pipes, making it the ideal supplier for small projects with many components.

Recent investments have enabled it to extend the outside diameter of its HSAW products up to 1,016mm. A wide range of grades are available in strengths up to X70. It offers additional services including end preparation for sockets, cut-to-length pipes and an in-house coating facility.

Extensive small welded offer

Small, welded cold-formed and hot-finished tubes are produced at its mills in Karviná (Czech Republic), Krakow (Poland) and Iasi (Romania). These products are typically used in construction, and in the transportation of fluids and gases. Its offer is constantly developing to meet customer requirements for high value-added products.

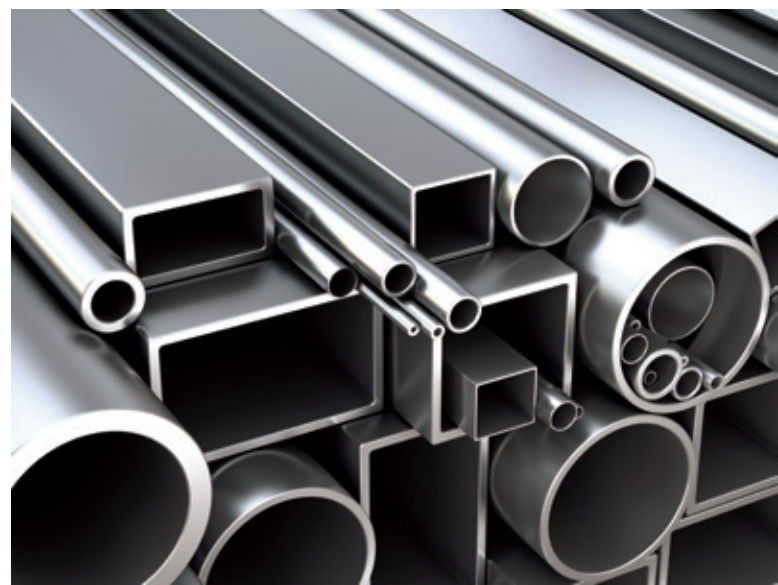
Over the past two years, ArcelorMittal Tubular Europe has made important investments to increase its production of galvanised and colour-coated tubes, and hot-finished hollow-sections. These investments have enabled it to increase the variety of grades on offer and improve its logistics systems.

Leading automotive partner

ArcelorMittal Tubular Europe has rapidly increased its presence in the European automotive sector. Four of its production sites (Hautmont, Chevillon, and Vitry in France and Karviná in the Czech Republic) supply tailor-made solutions to its automotive customers. These include welded and cold-drawn welded tubes as well as components based on global quality standards such as ISO TS 9001 and ISO TS 16949.

Its pipes and tubes are utilised in a range of automotive applications including the chassis, body-in-white, crash components, seating, IP beams and fluid handling. With its highly skilled team of engineers, ArcelorMittal Tubular Europe is able to offer innovative designs and act as a development partner. This provides genuine added-value to customers and leads to significant cost and weight savings in their vehicles.

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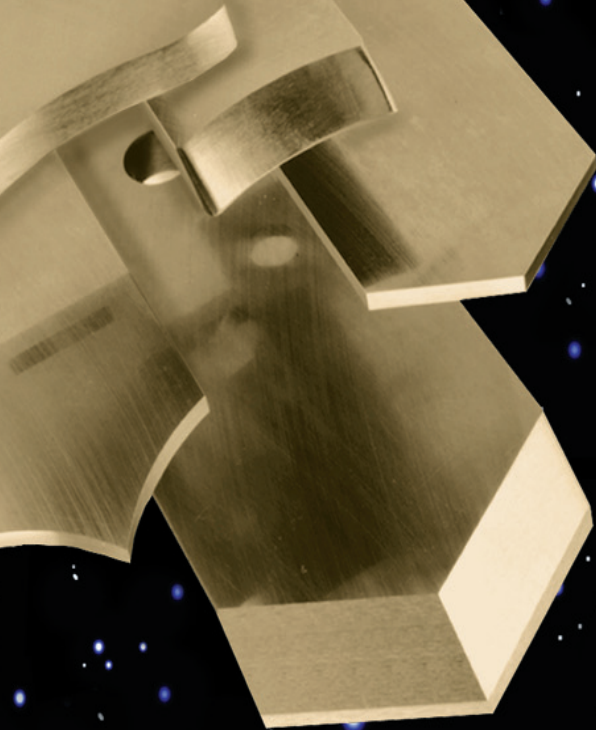
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Editorial Office:

Editor	Mr Rory McBride Email: rory@intras.co.uk
Editorial Assistant	Mr Christian Bradley Email: christian@intras.co.uk
Design & Production	Mrs Lisa Wright Email: lisa@intras.co.uk
Publisher	Mrs Caroline Sullens
Founder	Mr John C Hogg

Advertisement Material & Production:

Ms Liz Hughes	Email: liz@intras.co.uk
Ms Andrea McIntosh	Email: andrea@intras.co.uk

International Advertising Sales:

Ms Tracey Callaghan
Email: tracey@intras.co.uk • Tel: +44 1926 834688

Verkauf & Marketing (Deutschland, Österreich, Schweiz)
Email: germansales@intras.co.uk • Tel: +44 1926 834687

Ms Giuliana Benedetto – Vendite & Marketing (Italia)
Email: giuliana@intras.co.uk • Tel: +44 1926 834686

Ms Linda Li – 中国大陆, 台湾, 香港以及远东地区销售代表
Email: linda@intras.co.uk • Tel: +44 1926 834685

Subscriptions: www.read-tpi.com

Accounts Manager and Subscriptions Mrs Julie Case
Email: juliecase@intras.co.uk

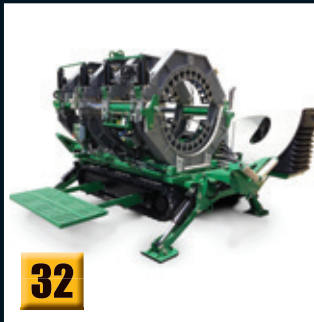
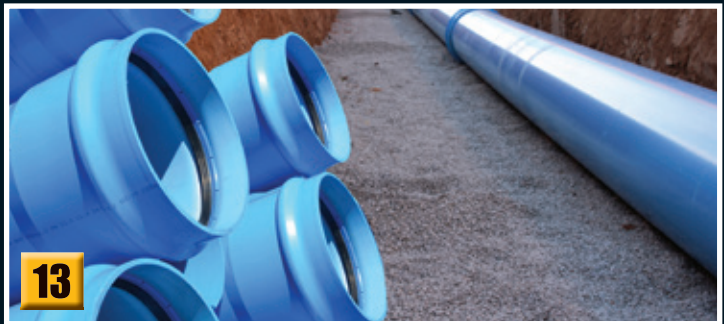
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Europe: 46 Holly Walk, Leamington Spa
Warwickshire CV32 4HY, UK
Tel: +44 1926 334137
Fax: +44 1926 314755
Email: tpi@intras.co.uk
Website: www.intras.co.uk

USA: Intras USA
Danbury Corporate Center
107 Mill Plain Road
Danbury, CT 06811, USA
Tel: +1 203 794 0444
Email: doug@intras.co.uk

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46 Holly Walk, Leamington Spa, Warwickshire CV32 4HY, UK

Tel: +44 1926 334137 • Fax: +44 1926 314755 • Email: tpi@intras.co.uk



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Tube Products

INTERNATIONAL

The trade magazine for tube and pipe products



The March issue

Welcome to the latest Tube Products INTERNATIONAL, which is a special Tube Düsseldorf issue of the magazine. I hope that within its pages you will find all of the information you need during your stay in Germany.

Inside you will discover a full list of exhibitors and their stand numbers to help guide you around the vast exhibition (see page 54). We also have in-depth information on many of the innovative new products that are being exhibited in our Düsseldorf Exhibitor Section, which starts on page 66.

The magazine is a media partner of the show and is being distributed in several key locations. We will be in the main entrance hall (EN03) and I will be based in Hall 4, Stand B27 all week. Do come and pick up some extra copies or just to say hello and rest your weary feet for a moment. The entire team will be there in force so it would be a pleasure to meet you or to say hello to some old friends at what will be my third Tube show. It never fails to impress me with its scale and outstanding levels of organisation. Nothing else in the industry offers such a multitude of face-to-face international networking opportunities.

With well in excess of 1,000 exhibiting companies from dozens of countries, Tube once again broke its exhibitor record in 2014 (and has grown eight-fold since the first show in 1988). Last time several thousand extra visitors attended, so hopefully 2016 should be equally spectacular. The organisers tell me that interest in exhibiting has been as strong as ever, so it looks very promising. See you there.

Enjoy the magazine and have a fantastic stay in Germany.

Rory McBride
Editor



events calendar

2016



22-24 March

FABTECH Canada (Toronto, Canada)
International Exhibition
www.fabtechcanada.com



4-8 April

Tube Düsseldorf (Germany)
International Exhibition
www.tube.de



11-14 May

Lamiera (Bologna, Italy)
International Exhibition
www.lamiera.net



6-9 June

Tube Russia (Moscow, Russia)
International Exhibition
www.metallurgy-tube-russia.com



26-29 September

Tube China (Shanghai, China)
International Exhibition
www.tubechina.net



5-7 October

Tube India (Mumbai, India)
International Exhibition
www.tube-india.com



25-27 October

Indometal (Jakarta, Indonesia)
International Exhibition
www.indometal.net



25-29 October

EuroBlech (Hanover, Germany)
International Exhibition
www.euroblech.com



16-18 November

FABTECH (Las Vegas, USA)
International Exhibition
www.fabtechexpo.com



29 November – 1 December

ValveWorld (Düsseldorf, Germany)
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www.valveworldexpo.com



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Liberty managing director Sanjeev Gupta (left) at the Oldbury plant

Targeting opportunities with further Caparo acquisitions

The Gupta family, whose wider interests include the international energy, metals, industrial and trading groups SIMEC and Liberty House, has acquired further businesses from within the former Caparo Industries plc, as it targets major growth opportunities in the advanced engineering sectors.

In an agreement with administrators PwC, the family acquired parts of Caparo's advanced engineering products and precision strip businesses based at sites across the UK's West Midlands.

The engineering businesses – now called Liberty Advanced Engineering Products – have a high-profile customer base, with products including anti-vibration systems for naval vessels and high performance braking systems for NASCAR, London Taxis, US yellow school buses, the upgraded Warrior Land Rover, and the T1 Evolution hyper car.

The move, which follows the Guptas' purchase of businesses in Caparo's Tubular Solutions division – now renamed Liberty Tubular Solutions – marks a widening of the family's strategy to invest in the future of UK manufacturing and engineering.

Liberty House Group managing director Sanjeev Gupta said the latest acquisitions represented a major opportunity to preserve and develop what he described as the cream of British engineering expertise. "These businesses contain some world-leading knowledge and skill that has the potential to contribute to a significant engineering revival in the UK. Despite current difficulties, advanced engineering can create enormous value for the UK economy and I'm convinced that, based on the right business model, operations like these have strong growth potential in the UK and across various markets internationally where Liberty is present."

Liberty recently restarted production of hot rolled coil at its rolling mill in Newport, South Wales, and hopes eventually to recommence melting operations at the same site, which has an arc furnace already in place. The rolling mill has current capacity to produce around 1mn tonnes of coil a year.

Britain's largest union, Unite, welcomed the further sale of businesses from the Caparo Industries Group to the Gupta family. The latest sales mean that more than 1,000 jobs have been retained since the steel group called in administrators PwC. Unite national officer Harish Patel said, "This is further welcome news. The Caparo workforce is world class and it's good to see that the new owners recognise that retaining and investing skills is crucial to the business's success."

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Davis-Standard hosts medical tubing symposium

A medical tubing symposium held at Davis-Standard's technical centre in Connecticut, USA, introduced customers to new medical tubing advancements, new Davis-Standard medline capabilities and vendor technology. Customers also witnessed live medical tubing demonstrations on a fully equipped line in Davis-Standard's clean room, where engineers ran FEP tubing with barium sulphite stripes followed by alternate polymer tubing.

"This was our first medical tubing symposium in a number of years and

it was a great success," said Kevin Dipollino, Davis-Standard's product manager of pipe, profile and tubing systems. "We presented a variety of technical talks covering advances in medical tubing, including alternate polymer, micro bore bump tubing and FEP technology. Our vendors shared information on die designs, vacuum sizing and gauge control. The two-day symposium concluded each afternoon with line demonstrations in our clean room, which tied everything together. We look forward to hosting more in the future."



Tubing lab line

The medical tubing lab line at Davis-Standard features two MEDD (medical extruder direct drive) extruders and associated downstream equipment located in a climate-controlled clean-room environment. Customers are able to test new resins, make parts for proof-of-concept, and conduct downstream R&D prior to making large capital equipment investments.

The line is versatile and set up to run multiple resins, and also incorporates Davis-Standard's patented alternate polymer technology, with all components monitored and controlled by the EPIC III® control system.

"This symposium was very informative and well worth the time to attend," said Loren Bridges, manufacturing engineer for extrusion at Lake Region Medical. "The demonstration of the three-stripe FEP tubing was impressive and a fitting introduction to Davis-Standard's medical lab.

"We appreciated hearing from vendors in a smaller setting, and the format was excellent from start to finish. I am going to encourage co-workers to attend future Davis-Standard symposiums."

Davis-Standard, LLC – USA
www.davis-standard.com

Tata Steel partnership with IDC in Middle East

Tata Steel has strengthened its links in the Middle East through the formation of a partnership with International Development Company (IDC) in the region. IDC was established in 1978 in the United Arab Emirates (UAE) to supply equipment to oil, gas, power and petrochemical industries for private industrial projects.

Tata Steel recognised the need to have local representation in Abu Dhabi and chose IDC based on its 37 years of experience and history. IDC will support and assist Tata Steel in obtaining

national oil company approvals, which are required in the region.

Tata has a diverse products and services offering for the energy and power sector, including welded line pipe and ancillary products from its UK pipe mills.

Richard Broughton, the company's commercial manager, energy and power, said, "Tata Steel, along with IDC, will introduce its supply capabilities to oil and gas companies in the region, providing them with an opportunity to work with a supplier who has an

excellent track record of providing for offshore and onshore line pipe projects worldwide."

Tata Steel announced the partnership following increased focus on productivity in a bid to reduce the total cost of ownership for its customers' projects. The company has made a number of significant investments in its production equipment.

Tata Steel Europe Ltd – UK
feedback@tatasteel.com
www.tatasteeleurope.com

Van Leeuwen certified for new ISO 9001:2015

Van Leeuwen Pipe and Tube Group has been certified for the new ISO 9001:2015 standard by Lloyd's Register (LRQA) in the Netherlands. The company is the first company in continental Europe to receive this certificate based on the LRQA audit in October last year.

Characteristic of the new standard are aspects such as context analysis, stakeholder management and a better risk approach. Paul Bokdam, sales director central Europe of LRQA, said, "Van Leeuwen went to work with this new standard at a very early stage and shows with this certificate that new developments can be integrated quickly." Mr Bokdam officially awarded the certificate to Peter Rietberg, chairman of the board of Van Leeuwen, in the presence of Ineke Dezentjé Hamming-Bluemink, chairman of FME, the employers' organisation for the technological industry.

Mr Rietberg commented, "As a leading and innovative distributor and specialist

in steel pipe and tube applications, Van Leeuwen is committed to lead the way in compliance with this new standard in quality management. It also fits in with our aim of continuous improvement in our product range and services."

ISO 9001:2015 was issued as a successor to the ISO 9001:2008 standard. The amendments concern aspects such as stakeholder management, risk management, documentation and leadership.

The International Accreditation Forum (IAF) and International Organization for Standardization (ISO) have applied a three-year transition period, ending in September 2018, after which certificates issued based on ISO 9001:2008 will no longer be applicable.

The Van Leeuwen Pipe and Tube Group is an international trading company specialising in steel pipes, and pipe and tube applications. The group has 45 branches spread throughout Europe, the Middle East, Asia, Australia, and North and South America.



Van Leeuwen Pipe and Tube Group BV – Netherlands
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(From left) Peter Rietberg (Van Leeuwen), Ineke Dezentjé Hamming-Bluemink (FME), and Paul Bokdam (LRQA)



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PVC-O pipe and seal offering for water networks

Trelleborg's pipe seals operation has teamed up with PVC-O pipe manufacturer Molecor Southeast Asia (SEA) Sdn Bhd, to champion a new plastic pipe and integrated seal offering for pressurised water networks in Malaysia.

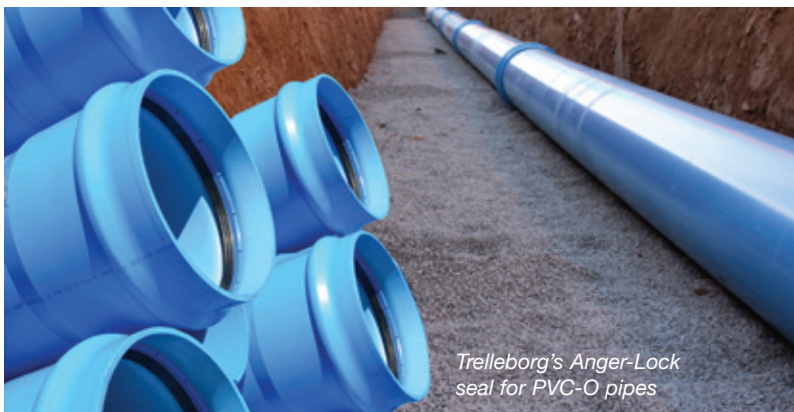
Manufactured in Malaysia, Trelleborg's Forsheda 576 (F-576) Anger-Lock seal will be installed into Molecor PVC-O pipes with a pressure rating of 16 and 25 bar, and ranging from DN 90 to 630mm. The new combination of pipe and seal will be marketed under the brand name Hypro.

Nomis Sim, CEO at Molecor SEA, commented, "The market has traditionally been dominated by ductile iron pipes; however, PVC-O technology such as ours enables a much lighter and stronger pipe solution. Hypro PVC-O pipes are best-in-class in terms of mechanical and hydraulic performance, durability and sustainability. The change in material from iron to PVC-O means lower costs, easier installation and reduced environmental impact thanks to its lower carbon footprint. By removing corrosion concerns associated with ductile iron, the service life of the pipe is extended too."

Production with pipes of DN 90 to 630mm has begun in Malaysia, with plans to expand the service into other territories in Southeast Asia in the near future. The F-576 Anger-Lock seal is designed with a rubber sealing element that is bonded to reinforcing plastic to make a one-piece seal. The soft plastic reinforcement enables easy installation of the seal into the pipe's socket, either manually or automatically, using special insertion equipment.

The fully retained F-576 Anger-Lock seal has a low jointing force, meaning that it cannot be displaced or lost during transportation and installation, and ensuring a reliable automatic insertion.

Trelleborg – Sweden
www.trelleborg.com



Trelleborg's Anger-Lock seal for PVC-O pipes



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A new pipe mill to be founded in Turkey

Odelya International Steel Co, a supplier of a wide variety of long and flat steel products, as well as large diameter SAW-H/SAW-S pipes, has reported that negotiations on partial acquisition of an existing spirally welded steel pipe mill in Turkey are in its plans.

A new SAW-Spiral pipe mill is planned to be formed by enhancing the existing mill after the completion of partial acquisition. This will be an initial step in the comprehensive vertical integration strategies of Odelya International Steel Co in the mid and long term.

“The acquisition will not terminate our existing sourcing channels. Instead, it is just a first step in the diversification of sourcing. The acquisition expresses much more than an increase in supply capacity at Odelya,” said Baruh Benkarmona, managing director, Odelya. “In our existing operations we already have a larger outsourced production capacity than any big scale pipe mill, thanks to our developed

sourcing channels and outsourcing capabilities.”

The new mill will mainly focus on production of submerged arc welded (SAW) spiral/helical steel pipes to be used for piling works and pipeline construction. The new plant will also have an internal lining and external coating facility for line pipes (water and wastewater, oil and gas projects) and piling pipes (port and berth construction projects). Lining and coating applications will be applied according to international standards and specific project requirements.

Polyethylene, polyurethane, polypropylene, epoxy (coal tar and glass flake) and bitumen coatings will be applied to external surfaces while epoxy (solvent-free) lining and cement mortar lining will be applied to the internal surfaces of the SSW pipes. The new mill will also be capable of manufacturing piling pipes (along with clutch/interlock section welding options), customised



according to the specific requirements of seaport (berth, pier)/combi-wall constructions and piling works, which are already among the main markets of Odelya.

“The pipes to be produced for EU and MENA countries in the new pipe mill will be marked with our own brand ‘Odelya’, the same as before,” said Armagan Celik, executive manager of sales and marketing.

Odelya International Steel Co – Turkey
odelya@odelya.com
www.odelya.com




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BSR wins international safety management award

BSR Pipeline Services Ltd, a joint venture between Tata Steel UK Ltd and Ramco Pipeline Services Ltd, has won an International Safety Management Award from the International Safety Quality Environment Management Association (ISQEM), a UK-based professional association.

The awards seek to celebrate and promote the success of its entrants in maintaining a safe and healthy working environment for staff, and are open to businesses, public and third sector bodies in all industries. Winners are recognised for proactive commitment to drive change, engage employees and

improve overall working environment and quality performance.

BSR Pipeline Services was personally commended by Wayne Taylor, president of the ISQEM, for reflecting the importance of high standards of health and safety in the workplace. John Harwood, general manager at BSR commented, "It is a huge honour to have won such a highly regarded award for our continued efforts in health and safety. At BSR health, safety, environment and quality are critical in any project we work on. I would like to thank all BSR employees for their continued enthusiasm and teamwork in achieving this prestigious award."

Established in 1988, BSR Pipeline Services offers a range of internal and external pipe coating services from its facilities in Hartlepool, UK. Following significant investment, BSR secured UKAS accreditation for laboratory and testing services at its facility, and can now offer a wide range of independent testing services to the coating industry.

BSR Pipeline Services Ltd – UK
www.bsrcoatings.com



SABIC's strain hardening test method becomes ISO 18488

An innovative way of ranking the long-term behavioural properties of plastics has become ISO 18488 standard.

The method, which was developed by petrochemicals company SABIC, reduces the time taken to test the slow crack growth (SCG) resistance of high density polyethylene (HDPE), with particular relevance for pressure pipes.

The strain hardening test method, which reduces the time and cost associated with getting material for plastic pressure pipes to market, was first launched in 2010. While traditional methods to evaluate environmental stress crack resistance (ESCR) in pressure pipe materials, such as the full notch creep

test, can take months, if not years, to complete, SABIC's development reduces this test time to just a few days. The strain hardening test method requires neither notched specimens nor detergents, further reducing the costs associated with the assessment of long-term behaviour in HDPE.

Hans Pierik, SABIC's senior manager for HDPE, commented, "SABIC is delighted that the strain hardening test method has been laid down in ISO 18488. For suppliers of pressure pipes this brings significant positive benefits. Obtaining reliable data on the long-term behaviour of plastics has always been difficult, and this innovation is an important development for the market."

The test was developed, in part, to help suppliers meet increasingly demanding requirements as set out by the Publicly Accessible Standard 1075, which necessitates higher resistance to slow crack growth than expected in the PE100 specification.

The method requires a tensile test at 80°C, and is based on fundamental postulates of crack propagation. ISO 18488 analyses the basic polymer properties that cause stress crack resistance – a different way of obtaining information on the behavioural properties of plastics than traditional testing methods.

SABIC – Saudi Arabia
www.sabic.com

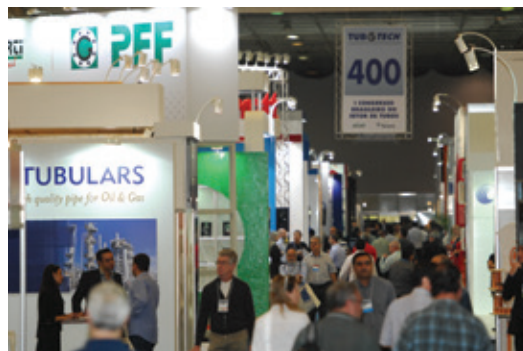
Brazilian trade fairs confirm positions in South American market

The international trade fairs TUBOTECH and wire South America were held jointly at the São Paulo Expo Exhibition & Convention Center in Brazil in October. TUBOTECH, a trade fair for tubes, valves, pumps, fittings and components, took place for the eighth time, while the second wire South America confirmed the trade fair concept after a successful premiere in 2013.

Although Brazil's economic growth has slowed down, and despite the negative growth expected for 2016, the products of the wire, cable and tube industries are of the same importance for Brazilian industry. This is especially true for the construction and automotive industries, as well as for household electronics in general.


"The Brazilian market continues to be highly attractive for our exhibitors," said Erhard Wienkamp, division director at Messe Düsseldorf GmbH. "Even in tense economic times it is important to fly your flag, make contacts, strengthen partnerships and to prepare business deals. We rely on the Brazilian market and will do our utmost to develop wire South America further, turning it into an established name in South America."

Together wire South America and TUBOTECH occupied 32,000m² of gross exhibition space, with approximately 500 exhibitors. The 11,000 international trade visitors attending the three-day trade fairs primarily came from the oil and gas, automotive and construction industries, metal construction and mining. Innovative



trends and technologies from the fields of pipe and tube making, finishing and processing as well as pipe and tube trade were centre stage at TUBOTECH. Since its debut in 2001 the tube trade fair has developed into a top event for experts from the tube sector in Latin America. Just under 500 exhibitors from 15 nations introduced their innovations in 2015. TUBOTECH and wire South America will be held concurrently from 3 to 5 October 2017 at the São Paulo Expo Exhibition & Convention Center.

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TEPPFA welcomes members across the supply chain

The European Plastic Pipes and Fittings Association (TEPPFA) has announced that global manufacturer Borealis is one of its first associate supplier members, following the broadening of its membership policy.

TEPPFA works to represent its members' views and concerns at an international level, guiding new legislation and policy, as well as promoting best practice.

In order to ensure that the full spectrum of the industry is fairly represented, TEPPFA expanded its membership remit to include suppliers of raw materials and additives to the sector.

Borealis, a provider of solutions in the fields of polyolefins, base chemicals and fertilisers, was quick to take advantage of the association's expansion.

The polyolefin products manufactured by Borealis form the basis of many plastics applications. The company works closely with its customers and industry partners to provide plastics solutions that make end products safer, lighter, more affordable and adaptable.

"Borealis welcomes the opportunity to work closely with relevant sector organisations representing manufacturers of plastic products," said Anton Wolfsberger, head of marketing consumer products and pipe at Borealis.

"Our company has collaborated with TEPPFA on several projects over the years and is delighted to now have the opportunity to build on that relationship by becoming an associated member of TEPPFA, and we look forward to being involved in many future projects

and initiatives related to the plastic pipes industry."


Building on its inclusive strategy, TEPPFA is keen to welcome more new members from across the supply chain to add their voice to the pan-European platform and help shape the future of the industry. In addition to representing its members in industry talks and debates, TEPPFA is a source of information on the plastic pipe systems industry, hosting a library of reports and guides on its website.

TEPPFA – Belgium
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Oceaneering secures Appomattox umbilical contract

Oceaneering International has secured a contract from Shell Offshore Inc to supply umbilicals for the deepwater Appomattox development located in the Mississippi Canyon area of the US Gulf of Mexico.

The order is for electro-hydraulic steel tube control umbilicals, totalling approximately 37 miles (60km) in length. Product manufacturing is planned to be performed at Oceaneering's umbilical facility in Panama City, Florida, USA, and is expected to be completed in the third quarter of 2017.

This contract is another award by Shell to Oceaneering for an umbilical under an enterprise frame agreement that was executed in November 2012.

Oceaneering is a global provider of engineered services and products, primarily to the offshore oil and gas industry, with a focus on deepwater applications. Through the use of its applied technology expertise, Oceaneering also serves the defence, entertainment and aerospace industries.

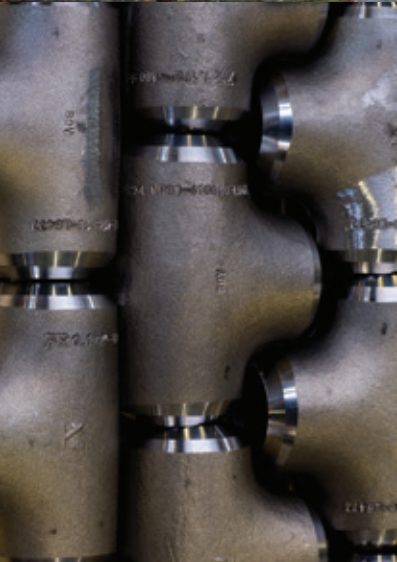
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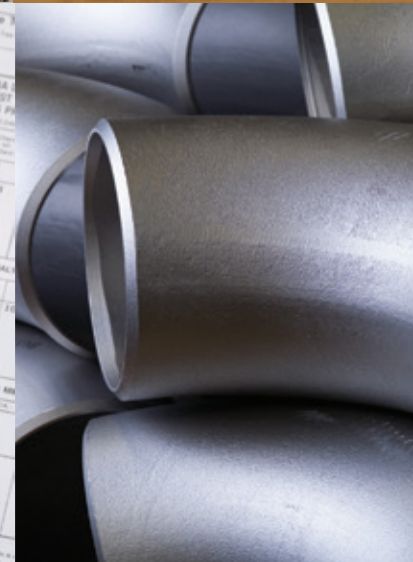
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Updated guide to testing of pressure pipes and fittings

Issue 2 of IGN 4-01-03, "Guide to pressure testing of pressure pipes and fittings for use by public water suppliers", is now available. Experts from Water UK and the BPF Pipes Group, representing pipe and fitting manufacturers and pressure test practitioners, have worked together to update the guidance and present it in a more concise way.

The document is for use by public water suppliers and their contractors, and is a key industry guide to the proof hydraulic testing of water and sewerage pressure

pipelines laid in the UK. It details the correct test procedures and result analysis methods for polyethylene, uPVC, ductile iron, steel and GRP pipelines. It meets the requirements of European standards and supersedes all other UK guidance, including Issue 1 of IGN 4-01-03 and WRc's guide to testing of supply pipelines and rising mains.

To accommodate the increasing use of polyethylene pipes in larger diameters with a wider range of SDRs, the document extends its guidance of PE100 pipe systems up to 1,200mm,

in SDR11, 17 and 21. One of the main contributors to the update of the document, Mark Hunter of Radius Systems, said, "Our aim was to create an all-encompassing, improved and easy-to-read industry guide for both water utilities and contractors. With the constant developments in the pipeline industry, it is in everyone's interest to keep our guidance documents up to date."

The guidance document, along with others, is available as a free download from the Water UK website.

Water UK represents all major statutory water and wastewater service supply organisations in England, Wales, Scotland and Northern Ireland. It works at national and European levels for the water industry on behalf of its members and the interests of all stakeholders.

The BPF Pipes Group is part of the British Plastics Federation (BPF), a trade federation of the UK plastics industry. It has been representing UK manufacturers of plastic pipes and fittings since 1962.

Water UK
www.water.org.uk

British Plastics Federation – UK
reception@bpf.co.uk
www.bpf.co.uk



Subsea contract for Gulf of Mexico deepwater field

Technip has been awarded a lump sum contract by Deep Gulf Energy II, LLC for the development of the Odd Job field. This ultra-deepwater field is located in Mississippi Canyon, offshore New Orleans, in the Gulf of Mexico, in water depths ranging from 1,330 to 1,825m.

The contract consists of project management and engineering services; fabrication and installation of approximately 23km of pipe-in-pipe flowline and 2km of steel catenary

riser (SCR); design, fabrication and installation of in-line sled; flowline end termination; fabrication of jumper; and pre-commissioning for the flowline and SCR system.

Technip's operating centre in Houston, Texas, USA, will manage the overall project. The SCR and flowline system will be fabricated at the group's spoolbase in Mobile, Alabama, USA. The offshore installation is expected to be performed in the summer of 2016 by

Technip's vessel *Deep Blue*, one of the world's largest ultra-deepwater pipelay and subsea construction vessels.

Deanna Goodwin, president of Technip in North America, commented, "Technip is delighted to continue its strong, long-lasting relationship with Deep Gulf Energy and to bring and share its unique experience to this new project."

Technip – France
www.technip.com

Penspen awarded contracts

Penspen, a provider of engineering and management services to the energy industry, has been awarded a contract worth \$4.3mn from Gas Transmission Company Limited (GTCL), under the Ministry of Power, Energy and Mineral Resources of Bangladesh.

The contract is for the Dhanua-Elenga and West Bank of Bangabandhu Bridge-Nalka gas transmission pipeline located in Bangladesh. Work on the 67km 30" high-pressure gas pipeline will commence in 2016-17.

Penspen will be involved in all aspects of engineering and project management, which will include design of the pipeline, stations and related facilities, preparing bidding documents and evaluating bids, and project management of construction. The project will be executed by Penspen's team in London, and will be supported by engineering company BETS, which will be undertaking environmental studies and providing all on-site construction activities. Penspen CEO

Peter O'Sullivan said, "We are excited to be part of a major project designed to help enhance natural gas infrastructure in Bangladesh. Penspen has previous experience working in the country and we are pleased to have been selected by GTCL as we continue to grow and expand in the region. Penspen has a strong history in providing engineering, project management, asset management and integrity services to the oil and gas industry for more than 60 years."

Penspen has also been awarded a contract from Sirius Group to conduct an engineering study for the monetisation of gas reserves from oilfields offshore Niger Delta. A key element of this agreement is the development of gas reserves of the OML 122 field, located in the offshore Niger Delta region 40km from the coastline of Southern Nigeria. The study is being conducted as part of Project Dawn, a three-year development project worth US\$1.2bn that includes the construction of a pipeline network to deliver natural gas to the Escravos-



Peter O'Sullivan, CEO of Penspen

Lagos Pipeline System (ELPS), which was designed and constructed under the supervision of Penspen more than two decades ago. The gas from Project Dawn will feed power plants and different industrial applications in Nigeria. The project will include an evaluation of the OML-122 field development, subsea gas pipeline and onshore central processing facility.

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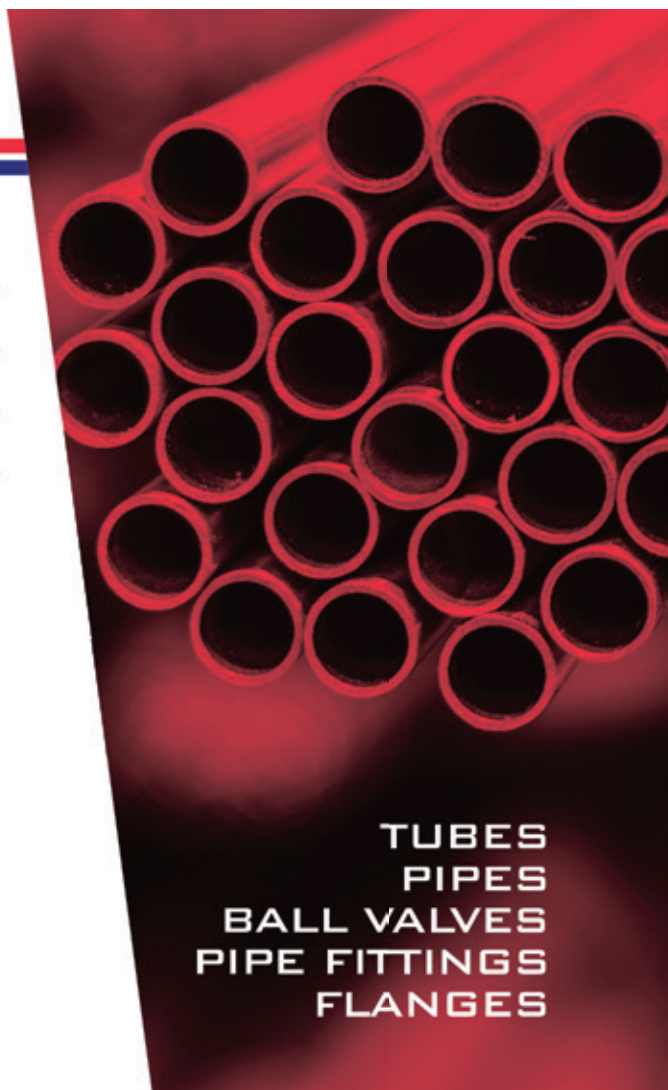


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Corrotherm CEO receives honorary doctorate in engineering

Jan Ward CBE, founder and CEO of UK-based Corrotherm International, has received the honorary degree of Doctor of Engineering from Southampton Solent University. Ms Ward started Corrotherm in Southampton in 1992 to supply high-grade metals to the oil, gas, petrochemical, power and desalination markets. The company has since expanded to establish a strong global presence, with offices in ten countries.

A mechanical engineer with more than 30 years' experience in metals manufacturing and distribution, Ms Ward worked at board level for several specialist metal producers and distributors prior to founding Corrotherm. Her career has taken her to Europe, the USA, the Middle East and the Far East, where she has forged strong relationships with customers and suppliers.

Ms Ward has for 15 years advised various UK government departments on business issues locally, nationally and internationally. She also holds several advisory and non-executive positions specialising in innovative low-carbon industrial process technology and advanced manufacturing.

In 2009 Ms Ward won the NatWest Everywoman Award, which champions female entrepreneurs, and in 2013 she was named international director of the year in the Institute of Directors London and South East Director of the Year Awards.

In 2014 she featured in *The Manufacturer's* top 100 UK role models, and last year was made Commander of the British Empire for services to business, receiving her CBE from His Royal Highness Prince Charles in a ceremony at Buckingham Palace.



Corrotherm CEO Jan Ward CBE has received an honorary doctorate in engineering from Southampton Solent University
Photo credit: Southampton Solent University

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UK titanium caster secures North Sea oil and gas industry approval

Castings Technology International (Cti) has successfully completed the latest stringent approvals process required to supply titanium castings for use by the Norwegian offshore oil and gas industry.

Approval means the UK-based specialist supplier of difficult-to-source and low-volume precision steel, superalloy and titanium castings to the high-value manufacturing sector can supply conventional and centrifugal castings of any weight for use on rigs and under the sea.

Cti claims to be one of a limited number of companies in Europe with the capability and skills to cast highly reactive metals like titanium, which is used in the North Sea for its high strength-to-weight ratio and corrosion resistance.

The company supplies customers in the oil and gas industry with titanium castings, including flanges and valve bodies, made using either traditional gravity-fed or centrifugal technology, depending on the weight and complexity of the product. Its new approval, to the latest MDS T02 Rev 5 requirements for commercially pure titanium within the Norwegian petroleum industry's M-650 Rev 4 standard, supersedes its previous NORSOK Rev 3 approval.

Cti can currently manufacture titanium castings with a cast weight of up to 40.4kg, but is set to increase its capacity to 500kg.

Castings Technology International Ltd – UK
info@castingstechnology.com
www.castingstechnology.com

Lightweight pipes for aircraft high-voltage cable conduit lines

To improve the overall fuel efficiency and reliability of its new commercial aircraft platform, the Commercial Aircraft Corporation of China (COMAC) selected Victrex pipes rather than metal tubing for use in high-voltage cable conduits. The new thermoplastic solution, which is claimed to deliver weight savings of up to 45 per cent, is being supplied through the partnership of Beijing FeiHang JiDa Aviation Technology Co, Ltd and Victrex.

COMAC and Beijing FeiHang engineers are working with Victrex to address the challenges of launching a civil aircraft that is safe, cost effective, comfortable and environmentally friendly.

The Victrex PEEK-based tubing surpassed airworthiness testing in China, which included maintaining operational performance under impact, loads, temperature variations, and other environmental conditions. With the technical expertise and support of Victrex, the companies were able to design a lightweight high-voltage cable protection system within a much shorter development cycle.

Victrex pipes are typically used in the replacement of aluminium, titanium and stainless steel tubing systems. For this specific application, the Victrex PEEK-based tubing was tested and validated

by COMAC, and achieved weight savings of up to 45 per cent when compared with titanium equivalent tubing. This weight reduction can lead to both improved fuel efficiency and a reduction in CO₂ emissions. The durable tubing system also serves as a shock absorber in the protection of the cables.

"Victrex is focused on delivering high-performance solutions that can help airframers and tier suppliers achieve their goals," stated Xue Wei, aerospace key account manager at Victrex. "It is rewarding to partner with companies like Beijing FeiHang to achieve the best results, not only in component performance, but also in delivering improvements in efficiencies."

Victrex collaborated with the engineering teams to design a system that is able to take advantage of a much quicker manufacturing process that does not require machining or anti-corrosion treatments as metals would.

Victrex plc – UK
www.victrex.com

Beijing FeiHang JiDa Aviation Technology – China
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Marine approvals for 24° tube connectors

Shipbuilding and offshore engineering are demanding areas of application for hydraulic systems, and certification by the relevant societies is essential when it comes to using components such as tube connectors.

For this reason, Stauff has had its range of 24° cutting ring, sealing cone and welding cone tube connectors from the Stauff Connect series tested by two more leading international classification societies. Both societies – Lloyd's Register and Bureau Veritas (BV) – have issued the appropriate certification.

In both cases, the certificates apply to the entire range of Extra Light (LL), Light (L) and Heavy (S) series, which are available for outer tube diameters of 4 to 42mm and were developed for maximum pressures of 100 to 800 bar, depending on series and diameter.

The temperature range that the connectors have been certified for depends on the seal material used.



*The Stauff Connect range has been approved by both Lloyd's Register and Bureau Veritas for use in shipbuilding and offshore engineering
Photo credit: Walter Stauffenberg GmbH & Co KG*

When using seals made from FPM/FKM (Viton), for example, media temperatures of up to +200°C are permitted.

The certifications permit the use of 24° tube connectors in hydraulic systems in shipbuilding and offshore engineering.

The benefit of this is that the zinc/nickel coating of the components offers standard steel corrosion protection that exceeds previous market standards.

Over 1,200 hours resistance to red rust and base metal corrosion were achieved in the salt spray test in line with EN ISO 9227. This exceeds the highest corrosion protection class K5 as defined by the VDMA in standards sheet 24576.

For users in the shipping and offshore industry, this type of corrosion protection also offers the advantage of remaining effective even after possible mechanical damage to the fitting, which can never be excluded in the rough shipping and port environment.

If the surface is damaged, only the top layers of sealing and passivation might be removed, but not the zinc/nickel layer underneath which guarantees the

actual corrosion protection. The coating is also highly ductile, which makes it less susceptible to damage.

For users in other areas of application involving hydraulic systems, these approvals document the quality and the safety level of the connecting elements, even in adverse ambient conditions: extensive programmes of testing involving leak tests, burst pressure tests, alternating pressure tests and vibration tests are essential requirements for certification.

The 24° tube connectors from Stauff, whose construction is defined in accordance with ISO 8434-1 and DIN 2353, are used worldwide.

Numerous straight, angled, T-shaped and cross-shaped variants used as connectors or reducing fittings, with common screw-in/screw-on threads or with welded-on or pipe glands, cover all requirements and allow easy designing of extensive and complex pipeline systems.

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UK record for pipe restoration

Pipe Restoration Services (PRS) has completed the longest length of in-place restoration of a small-diameter lead drinking water service pipe in the UK.

The record was set across a busy 15m stretch of the High Road in Bushey Heath, Hertfordshire.

Lead pipes in the property where the work took place had previously been replaced by the owner.

Affinity Water's standard practice is to replace or rehabilitate the pipes on its side.

Moling was not an option as the road had multiple other utilities within it. PRS was called in to provide an alternative solution.

Open cut would have caused major disruption as the crossroad junction is controlled by four-way traffic lights that would have had to be taken out of service and temporary traffic management put in place.

Tony Hanks, general manager at Pipe Restoration Services, said, "Traditional pipe replacement methods would have resulted in between three and four days of disruption. This type of project would also require major noticing with the Highways Agency."

PRS completed the project in one day with limited customer downtime using ePIPE 'no dig' technology, which has a two-hour return-to-service resin.

Work was completed with no road excavations or closures or traffic disruption.

Prior to work commencing the property had a 12 litre per minute water flow rate.

On completion, the flow rate was 15+ litres per minute and lead levels were brought into compliance.

Pipe Restoration Services – UK
info@piperestorationservices.co.uk
www.piperestorationservices.co.uk

NOV acquires Pipex

National Oilwell Varco (NOV) has finalised its acquisition of Pipex Ltd. As part of its post-acquisition processes, NOV will closely evaluate both FGS (Fiber Glass Systems) and Pipex, and will make decisions regarding how to best integrate Pipex's products and services into its global sales and marketing efforts. Until that strategic

review is completed, the sales and operations structures of Pipex will remain unchanged.

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- Roller for discharge roller tables by manufacture of cold-rolled sheets. Rollers are manufactured of low-alloyed iron. The diameter range of the roller shells is from 200mm to 340mm.
- Rollers for continuous casting machine (CC machine). Diameter range of the roller sleeves is within 180...340mm. There are manufactured both single-layer rollers of the steel grade 1.7034, 1.7225, 1.2311, 1.6582, 1.4057, and more wear-resistant bimetallic ones with outer layer of the steel grades 1.2379, 1.4028, inner layer of the steel grades 15CrMoV5-9, 1.7733, 1.2311, 1.0528.
- Shells of the coke crushers of diameters up to 950mm of the steels 66Mn4, 1.3401.
- Drums for hot dipped galvanizing lines of the Steel 1.4429.
- Coilers of diameters up to 600mm of the steel St 52 for the lines to manufacture foils.
- Containers of the steel 1.2542 for the tube extrusion plants.
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- Radiant tubes for the heat-treatment furnaces with controlled atmosphere (U-shaped, W-shaped, P-shaped). The tubes diameter range is within 100...280mm. Steels to be used: 1.4841, 1.4845, GX48NiCrWSi48-28-5.
- Hollow billets of alloyed grades of steel of the range within 130...550mm for fabrication of tubes by means of forging, on the skew rolling mills, pilger mills and tube-extrusion assemblies, ring reeling machines.



- Ingot molds. They are manufactured of grey and alloyed irons with heat treatment and machining. Outer diameter to be up to 1066mm.
- Cast details of heat-resistant steels for heat-treatment furnaces: hot riders, beams, bars, lining plates, stands, baskets, muffles, retorts.

Autonomous ICD technology contract

Tendeka, a provider of completions systems and services to the upstream oil and gas industry, has signed a two-year agreement with SapuraKencana Energy Peninsula Malaysia Inc (SKE) for the exclusive application of Tendeka's FloSure™ autonomous inflow control device (AICD) valves. The contract was awarded through Tendeka's partner in Malaysia, Aemos.

The work will include modifying existing ICD screens to incorporate Tendeka's AICD valves on the SKE-operated East Belulut oil field, located approximately 160 miles offshore Peninsular Malaysia. Early water or gas breakthrough can result in lost recovery, lost revenues and reduced well life. Tendeka's AICD, part of the company's fully integrated sandface completions solution, self-adjusts to choke back zones where unwanted water or gas breakthrough has occurred to promote oil production. More

than 10,000 FloSure AICD valves have been installed to date globally in light and heavy oil wells, ensuring uniform production longevity and increasing production rates by up to 50 per cent in comparison to passive inflow technology.

Gillian King, Tendeka's vice president of APAC, commented, "We are delighted to have been awarded this contract, our first AICD technology in Malaysia. Detailed analysis of the field's reservoir characteristics indicate it is a perfect application for our technology and the modelling shows significant productivity improvements. This will be the first deployment of AICD technology within SKE-operated assets. We look forward to working with SKE to install this innovative solution."

Tendeka – UK
info@tendeka.com
www.tendeka.com

Centravis enters US boiler market

Centravis, a supplier of seamless stainless tubes and pipes, has received conditional approval from US electric utility Southern Company for supply of stainless tubing for pressure part fabrication. The approval is the result of analysis of Centravis's 304H and 316H steel grades. Conditional approval was granted on the basis of samples analysis. The company now plans to ship tubes of TR304H and TR347H steel grades for the customer's current projects, after which it is expected to receive final approval.

Southern Company, headquartered in Atlanta, Georgia, USA, is the largest end user of conventional boiler pipes in the southern and southeastern United States.

Centravis – Ukraine
www.centravis.com

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Metal-coated, high-strength steel for thermosolar plants

SSAB has agreed with the Spanish company Cie Egaña to deliver a total of 25,000 tonnes of metal-coated, high-strength steel to be used to manufacture support arms for parabolic reflectors in thermosolar plants. The technology employed in these projects has been developed by the Spanish company Sener.

Cie Egaña will deliver support arms for the parabolic reflectors for the NOOR II thermosolar plant in Morocco and a thermosolar plant in Kathu, South Africa. SSAB's deliveries began in December 2015 and will continue until October 2016.

The support arms of parabolic reflectors are constantly exposed to extreme weather conditions. The high-strength steel delivered by SSAB has a thick Galvan coating that will prevent corrosion and prolong product lifetime in plants like these, which can produce electricity for decades. SSAB's metal-coated, high-strength steels enable the manufacture of stronger, lighter support structures.

"Our high-strength, formable steels are ideal for the support arms of parabolic reflectors," said Tony Harris, head of sales, Continental Europe, at SSAB Europe. "Cie Egaña utilises its stamping technology used in the automotive

industry. The manufacturing process is efficient, and bolted joints make the assembly and installation quick."

The NOOR II thermosolar plant will have an output of 200MW, and the Kathu plant an output of 100MW. SSAB delivered metal-coated, high-strength steels to the NOOR I thermosolar plant, built earlier in Morocco. When the NOOR II plant is completed, the combined output will be 360MW. The Kathu thermosolar plant will provide electricity for 80,000 homes.

SSAB AB – Sweden
info@ssab.com
www.ssab.com

OMS shortlisted for innovation award

Optical Metrology Services (OMS) has announced that a report submitted by software engineer Nicolas Pellerej has been shortlisted for a pipeline industry award. Open to all entrants under the age of 35, the Pipeline Industry Guild's (PIG) annual Young Professionals Network (YPN) competition recognises innovation in the industry, and Mr Pellerej has been shortlisted for the development of WeldAnalysis software.

WeldAnalysis is OMS's weld defect inspection software, and provides the pipeline industry with the means to quickly analyse and approve weld profiles. Mr Pellerej's document

outlines the speed, accuracy and flexibility of the new solution. Denise Smiles, CEO of OMS, said, "We're delighted that the hard work of Nicolas and his colleagues is being recognised by the Pipeline Industry Guild. Nicolas is a strong part of the OMS team and was central in developing our industry-leading WeldAnalysis software, so a very worthy finalist. While our innovative culture at OMS is primarily driven by a desire to meet the needs of our customers, it's great to be recognised by our peers."

Optical Metrology Services Ltd – UK
info@omsmeasure.com
www.omsmeasure.com



Nicolas Pellerej

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Dedicated training centre for BIM and pipework

Loughborough University, UK, has launched a dedicated training centre to support the building and industrial services industry in tackling the challenges of pipework innovation and energy efficiency installation. BISPA (Building and Industrial Services Pipework Academy), which opened on campus in January, is a collaboration between the School of Civil and Building Engineering, global steel manufacturer Tata Steel and its tubes business, and the Chartered Institution of Building Services Engineers (CIBSE).

Building information modelling (BIM) provides insight to help plan, design, construct and manage buildings and infrastructure. The training centre, which was established to raise awareness of BIM and pipework-related issues and innovations, will offer CIBSE-accredited CPD training courses for designers, HVAC pipe installers and Tata Steel customers. The UK has been set a target to reduce its share of carbon emissions by 80 per cent by 2050,

and BISPA will promote cost-effective energy saving practice in pipework system design and installation. The right sizing of pipework – which is often used in large quantities – would lead to energy-efficient operation, resulting in annual cost savings. BISPA aims to educate HVAC designers, installers and local traders on how to select the correct pipework, measure heat losses and properly insulate the pipes in new and retrofit commercial buildings.

The training courses use interactive teaching rigs and a variety of measuring devices and techniques to demonstrate, for example, heat loss from hot water pipes (using infra-red cameras), and pressure losses associated with different diameter pipes and pipe fittings. Modules are also available for pipework specifications, hot-finished versus cold-formed products, and system corrosion and service life issues. Lab-based workshops will demonstrate essential engineering principles relating to the lifecycle of a piping network, while

computer-based workshops will offer an introduction to object-orientated product modelling as a pre-requisite for BIM. The use of BIM in the construction industry becomes mandatory this year, and BISPA will provide validated pipe selection and fitting calculators via 3D BIM.

Dr Mahroo Eftekhari (FCIBSE), reader in building services engineering and course director for MSc in low energy building services engineering at Loughborough University, said, "Through our discussions with companies, we have found a gap in knowledge of selection, sizing and installation of tubing for HVAC systems. Many HVAC pipes have been sized larger than required. This can result in cost and energy consequences because of the large quantities of pipework involved."

Loughborough University – UK
enquiries@lboro.ac.uk
www.lboro.ac.uk

BISPA – UK
www.bispa.org

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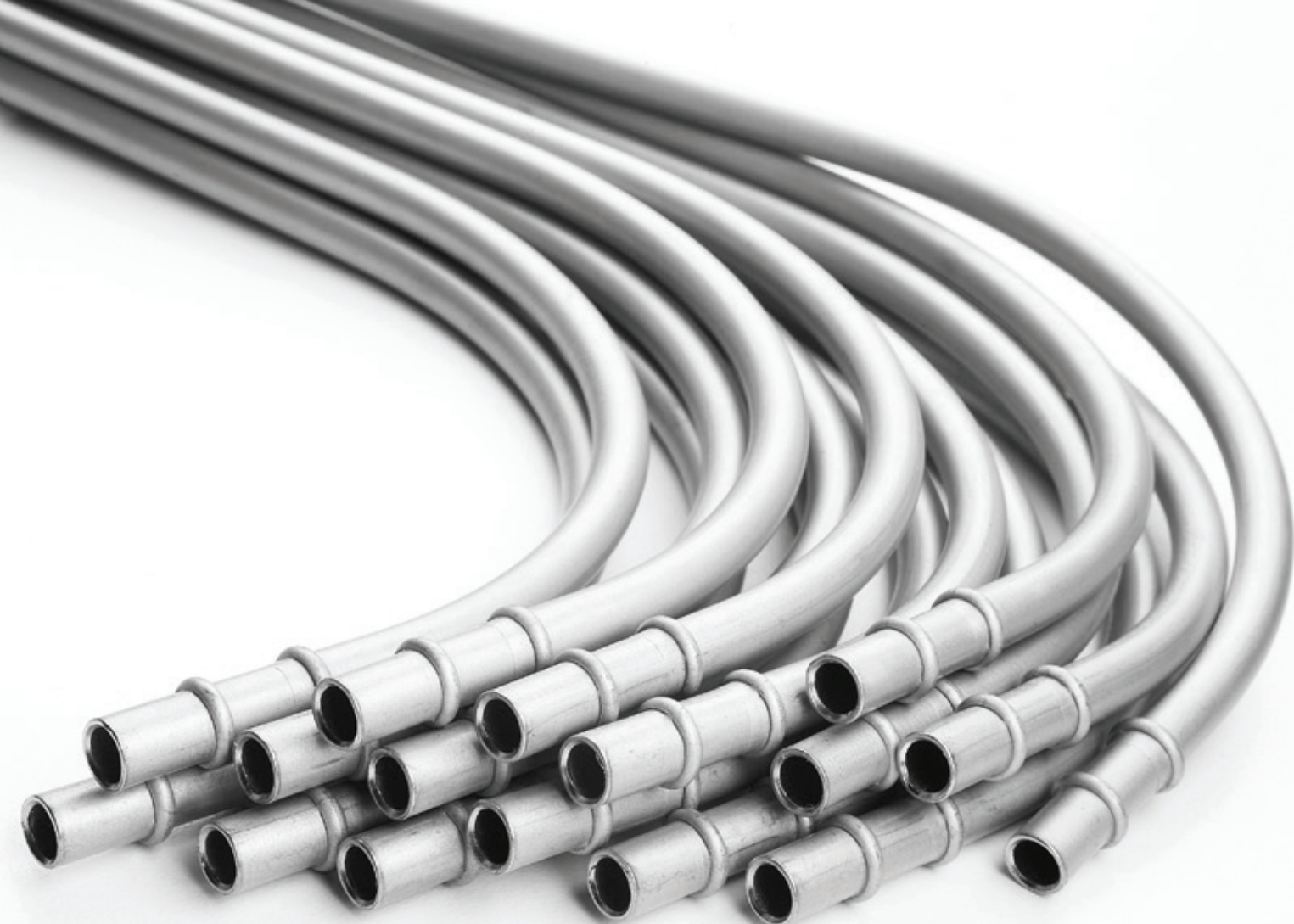
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www.alvenius.com



Corrosion resistant tubes

products & developments

Bendable and formable Galfan coated steel tubing

Since 1958, Markin has aimed to be a trusted value-added steel tube manufacturer, recognising that its customers' stringent specifications, delivery and cost requirements are driven by the demanding industries they serve.

The company states that it invests significantly in its people, equipment and processes to ensure that it exceeds customers' expectations for product

quality, on-time delivery and innovative value-added solutions.

In addition to its range of copper and nickel ID options, Markin manufactures Galfan® coated steel tubing.

Its Galfan tubing, available in either 50g/m² or 100g/m², is claimed to offer superior corrosion resistance even in the most challenging applications and environments. The product is fully

bendable and formable, and does not require end stripping or secondary plating, enabling cost savings in terms of time and logistics, processing expense and environmental impact when switching from alternative products such as PVDF, nylon or powder coated tubing.

Markin Tubing, LP – USA
solutions@markin.com
www.markin.com

Partner for European pipes and tubes

ArcelorMittal Tubular Europe produces a wide range of tubes and pipes at nine production sites across four European countries. Seamless and welded pipes and tubes are produced, including electric resistance welded (ERW), high frequency induction (HFI), precision, cold-drawn, and both spiral and longitudinal submerged arc welded (HSAW and LSAW).

In 2015, ArcelorMittal Tubular Europe delivered pipes and tubes to sectors including energy, construction, engineering and automotive. An increasing share of its output is value-added products, which have been developed in cooperation with customers.

"We appreciate our long-standing customer relationships," said Jeyachandran Rajasekaran, CEO of ArcelorMittal Tubular Europe. "These relationships endure because of our focus on continuous improvement, and our extensive

range of products which serve every market segment. Our steady growth, even in extremely difficult market conditions, gives us confidence that we can master very challenging orders and customer demands in the future."

ArcelorMittal Tubular Europe offers seamless pipes with an outside diameter ranging between 21.3 and 508mm, and wall thicknesses up to 50mm. Access to high-quality steels allows the company to create pipe and tube solutions for challenging applications.

Mills in Romania and the Czech Republic have supplied many complex orders, including structural tubes for the Azerbaijan Olympic Stadium, piping systems for the UK Navy's flagship aircraft carriers, and oil and gas projects around the world. Its flexible operations enable the company to meet the demands of both large and small projects, including the capability to produce individual pipes.

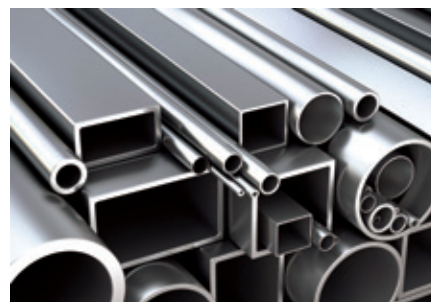


Photo © Inozemseu Konstantin

ArcelorMittal produces a wide range of tubes

Recent investments have enabled the company to extend the outside diameter of its HSAW products up to 1,016mm.

A wide range of grades are available in strengths up to X70, and additional services include end preparation for sockets, cut-to-length pipes and an in-house coating facility.

ArcelorMittal Tubular Europe – Luxembourg
<http://tubulareurope.arcelormittal.com>

Fire extinguishing sprinklers with press fittings

When creating sprinkler fire extinguishing systems, press fittings can be used for both wet and dry systems. The environmental conditions in the location where the sprinkler fire extinguishing systems will be installed are the first factors to be taken into consideration when choosing whether to use the wet or dry type of system.

Most sprinkler fire extinguishing systems are created using a wet system – the system is permanently filled with water under pressure. However, if the room temperature can reach a point where water dispensing is not possible, dry systems must be used.

Dry sprinkler fire extinguishing systems are used in all areas where the continuous presence of water inside the pipes could compromise its dispensing. This mainly refers to areas with very low temperatures, where there is a risk that the water could freeze, such as garages, warehouses and areas without heating.

There are also special areas such as laboratories and refrigerated cells, where the temperature is forced below zero.

Problems also occur with the opposite situation, in areas where the temperature could become so high that the water is vaporised.

Eurotubi Pressfitting has received various certifications throughout the world for its fire extinguishing product lines.

The company's catalogue lists two variants for sprinkler fire extinguishing systems: carbon steel – special fittings and pipes that are galvanised inside and out; and stainless steel – pipes and fittings made of AISI 316L. Both ranges are available in diameters from 22 to 108mm.

Eurotubi Europa Srl – Italy
info@eurotubieuropa.it
www.eurotubieuropa.it

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Pipe fusion for large-diameter pipe

The release of the TracStar® 1200 brings the largest pipe fusion capability to date in McElroy's line of self-propelled, track-mounted fusion machines.

The TracStar 1200 has many of the same benefits as the smaller models, but with some major upgrades. It features an advanced emission control engine that burns ultra-low-sulphur diesel to meet the EPA's latest Tier 4 standards. The cowling has also been redesigned so that technicians have better and quicker access to the engine for maintenance.

"The TracStar line was quickly embraced when it was launched 18 years ago and its design continues to improve based on the input we receive from the field," said the company's president, Chip McElroy. "The ability to propel the machine from joint to joint has always been a major selling point and this feature will help meet the growing demand for fusing large-diameter pipe."

The TracStar 1200 butt fuses pipe from 450 to 1,200mm OD (16" to 48"), and can traverse almost any terrain, including mud, loose soil, snow and gradients up to 30 per cent. It is self-contained with an on-board generator for powering the hydraulic pivoting heater and facer. The three- or four-jaw convertible carriage is easily removable for in-ditch use.

Other new features include hydraulic outriggers for machine stability and levelling, an ergonomic operator platform and remote engine stop/start capabilities.

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



The TracStar 1200 from McElroy

Suite of digital hand tools

Precision measurement specialist Optical Metrology Services (OMS) has launched a comprehensive portfolio of compact digital hand tools. Developed to improve project efficiencies in the field, the range ensures fast, accurate and repeatable electronic assessment of pipeline geometry.

Durable, portable and designed with the user in mind, the suite comprises eight individual quality assurance tools.

Developed in-house by OMS's team of precision measurement technology experts, each unit offers a real-time solution to overcome challenging pipeline fit-up and welding requirements.

From pipe ovality, end squareness and pipe straightness, to girth weld integrity and bevel alignment, the next-generation portfolio provides a solution for on-site pipe measurement. Videos highlighting the tools' capabilities in

detail, as well as a brief introduction to their application, are available to watch at www.youtube.com/omsmeasure

Commenting on the launch, Hugh Davies, director of client solutions at OMS, said, "With precision measurement key to the success of any pipeline project, we wanted to introduce a comprehensive solution to help quality control managers, welders, pipe mills and coating yards to ensure that the various pipe features are all within specified project tolerances."

The range of eight tools consists of Pipe Straightness Tool, Closed-gap HiLo Tool, Open-gap HiLo Tool, Girth Weld Assurance Tool, Ends Squareness Tool, Bevel Tool, End Hooking Tool and Manual Tool.

Optical Metrology Services Ltd – UK
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Tungum alloy tubing

The use of Tungum alloy tubing in place of super duplex or austenitic materials on a typical offshore production platform can lead to significant savings, according to supplier Tungum Ltd. The company states that Tungum alloy tubing (nickel, aluminium, silicon, brass) has excellent corrosion and fatigue resistance properties, as well as an unusually high strength to weight ratio, coupled with good ductility.

When used in high-pressure hydraulic or pneumatic circuits, these features, together with inherent 'clean bore' characteristics, combine to give an easily constructed and high-integrity system. When built, the systems require a minimum of purging and no external protective treatment.

Tungum Alloy Tubing also has a high proof to ultimate stress ratio, which enables system proof tests to be conducted well above its working pressure without risk of permanent set taking place.

The tubing has a high level of general corrosion resistance, allowing it to be specified for use in systems containing or operating in the presence of a variety of substances and solutions. It possesses a natural protection mechanism. Specifically in offshore applications or areas of high condensation, on exposure to these environments a thin oxide coating is generated over the exposed surface. This layer is approximately 50 microns when complete.

The tube surface grows a verdigris oxide layer and starts to become discoloured. As this occurs, it shows that the material's natural protective system is working. Under this oxide layer, the material is perfect and will remain so for its operational life or the lifetime of the installation.

Tungum alloy tubing has been used in applications across numerous industries for more than 80 years. Three of the major sectors where Tungum tubing is

widely used are oil and gas, defence, and in hyperbaric chambers.

Tungum alloy tubing has been in use offshore since the mid 1970s for non-process applications. It is also used for oxygen lines due to its inherent non-sparking characteristics. Industry awareness of its use in marine environments is evident as operators question the use of stainless steel from both safety and economic viewpoints. Engineers on the latest offshore projects are looking for at least 30 years of operational life. Tungum alloy tubing does not need replacing in this timescale.

The tubing is compatible with standard fittings, and almost any industry-recognised 316 stainless steel instrumentation tube fitting can be used in conjunction with Tungum tubing. Typically this is the twin ferrule type.

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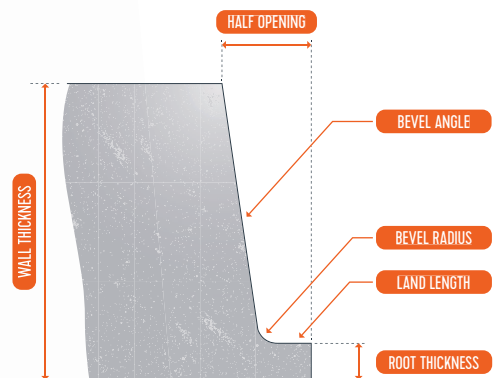
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Introducing the Laser Bevel Tool.



Improve pipeline fit-up efficiency and increase weld integrity.



Example of a J-prep bevel is shown here.
Tool not limited to J-prep bevels.

Prior to automatic welding, verifying the shape of a bevel is crucial. The new Laser Bevel Tool from OMS eliminates doubt about bevel compliance and provides pipeline engineers with an unrivalled insight into critical pipe bevel geometry.

The tool can be deployed immediately after bevelling, prior to pipes being moved into production, and performs a complete scan of a pipe end within 16 seconds. This produces a 360 degree measurement profile. The operator receives a simple red or green, go / no-go indication with the option to investigate parameters in greater detail using bespoke software.

CONSISTENTLY SAFER PIPELINES.

OMS provides independent specialist pipeline inspection and fit-up services to the oil and gas industry. Over the last 10 years, the company has worked on all the major projects worldwide. In addition to this, the company manufactures a bespoke range of quality assurance hand tools to assist pipeline engineers.

FEATURES INCLUDE:

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Pipeline assessment software compatible with UT devices

Creaform develops, manufactures and sells 3D portable measurement technologies, and specialises in 3D engineering services. The company has released Pipecheck 3.2, which brings together NDT and NDE system capabilities, such as 3D scan data and ultrasonic testing (UT) into its intuitive and powerful pipeline integrity assessment software platform.

Compliant with the ASME B31G and B31.8 industry standards, Pipecheck enables the identification of potential issues on both the inner and outer linings of pipes, including corrosion, dents or gouges in the metal. Pipecheck now introduces true wall thickness assessment analysis based on the combination of various integrity assessment technologies.

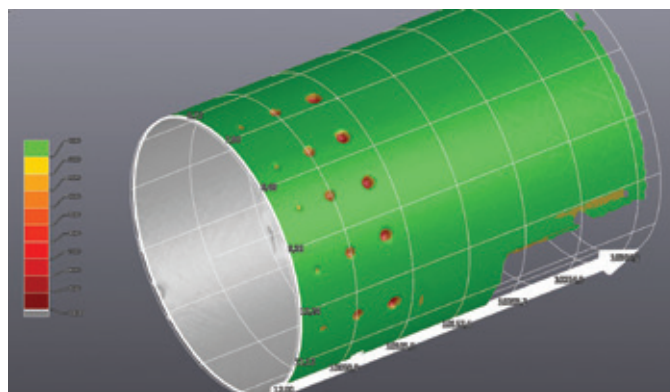
The idea behind Pipecheck 3.2 is to combine the strengths of the best NDT equipment into a single software to get the most accurate and realistic damage evaluation of the pipeline – both inside and outside.

Other enhancements in this new release include the ability to edit a scan in real time, improving workflows by saving time during data reconstruction for

increased field efficiency. Section tools can be used to easily clean artefacts that do not need to be analysed, such as a flanges, welds and valves, etc. Several improvements were also made to increase the precision and reliability of the inspection results.

Combined with the benefits of Creaform's metrology-grade 3D scanners, the software contributes to reducing potential human errors and providing reliability that is beyond current regulatory requirements. "Pipecheck is the safest and fastest solution for pipeline integrity assessment on the market," said Jérôme-Alexandre Lavoie, product manager. "By opening Pipecheck to other assessment solutions, NDT service companies and pipeline engineers can get more secure and traceable analyses from which they can extract more data to ensure the safest assessment there is. It is the first step to a new generation of pipeline management solutions."

Creaform offers solutions such as 3D scanning, reverse engineering, quality



Pipecheck introduces a new and safer way to perform pipeline integrity assessment

control, non-destructive testing, product development, and numerical simulation (FEA/CFD). Its products and services cater to a variety of industries, including automotive, aerospace, consumer products, heavy industries, healthcare, manufacturing, oil and gas, power generation, and research and education.

Creaform Inc – Canada
www.creaform3d.com

Instrumentation products

Brennan Industries, an international supplier of critical flow components, can now supply a complete line of instrumentation products, including a comprehensive range of instrumentation tube fittings and adapters, clamps, valves and stainless steel tubing.

Brennan's instrumentation tube fittings and adapters are ASTM certified and have been tested to the highest standards. All instrumentation tube fittings are interchangeable and intermixable with competitor brands. The complete line of pipe and tube clamping includes heavy-duty style tube

and pipe clamps in both single and double configurations.

In addition to the instrumentation fittings, Brennan carries a full line of seamless and welded stainless steel tubing. The expanded instrumentation valve offering includes bonnet valves, needle valves, and ball and check valves, all available in a variety of materials including stainless steel and brass.

Brennan Industries, Inc – USA
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www.brennaninc.com



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Stainless steel, nickel and titanium tubes

Energy Tubes Ltd has been manufacturing stainless steel, nickel alloy and titanium tubes for a number of years. The company continuously invests in technology, machinery and workforce, and has seen its products used in a wide range of projects around the world.

In recent years Energy Tubes has expanded its premises to enable it to keep up with growing demand. The

expansion allowed the company to increase its warehousing capacity, as well as add new machinery, quality inspection processes and more office space. Energy Tubes was already providing service to market areas including automotive, petrochemical and medical industries. The expansion allowed it to target a further range of trades, and to offer additional support to new and existing customers worldwide. The company stocks sizes from 6 to

42mm OD in gauges 0.4 to 2mm tubes, which can be rolled in various different material specifications.

Energy Tubes can help customers with new product development, technical help or special requests for bespoke production.

Energy Tubes Ltd – UK
info@energytubes.com
www.energytubes.com

Silicon hoses from Artel Rubber Company

Artel Rubber Company is a silicone hose manufacturer based in the UK that has been operating for more than 24 years. It supplies major industry sectors worldwide from its ISO 9001:2008 accredited manufacturing facility.

Its rubber and silicone hoses have been designed, developed, tested and

certified to meet the exacting quality standards for each of the industries it supplies. It has earned a reputation for its flexible approach to manufacturing, which allows it to respond quickly to customers' requirements from prototype through to full production.

The company's certifications and approvals demonstrate its attention to

detail and levels of customer service. Artel Rubber Company products have been designed for both extreme heat conditions and cold and cooling conditions. Products for containing oil or keeping water at drinking quality are also available.

Artel Rubber Company – UK
www.artelrubber.co.uk

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sales@snstainless.com - www.snstainless.com



Indian steel processor

Good Luck Steel Tubes, established in 1986, is a steel processor, converting basic steel to quality engineering products used by end-customers such as automobile manufacturers, infrastructure, engineering industries, and oil and gas industries. The company's products and services have enabled it to register a strong presence more than 100 countries around the world.

Production capacity is 200,000+ tonnes per year, and products include CDW/DOM tubes, galvanised pipes, CR coils and sheets, square and rectangular pipes, forgings, fabricated steel structures, and transmission and telecom towers.

Good Luck Steel Tubes Ltd – India
www.goodlucksteel.com

Seamless carbon steel butt weld fittings



Unifit products

Unifit AS is a manufacturer and exporter of seamless carbon steel butt weld fittings in Turkey. The company's production and stock programme covers ½" to 24" (DN 15 to DN 600) elbows, tees, reducers, caps and flanges to EN and ASTM standards.

The company manufactures its Unifit branded products with state-of-the-art technology and experienced staff. Standard Euro-pallets are used during the delivery of goods. After establishing itself in its domestic market, the company extended its activities abroad, and currently exports to Europe, the Middle East and the USA.

Unifit operates on a 6,000m² closed area in Istanbul, near to highways and cargo ports, providing a logistical advantage.

Unifit AS – Turkey
info@unifit.com.tr
www.unifit.com.tr



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Pipe lasers for utility construction

Trimble has introduced the Spectra Precision® DG613 and DG813 pipe lasers, a new generation of Dialgrade® lasers for the installation of gravity flow pipelines.

The DG613 and DG813 are smaller in length than their predecessors, the DG511 and DG711. This shorter length is a benefit when setting up the units in

manholes with precast inverts and a tight radius. Both models have a grade range from -12 to +40 per cent and are fully self-levelling over the entire grade range. The cross axis is also fully compensated, providing quick set up and ensuring the laser will be level without having to manually rotate it in the invert. The new pipe lasers have a 150m (500ft) working range, providing a single setup

to lay pipe from one manhole to another. The new RC803 remote control provides full function control and utilises infrared communications when in the pipe at a distance of up to 150m (500ft). For 'over-the-top' setups, the remote uses radio communications at a distance of up to 130m (430ft).

Flexible power options for the pipe lasers provide 40 hours of operation with NiMH rechargeable batteries and 50 hours with alkaline batteries. Alkaline batteries can be used directly in the laser without a separate battery pack. To recharge the NiMH batteries, a vehicle outlet 12V charger is available. A large LCD allows users to easily view the display when the laser is in a manhole. All functions are controlled via a graphical, user-friendly menu. The same user interface is on the RC803 remote control.

Both models incorporate new features. To reduce costly rework, the Line Alert will cause the beam to blink to notify the operator that the setup has been disturbed. Using the Line Set function, the beam can be moved up to 100 per cent grade in a few seconds and then adjusted left or right to perform first day set in a short trench. Both models have a Line Scan function that allows the user to quickly align the beam to the pipe laying target's centre, which is placed in the last piece of pipe.

The DG813 has advanced features when used with the SF803 Spot Finder beam detector. The Spot Align feature will automatically align the DG813's beam to the centre of the Spot Finder. This alignment feature can be used for an accurate and quick setup, to orientate the beam towards the next manhole when used in a trench, through the pipe or when doing an over-the-top setup.

Spot Match is used for checking that the pipe has been installed to the correct grade or for finding the grade value of a pipeline. This can also be used to calculate the grade between manholes. SpotLok is used to lock the beam in a desired position for applications when the beam could be subject to environmentally caused drift, such as temperature changes in the pipe.

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Dual-function valves

Among zero-leakage valves for open/close function, triple eccentric butterfly valves are on the rise. This type of construction can provide advantages that include 100 per cent zero leakage, compactness, easy and frictionless functioning, and long maintenance-free operation.

For fixed limits, triple eccentric butterfly valves can be used for control and/or throttling applications. To extend the range and create an efficient high-performance control valve, Zwick and Yeary Controls developed the Tri-Shark triple offset butterfly valve.

In collaboration with Yeary Controls, Zwick developed the patented Sharktooth throttling trim cartridge, which is used to turn the triple offset butterfly valves into control valves. This revised design is claimed to be equal in control performance to a globe valve or rotary plug valve, while incorporating better shut-off capabilities. By combining the Sharktooth throttling trim cartridge with the Tri-Con triple offset butterfly valve series, Zwick created the Tri-Shark zero-leakage shut-off and control triple offset butterfly valve.

This control valve combines the benefits of a triple eccentric butterfly valve with the special qualities of a control valve, enabling just one style of valve to be used for both on-off and control

Sharktooth disc clearance



applications. The throttling trim cartridge is close to the pivoting motion of the valve's disc to keep the flow between disc and cartridge as low as possible. The cartridge is manufactured with multiple optimised slots that divide the flow and clear an exact calculated cross section while opening or closing the valve.

With the throttling trim cartridge, the valve's flow is changed to an equal percentage flow, which is a preferred inherent flow characteristic for many control applications. Tri-Shark's flow characteristic ensures that the valve is able to provide an effective control range at 5° to 30° of travel – the control area where traditional triple eccentric butterfly valves seem to reach their limits. Typical butterfly valves have good control limits between 30° and 70° of travel. Tri-Shark valves extend this range through the throttling trim cartridge.

Further advantages of Tri-Shark valves are anti-cavitation properties. The flow is divided through the slots and reduces cavitation, because the occurring steam bubbles in the cartridges slots' area reach a smaller dimension by the smaller flow rate of each channel. Therefore the occurring energy is less when the steam bubbles implode.

Especially at small opening angles, Tri-Shark valves are able to conduct water jets concentric to the pipeline's centre, converting kinetic energy to a smaller level in fluid prior to contacting the pipe wall. This can reduce the occurrence of damage, eg at the pipe wall.

As the mass flow is divided into smaller parts through Sharktooth's throttling slots the sound frequency rises, and the sound can be absorbed more easily through the pipeline because the frequency is in a region where human ears will notice it less.

Another important aspect of the throttling trim cartridge is that the dynamic torque is reduced by the changed pressure field. At critical opening angles and flow conditions with regards to the occurring dynamic torque, a smaller actuator with less torque can be used.

Tri-Shark can be supplied in different types. In addition to the standard lug-



Butt weld Tri-Shark

type design and Sharktooth (DN900), integrated versions such as double flange (DN200) and valves with butt weld ends (DN800, DN700 Trim) are available.

Zwick Armaturen GmbH – Germany
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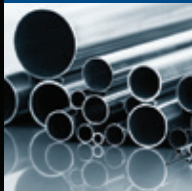
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Fuel, air and hydraulic lines



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Tailored tubes: Swiss quality in lightweight construction

Jansen AG, founded in Switzerland in 1923, develops, manufactures and supplies welded and drawn precision steel tubes and steel profile systems as well as plastic products for the construction sector and industrial applications. Since 1978, the company has also been the exclusive Swiss distribution partner of Schüco International KG, and sells the German company's aluminium and timber/metal profile systems for the construction industry.

The company has a broad product portfolio of precision and profile steel tubes for a wide range of applications. In two steel tube works in Switzerland and Germany, Jansen produces welded precision steel tubes for the automotive industry, among others, and develops

niche products together with technology partners who may be suppliers or customers. These products originate from complex process technologies and meet high material and process requirements.

Through its development of innovative material and process concepts, Jansen is proactive in lightweight technology. Thin-walled tubes at constant quality reduce material consumption to save weight.

In the sector of tailored tubes Jansen claims to be one of the few suppliers who can already produce in series.

Rolled or drawn tubes can be manufactured with constant outer diameters and variable wall thicknesses. The

optimised use of material leads to a specific reduction in weight. Tailored tubes are used in stabilisers, drive shafts and camshafts, structural parts, axles and instrument panel holders.

Jansen is capable of meeting stringent customer requirements and guaranteeing final component properties through specific know-how in the individual process steps of welding, annealing, drawing and adjusting.

Individual drawing processes permit the production of complex profile shapes as used in applications such as steering systems or dampers.

Jansen AG – Switzerland
info@jansen.com
www.jansen.com

Swedish manufacturer of high performance pipes

System Alvenius pipes are made from high-grade Swedish steel, and are designed to be stronger, thinner and lighter with low flow resistance. This results in easier handling, low energy consumption and a long service life.

The pipes are spiral-welded from pressure-vessel class high-strength

steel, enabling them to be made with a thin yet strong wall and, due to the spiral welding, to remain straight. Benefits include low weight and a larger inner diameter for a given outer diameter and working pressure.

Alvenius Industries is constantly improving its products to suit its

designated segments – tunnelling and mining, industry, fire protection, snowmaking, water and sewage, and special applications.

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Pipe blasting and coating systems



Selmers specialises in the manufacture of plants and equipment for internal and external pipe cleaning, pipe coating and pipe handling. Established in 1966, the company has grown into a supplier of comprehensive pipe coating systems, especially of tailor-made equipment for onshore and offshore pipe coating and pipe handling facilities.

All design and engineering work is done in-house, with short communication lines and optimum interfacing for individual equipment parts. This enables Selmers to produce reliable and efficient pipe coating plants.

The company's product range comprises an extensive external multi-layer and internal lining pipe coating plant programme, with abrasive blasting equipment, ovens, chromate and acid wash units, liquid and powder epoxy equipment and in-house made extruders.

Last year Selmers received the 2015 IPLOCA New Technologies Award, sponsored by BP, for its onshore automatic vacuum field joint blaster. This machine is part of the field joint blasting and coating equipment programme, used in the field for onshore pipelines.

Selmers also has an offshore programme aimed at pipe handling/firing line equipment for pipe lay vessels, field joint blasting and coating systems (S-lay and J-lay), PU foams, FBE and three-layer PE, as well as multi jointing facilities for pipe spoolbases with pipe rollers, line-up systems and pipe pushers.

The company offers concrete weight and cement mortar coating equipment, rebar powder coating lines, in-situ equipment, containerised configurations and quality control equipment. Its range also includes self-propelled coating removal and re-lining machines for in-situ pipeline rehabilitation purposes. Equipment is offered with full project support from first design, engineering, construction and manufacturing up to installation, commissioning and after-sales services.

Selmers – Netherlands
sales@selmers.com
www.selmers.com

Weld purge monitoring

The portable PurgEye® 200 weld purge monitor is designed to meet the needs of higher welding specifications requiring oxygen levels down to as low as 10 parts per million (ppm).

The handheld PurgEye 200 from Huntingdon Fusion Techniques (HFT) is totally waterproof and dustproof. It has warning icons on the large screen to show low battery and low sensor conditions, and also displays oxygen readings in percentage or in ppm very accurately down to 10 ppm.

Luke Keane, distributor support for HFT, said, "Weld purge monitors are an essential instrument to help obtain non-oxidised, zero-colour welds by monitoring the oxygen level when welding metals such as titanium and zirconium where high quality and high strength welds are required. The PurgEye 200 also finds a place with those making important zero-colour joints in stainless, duplex and chrome moly where a metallurgically pristine weld is produced with the help of high quality purging."

The PurgEye 200 contains an internal electro-mechanical pump for automatically drawing samples of purge



HFT's PurgEye 200

gas over the sensor before discharging it to the atmosphere. The lifetime sensor eliminates the need for changing cells every year or so, as is the case with wet cell instruments. Alarm signals can be given by the PurgEye 200 to show when the oxygen level is within or outside the required ppm range.

HFT has a range of PurgEye weld purge monitors to measure oxygen levels from atmospheric content (20.94%) down to 1 ppm (accurate to 10 ppm), at which point no discolouration in welds of any kind should occur. By striving for zero-colour welds, companies can eliminate the post-weld cleaning costs of oxidised welds.

Huntingdon Fusion Techniques – UK
hft@huntingdonfusion.com
www.huntingdonfusion.com

Scarfig technology

Saar-Hartmetall und Werkzeuge GmbH is dedicated to the techniques of scarfig longitudinally welded tubes.

Its staff have completely revised its range of products and have made important innovations in the design of the tooling as well as in the quality of the carbide inserts concerning geometry and carbide grades. The company's hydraulic inside scarfers now start from 19mm inside diameter, and mechanical tooling from 14mm ID.

Through its partnership with a coating centre, the company can also improve specific scarfig problems.

New products include short inside scarfig tow bars, a hydraulic power pack with pre-selected pressures and return button to accelerate the out-of-cut movement, and an impeder filtration and pressure station with easy handling.

Other products include blanks, tools, rolls and wear parts made of tungsten carbide, powder metallurgical alloys or steel.

Saar-Hartmetall und Werkzeuge GmbH – Germany
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No-dig technology reduces risk of lead in water

Specially developed 'no-dig' technology reduces the risk of lead dissolving into the water supply in older buildings and homes by restoring – rather than replacing – lead pipes, according to Pipe Restoration Services.

Up to 40 per cent of properties in the UK are supplied with water through lead service pipes – the main contributor of dissolved lead in drinking water. Houses and buildings built before 1970 are most likely to have lead pipes. The legal limit of lead in drinking water was reduced from 25 to 10 micrograms per litre in 2013. However, in some parts of the UK, the new standard is still not being met.

Lead is a cumulative poison, and children are particularly vulnerable as it affects both their physical and intellectual development. Traditional solutions such as phosphate dosing and the replacement of lead pipes have

proven costly and disruptive. Estimates put the cost of replacing all lead pipes in the UK at between £8bn and £10bn.

ePIPE technology from Pipe Restoration Services minimises disruption to existing plumbing and reduces the time involved. The ePIPE process uses a lining material with a short two-hour cure time, resulting in a quick return to normal service. Special adaptors for internal and external stop taps provide access to the ends of the pipe without the need to cut into it.

The ePIPE coating goes beyond legal lead limits after application and is claimed to be the first lining material and process of its kind to meet the stringent requirements of both the Water Regulatory Advisory Scheme (WRAS) and the Drinking Water Inspectorate (DWI) for use in all public water supplies.

Approval means the lining process can be used on any water company or privately owned water services and internal pipework to address lead contamination issues and repair leaks.

There is no lead in water when it leaves the water treatment works. However, lead can be picked up by the water if the service pipe is made of lead, or if internal lead pipework and lead-based soldered pipe joints are present. More than half of UK families with children under 16 live in homes built before 1970, according to research into drinking water habits. The majority (90 per cent) of those questioned said their children drank from the kitchen cold tap on a daily basis, yet 34 per cent were unaware what their pipes were made of.

Tony Hanks from Pipe Restoration Services commented, "The problem of lead in water has not gone away and the recommended solutions are too costly and disruptive. Our goal is to tackle the issue head on and go beyond lead compliance. We can offer property owners a longer term, more sustainable solution than either replacement or dosing alone can provide."

Pipe Restoration Services – UK
info@piperestorationservices.co.uk
www.piperestorationservices.co.uk

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Suraj Ltd, an ISO-9001, 14000 and BS OHS 18001 certified company, is a manufacturer and exporter of stainless steel seamless pipes, tubes and U-tubes in various sizes, specifications and grades. The company serves more than 70 countries around the world.

Sizes range from 6 to 323.9mm OD, in 0.8 to 25mm thicknesses. Pipes are available up to 12m in length; tubes up to 30m. Materials include all austenitic, ferritic, duplex and super duplex stainless steels, and manufacturing is carried out according to ASTM, ASME, EN, NFA and JIS standards.

Specialisations include heat exchangers, heating elements, surface condensers, evaporators, digestors, instrumentation

tubing and fluid piping, for application in refineries, petro-chemical, food, pharma, fertiliser, oil and gas, breweries, sugar and ship building.

Suraj also holds certificates for quality in accordance with AD2000 Merkblatt W0 and Pressure Equipment Directives 97/23/EC from TÜV Nord, and supplies products under all national and international third party inspection authorities. The company has its own laboratories for performing tests such as hydro test, eddy current, PMI, IGC, UT, RT, spectro analysis, and mechanical properties.

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While 2015 was a challenging time for companies in the steel industry and in particular within the oil and gas sector, Tube Developments was involved in a number of major projects.

The company successfully supplied the high yield tubulars for the tie-in spools on the Solan Project in the North Sea. The completion of the subsea storage tanks, topsides and jacket in 2014 was followed with the facilities being

installed in August and September of the same year. Once the project is up and running the initial production rate is expected to be 24,000 barrels of oil per day.

Tube Developments states that its reputation for quality, reliability and value has allowed it to establish itself in international markets covering Europe, Australia, USA, Africa, India, the Middle East and Asia. Thousands of tonnes of

carbon steel pipe and tubulars are held in covered warehouses at premises near Glasgow, UK. This allows the company to service the needs of customers quickly and efficiently, to dispatch pipes immediately to anywhere in the world without the lead times normally associated with steel mill deliveries.

Tube Developments Ltd – UK
info@tubedev.com
www.tubedev.com

Materials for increase in durability and reduction in energy use

Atlantic Heat Treating Ltd contacted Sandvik with concerns about the relatively short lifetime of existing SER radiant tubes in its gas-fired Sunbeam furnace, which were failing after around 18 months of service.

Sandvik provided replacement tubes manufactured using Kanthal APM extruded material that were sized to work with the existing burner design and to be a direct replacement for the previous stainless alloy tubes.

“The burners that are using the Kanthal APM tubes are the best I have ever seen,” said Jon Matthews, owner of Atlantic Heat Treating Ltd. “The tubes

for my SER burners in the Sunbeam furnace were ordered in January 2010 and installed in April of 2010, so we are looking at over five years’ steady operation, vs something like 18 months with the previous stainless steel tubes. I bought another furnace that is the same as the one we are running now. When we get it installed I will be looking to use the Kanthal APM tubes.”

The main benefits from the replacement with Kanthal APM tubes at Atlantic Heat Treating are durability and reduced maintenance. The tubes have been operating for more than five years with no issues with respect to surface corrosion or deformation of the tube

wall. Physical appearance of the tubes indicates a potential for additional years of service. Due to the extended lifetime, maintenance costs and furnace downtime have been significantly reduced. Additional benefit is realised through an increased throughput of the furnace.

Kanthal APM is an iron-chromium-aluminium (FeCrAl) powder metallurgical dispersion strengthened alloy used in a wide range of resistance and high-temperature applications. Kanthal APMT is an advanced powder metallurgical dispersion strengthened, ferritic iron-chromium-aluminium alloy (FeCrAlMo alloy). Both alloys are recommended for continuous use up to 1,250°C (2,280°F) in oxidising and reducing environments.

Kanthal APMT is a further development of Kanthal APM, designed for especially demanding applications.

The alloys form a protective and non-scaling Al_2O_3 surface oxide when exposed to high temperature, which gives good protection in most furnace and combustion environments, ie oxidising, sulphidising and carburising, as well as against attacks from deposits of coke and ash.

Sandvik Materials Technology – Sweden
www.kanthal.com



A photo taken by the customer shows the orientation and condition of the APM tubes that have been in operation in the furnace for more than five years with no signs of material degradation

Welded steel hollow sections and seamless steel pipes

Intercom Group Ltd is focused on the wholesale trade, import and re-export of ferrous metals and glass, and production of zinc-coated profiles and processing pipes in Bulgaria and other EU and CIS countries.

In 2015 the company gained ISO 14001, 18001 and EN 1090 certificates, certified by DNV GL. Obtaining ISO 14001:2004 demonstrates that the company is thinking about its environmental impact and putting in place systems that will not only benefit the environment but will also reduce costs and improve efficiency within the organisation.

OHSAS 18001:2004 certification concerns health and safety management systems.

By obtaining this certificate Intercom Group shows its willingness to develop and prove how important safety is.

EN 1090-1 shows the company's professionalism and quality in steel constructions.

Intercom Group has two main product categories: welded steel hollow sections and seamless steel pipes.

Megaprofil IG, part of the Intercom group, manufactures round, square and rectangular hollow sections. Established in 2006, the company uses the latest technologies and equipment for pipe production. Three pipe production lines cover the ranges Ø 10 to 28 mm, 13.4 to 40mm, and 38 to 127mm. Total monthly production capacity is greater than 3,000 tons of pipes and hollow sections.

Intercom Group also manufactures welded casing pipes. The main production facility in Varna, Bulgaria, has a total monthly production capacity of 200 tons.



Seamless pipes from Intercom Group

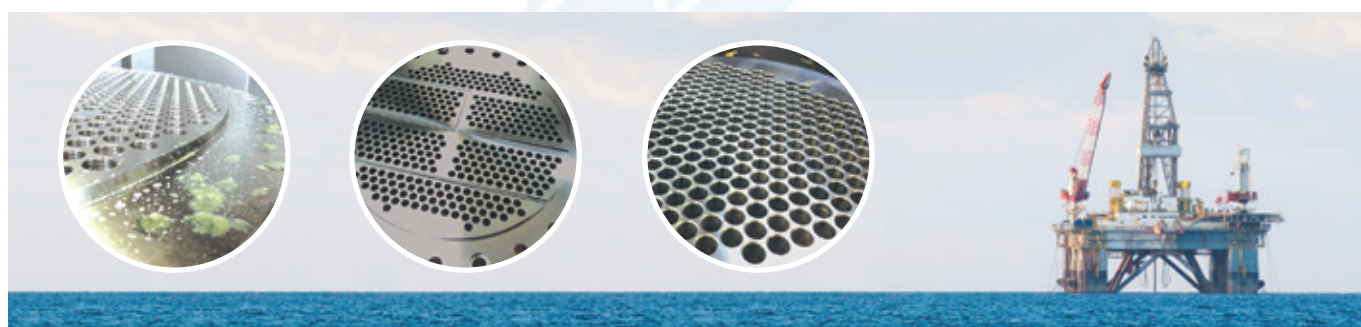
The manufactured pipes are Ø 280 to 4,000mm, with wall thickness of 4-16mm and maximum length of 12m. The production technology consists of cutting steel sheets, bending rolls, welding and assembly.

The casing pipes have a wide range of applications, including drainage, drilling sites, wastewater and rainwater installations, casing communication and infrastructure networks, and road and railway construction.

Intercom Group Ltd – Bulgaria
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Tube handling and logistics



Materials handling in a state-of-the-art tube making facility is streamlined to the point of leaving little room for improvement. The seamless assimilation of the handling process into the broader production cycle might provide the sole area for avoiding what economists call opportunity cost: the loss of the benefits of taking an alternative action.

A minute is always 60 seconds long, and minutes lost at the stage of reception and presentation of the feedstock are just as precious as those lost in less-than-efficient collection, bundling, packaging, and transport of the output. And just as irrecoverable. And just as damaging to productivity.

That is where logistics comes in – and where tube and pipe professionals excel. Opportunity cost is not in their outlook. Full-bore efficiency in materials handling is never out of it.

Multi-purpose lift truck with high-lift mast

Material handling company Crown has launched across Europe a new range of multi-purpose lift trucks. Capable of travelling at up to 12.5km/h and lifting 1,200kg to a height of 4.3m, the Crown MPC 3000 Series combines the benefits of an order picker with the advantages of a counterbalanced lift truck. The adaptability of the trucks in the new series makes them suitable for use in a wide variety of warehouse applications.

The MPC 3000 Series trucks are fitted with high-lift masts, making them suitable for order picking, put-away, long-distance transport, replenishment and sandwich stacking. A counterbalanced design means the trucks have no load arms, so they can work in close proximity to machinery, sandwich-stack four-way pallets, and manoeuvre in tight or congested areas.

The high-lift mast also enables the truck to respond swiftly to demand by replenishing low-level pick slots from high-level shelves or racks. This is an operation that would previously have required a separate reach truck or high-lifter.

Christoph Grüter, head of logistics at Roto Frank Bauelemente GmbH, where the lift trucks have been subjected to intensive on-site testing, said, "With a sturdy duplex mast capable of lifting loads to a full 4.3m plus a compact

design with no intrusive load arms, these trucks are working in our warehouse as versatile all-rounders. The MPC 3000's amazing agility and exceptionally high lift speeds have made a very positive impression."

The new multi-purpose lift truck combines its stable, high-lift mast design with cantilevered, adjustable ISO forks unhampered by load arms. This combination means that the truck is capable of lifting full-capacity loads (load centre: 600mm) to the full height of the mast. With nested I-beam mast construction and clear-view fork carriage and overhead guard, operators have an almost unobstructed field of vision forwards and upwards, so they can position forks and loads quickly, precisely and safely.

The truck automatically adjusts its cornering speed and acceleration according to the steer wheel angle, fork height and load weight. Together with responsive brakes and a suspended, shock-absorbing floorboard, operators have more confidence for safer operation.

The design also includes Crown features such as Access 123®, e-GEN® braking



Crown's MPC 3000 Series is suitable for a wide variety of warehouse applications

and electronic steering. Fleet managers can choose from a wide range of optional Work Assist™ accessories, enabling them to customise trucks for specific requirements.

The MPC 3000 Series is available with a non-telescopic mast (1,780mm lift height), a simplex mast (4,200mm) or a duplex mast (4,300mm).

Crown Equipment Corp – USA
www.crown.com

Efficient handling of long and bulky goods



bulmor Jumbo electric sideloader

Dynamically changing demands in the intralogistics market require ongoing, individualised solutions. In the field of sideloaders and multi-directional sideloaders, bulmor is a specialist in creating solutions for each individual customer.

bulmor is a partner for companies who are looking for efficient handling of long, heavy and large materials. The company has 40 years of knowledge of the truck industry, including brands such as Irion, Lancer, Jumbo, and Baumann multi-directional sideloaders. It produces multi-directional sideloaders with a lifting capacity of 15 tons, sideloaders with a lifting capacity from 4 to 20 tons, and electric sideloaders from 4 to 8 tons. The company constructs these individual machines at its Austrian headquarters.

bulmor industries GmbH – Austria
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System88 for pipe transport



Dhatec's System88 in use at Carl Polzin

For more than 23 years, Dhatec has been working on a research and development programme that keeps pipes in optimal condition during logistics of line pipes. Several solutions have emerged to improve safety of the logistic process.

Dhatec offers solutions to carry heavy pipe loads safely and damage-free around the world. System88 is a solution for single- and multi-layer pipe transport, for coated and non-coated pipes.

Carl Polzin Bremen bought System88 for several projects in the UK, USA and Canada. Commenting on the system, the company's management said, "Carl Polzin Bremen is using System88 to transport coated and uncoated pipes on trucks from the port of discharge to final destination (warehouse or storage yard) to serve various oil and gas projects. System88 is very convenient to set up and provides a safe and sustainable opportunity for pipe transport, as it can be adjusted to different diameters and reused frequently. There is also a lot of additional supply such as straps to fix it onto trailers."

The patented design of the adjustable transport system is claimed to eliminate the disadvantages of other support systems. System88 consists of a zinc-plated steel profile on which LDPE blocks can be positioned that are secured with safety pins. Due to the wedge-shaped blocks, pipes are supported sideways, and risks for ovality are reduced. Each pipe is blocked separately.

Finite element analysis shows almost four times less displacement and almost two times less stress compared to a situation where pipes are supported by a (wooden) beam.

Dhatec states that System88 has been implemented in the pipeline industry, and that thousands of trains and trucks have been equipped with the adjustable transport system. Because safe and efficient transport is ensured, System88 is increasingly being selected for large-scale projects.

Dhatec – Netherlands
info@dhatec.nl
www.dhatec.nl

Gantry-style material handling system for pipe ultrasonic tester

The energy industry consumes an enormous amount of tubular products.

Given the strict quality standards, new and used pipes must be thoroughly tested before being used in the field.

In the 'full body phased array ultrasonic' testing method, several testing attributes are performed at one time, requiring a handling system and integrated controls to effectively position and test a wide range of pipe sizes.

Haven Manufacturing has expanded its material handling and systems control knowledge into the oil and gas pipe testing market.

In cooperation with ultrasonic electronics producers, Haven has designed a gantry and rail system that will support a full body phased array ultrasonic system.

The capacity of this system is from 2.5" to 20" diameter, and up to 48ft length.

The sequence of operation begins with measuring the length of each pipe, to determine the end-of-pipe location.

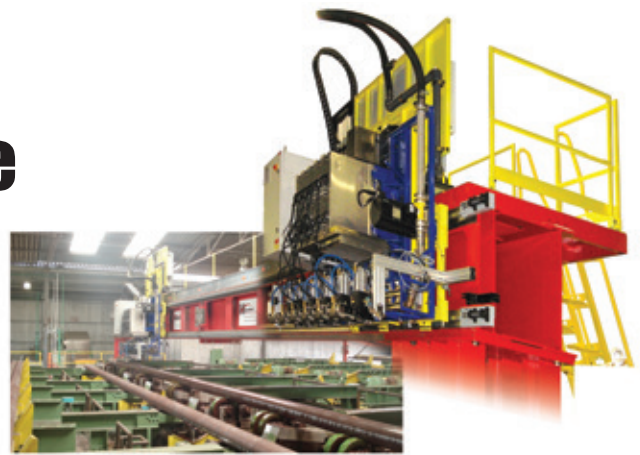
A walking beam transfer device then positions the pipe in the test station, while simultaneously removing a tested pipe to an exit table or conveyor.

In the testing station, the pipe is rotated at a controlled rpm to match the specified linear speed of the ultrasonic tester carriage.

The combination of rotation and carriage linear speed creates the desired test helix pattern for a given pipe diameter and wall thickness.

Multiple servo drives control the synchronisation of the test cycle. Manipulating up to 24,000lb of pipe at one time requires both precision and robust construction.

Haven Manufacturing – USA
www.havencut.com



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Contract for two 500-tonne under-rollers

Sparrows Group, and its cable and pipe-lay solutions (CPLS) division, reinforced its footprint in the USA after being awarded a contract by Oceaneering International, Inc, a global provider of engineered services and products to the offshore oil and gas industry, to design and manufacture two 500-tonne powered and jack-able under-rollers.

The new under-roller system, through its versatility and mobility, offers a wide range of benefits. Suitable for use with reels of up to 11.4m outer diameter, it provides up to ten tonnes of line pull at the outer reel diameter, which is particularly beneficial for steel-tubed umbilicals – a more rigid product that requires greater effort to spool around the reel.

Key to Sparrows Group securing the contract was the company's in-house

engineering expertise and facilities in Aberdeen, UK, where the under-rollers are to be designed and manufactured before undergoing testing. The under-rollers will then be delivered to Oceaneering in Panama City, Florida, USA, where Sparrows Group will perform the assembly and site acceptance testing. Local after-care support for the under-rollers will be supplied by Sparrows Group's service centre in Slidell, Louisiana, where the company has a number of specialist technicians with the capability to maintain and repair this type of equipment.

Sparrows Group CEO Stewart Mitchell commented, "This contract award marks a significant milestone for Sparrows Group in that not only are the under-rollers believed to be the first of the design and capacity in the marketplace but it underlines the



Sparrows Group's under-roller is believed to be the first of its design and capacity

added value we bring through our integrated services, responsiveness and after-care support."

The complete under-roller unit, when attached to a set of cradles, can be lifted via four lifting points. With packing structures for differing reel diameters the system can be used for different reel cradles. This enables the unit to be versatile in terms of the reel dimensions it can be used with.

Sparrows Group – UK
www.sparrowsgroup.com

Oceaneering International, Inc – USA
www.oceaneering.com



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Tube and pipe manufacturers, committed to realising maximum productivity from existing plant and equipment while actively weighing the benefits of upgrading, are well acquainted with this double perspective.

The most renowned names in the industry worldwide are there in force. But some names will be encountered for the first time. The organiser's experience suggests that by the time the next edition of Tube is in preparation many of these companies will have joined the A-list.

Those heading for Düsseldorf for Tube 2016 will meet old friends and make new ones. They will strengthen their command of current industry practice and explore tomorrow's methods today.



Photos courtesy of Messe Düsseldorf GmbH

www.tube.de

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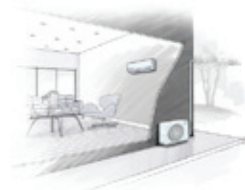
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Wilhelm Geldbach Industrie GmbH	01 C39	Zhangjiagang Sheng Ding Yuan Pipe Making Co, Ltd	02 C04-06
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WIWA Wilhelm Wagner GmbH & Co KG	06 J46	Zhejiang Longda Stainless Steel Co, Ltd	02 E02-09
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Wuppermann Polska sp zoo.....	03 B30	Zhengzhou Wanda Heavy Industry Co, Ltd	01 D21
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Xiamen Casey Import & Export Co, Ltd	02 C30-09	Zwahlen & Mayr SA ZM Tubes	03 E55
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MATERIALS :

STAINLESS STEEL : ASTM A182(F304L, F316L, F304H/F316H, F317L, F321H, F44, F51, F53, F60)
CARBON/LOW TEMPERATURE CARBON STEEL : ASTM A105, ASTM A350 LF2
ALLOY STEEL : ASTM A182(F5, F9, F11, F22, F91)

PRESSURE RATINGS :

FITTINGS : 2000, 3000, 6000 & 9000 lbs
FLANGES : 150, 300, 600, 900, 1500, 2500 lbs

APPROVAL CERTIFICATES :

TUV/Rheinland ISO 9001 Registered Manufacturer, LR, CR, & ABS Register of Shipping, PED(CE)



BOTH-WELL STEEL FITTINGS CO., LTD.

NO.303 Rensin Road, Renwu District, Kaohsiung City, TAIWAN.(81460)

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Web Site : www.bothwell.com.tw

In-line measurement



Solutions for in-line measurement and control of tubes, pipes and profiles will be the focus of Zumbach's exhibition stand, including the Profilemaster® and Steelmater in-line measurement solutions for dimensions and shape.

Makers of seamless pipe, tube, profiles and bars now have access to Zumbach gauges, which have been enhanced to offer more significant advantages.

New Profilemaster models SPS 200, 400 and 800 complete the line of hot and

cold in-process gauges for rounds up to diameter 600mm (23.62") or profiles of up to 550mm (21.65") edge lengths. Profilemaster gauges are based on the principle of light-section technology and machine vision, and can handle any shape or profile.

Relevant dimensions can be entered into the program and are then monitored during the production run at all times. Typical applications are hot seamless pipe and profiles of any kind, cold rolled/welded tubes and pipes (ERW)

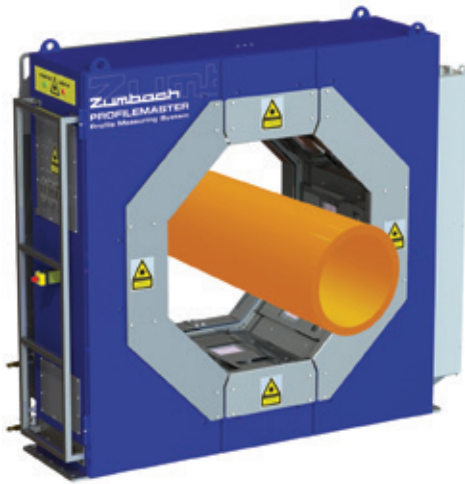
and inspection stations for tube, pipe, profiles and bar.

Profilemaster systems are available in multiple designs, depending on the requirements of the customer and product. The systems are best suited to the continuous measurement and monitoring of dimensions and the complete cross-section of profiles made of steel, metal, plastics or rubber.

The new series of Steelmater hot and cold gauges, based on high-speed laser scanning, now offers up to 12,000 measurements per second, with new calibrated single scan (CSS) technology. This results in a highly accurate and fast non-contact measurement of diameter, ovality and width/height at production speeds of 100m/s (19,685 ft/min).

Steelmater gauges are available in static (SMS models), oscillating (SMO models) or rotating (SMR models) configurations, for diameters of up to 500mm (20") or beyond, upon request.

Zumbach Electronic AG – Switzerland
sales@zumbach.ch
www.zumbach.com



(from left) Profilemaster SPS 800-S8, Profilemaster SPS 140-N4 and Steelmater SMR gauges



Hot finished structural steel

Tata Steel is a steel producer with manufacturing plants across Europe. The company manufactures and supplies a comprehensive range of steel tube products for some of the most demanding markets, including construction, automotive, lifting and excavating, and energy.

The company's Celsius® 420 range represents its advances in steel manufacturing and is the next-generation in hot finished structural steel. Developed in conjunction with customers in the construction, off-highway and agricultural equipment sectors, Celsius 420 is suitable for use in applications where structural performance at minimum weight is required.

The Install®, Inline™ and Inflow™ family of hot-finished, multi-certified

conveyance products provides uniform, stress-free tubes, with consistent mechanical properties and additional features and benefits for a range of building and industrial pressure pipe applications.

Specifically developed to meet customer and market demands, the hot-finished tubes can be considered an alternative to comparable hot-finished seamless products.

Building information modelling (BIM) is becoming increasingly important in the construction industry. As a result, Tata Steel has developed a BIM database for its tube products.

The user-friendly database allows flexible access to all product data from Tata Steel, improving the flow of

information throughout the life cycle of a project.

For global oil and gas customers who operate in challenging environments around the world, Tata Steel manufactures high frequency induction (HFI) and submerged arc welded (SAW) line pipe, where product reliability and integrity are integral to delivering project success.

In the automotive sector the company's advanced steels engineered in tubular form are supplied with specialist technical support to enable the creation of headrests, twist-beams, chassis structures, instrument panel beams and other essential automotive components.

Tata Steel – UK
feedback@tatasteel.com
www.tatasteeleurope.com



Large-diameter pipes supplier with coating expertise

In order to meet the challenging requirements of the oil and gas pipeline market, Europipe operates a fine-tuned value chain, from molten metal to the final coated pipe, delivered on time and on specification, anywhere in the world.

The company has its head office in Germany, and manufacturing plants in Germany, France and the USA (Berg Steel Pipe Corp and Berg Spiral Pipe Corp). Annually, 4,600km (2mn tonnes) of large-diameter pipes can be produced in the company's three pipe mills.

Europipe has supplied pipes and services for complex and technically challenging projects. Large parts of the Eurasian and North American long-distance oil and gas pipeline infrastructure consists of pipes made by the company, and its steel pipes are also found in offshore wind constructions.

The range of products comprises pipes with the following dimensions:

longitudinal seam-welded pipes with outside diameters of 610 to 1,524mm (24" to 60") and wall thicknesses from 7 to 45mm (0.281" to 1.772"); and spiral seam-welded pipes with outside diameters of 610 to 1,422mm (24" to 56") and wall thicknesses from 5.5 to 20mm (0.219" to 0.812").

Pipes are delivered in lengths of up to 18.3m (60ft) single joints, or 24m (80ft) single joint HSAW or double-jointed LSAW.

Coating experts at subsidiary Mülheim Pipecoatings GmbH, Germany, together with colleagues in the USA, have decades of experience in the application of pipe coatings such as polyethylene (PE) and polypropylene (PP), as well as

fusion-bonded epoxy (FBE) for outside insulation and liquid epoxy for internal lining.

On demand the company can supply inductive bend pipes, crack and buckle arrestors, heavy weight coatings and anodes.

Europipe GmbH –
Germany
europipe@europipe.com
www.europipe.com



Large diameter pipe supplier

Developing and distributing a wider range of steels

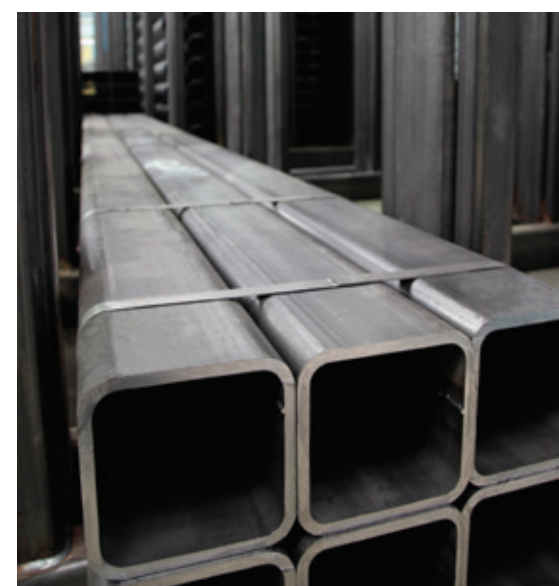
Marcegaglia, an Italian steel processing corporation with an output of 5mn tonnes per year and production plants on three continents, has completed a major internal restructuring and reorganisation of its steel operations, aiming for strengthening and 'industry-leading growth'.

Chairman and CEO Antonio Marcegaglia commented, "With the aim of greater transparency and clarity, we have completed the split-off of our non-core equity holdings (tourism, white goods components, building) from our core business, steel processing, which we aim to focus on and strengthen."

In more than 50 years in business,

Marcegaglia has created a production mix strictly linked to the structure and organisation of the entire group, ranging from the processing of carbon and stainless steel tubes and flat products, to products for the building and construction industry (with the production of insulated panels and crash barriers, for example), and in electromechanical components, composites, energy and DIY sectors.

The reorganisation has led to a regrouping of Marcegaglia's three main businesses – Carbon Steel (tubes and flat products), Specialties (stainless and drawn steels) and Plates (heavy plate manufacture) – into separate companies owned by holding corporation Marcegaglia Steel.



Marcegaglia carbon steel tubes

Marcegaglia – Italy
info@marcegaglia.com
www.marcegaglia.com



Preventing pipe damage during logistics

Dhatec specialises in developing and manufacturing products that protect pipes from damage during all logistics. The organisation shows pipe companies how they can guarantee safe, efficient and damage-free delivery of pipes through the entire supply chain.

The company claims its products and technical support improve the quality, efficiency and safety of the processes, assisting project managers in organising the logistics of pipeline projects.

Existing products are continuously customised to comply with the latest demands and specifications, including

special sizes and extreme conditions. Dhatec also offers rental and recycling possibilities of its products to stimulate sustainability.

Dhatec offers more than 3,000 solutions in the following categories:

- Pipe coating products for closure of pipes during blasting and temporary coupling during coating
- Pipe preservation – pipe closure in combination with bevel protection, anti-corrosion products and stack covers to protect pipes against damage and contamination
- Pipe handling – easy and efficient pipe handling and movement can be

achieved with a range of pipe hooks and pipe rollers

- Products for safe pipe transport, to transport a range of pipe diameters at the same time, on truck or train
- Pipe storage – safe storage of line pipes can be facilitated by using Dhatec storage systems
- Pipe construction – for construction onshore, offshore and spool bases Dhatec offers products such as stalk joining clamps and masking rings

Dhatec – The Netherlands
info@dhatec.nl
www.dhatec.nl



Composite tubes with powerful bonding

Hoesch Schwerter Profile GmbH develops its products in collaboration with specific fields of industry and customers. Modern power stations and industrial plants are just two areas where special steel solutions are used that are required to withstand the most extreme loads.

The classic seamless steel tube for pressure vessels is a key construction element in the building of thermal plants. The requirements for boiler construction steels become significantly more exacting if – instead of conventional boiler fuels such as coal, oil or gas – other sources of energy are used that result in strongly corrosive combustion products. For instance, boiler tubes in a waste incineration plant are not only exposed to thermal loads, but are also

subject to corrosive attack, triggered by the chemical element chlorine.

For this specific application, the conventional boiler tube used in plant construction with its proven component strength was equipped with a ‘coating’ using a corrosion-resistant austenitic material. The intention behind this combination of materials is to allow the carbon steel to handle the thermal-mechanical load on the tube, while the austenite provides protection against corrosion from the prevailing environment.

‘Combined materials’ tubing of this kind is often referred to as composite. It is produced using the extrusion process, the term used to describe this is co-extruded tubing.

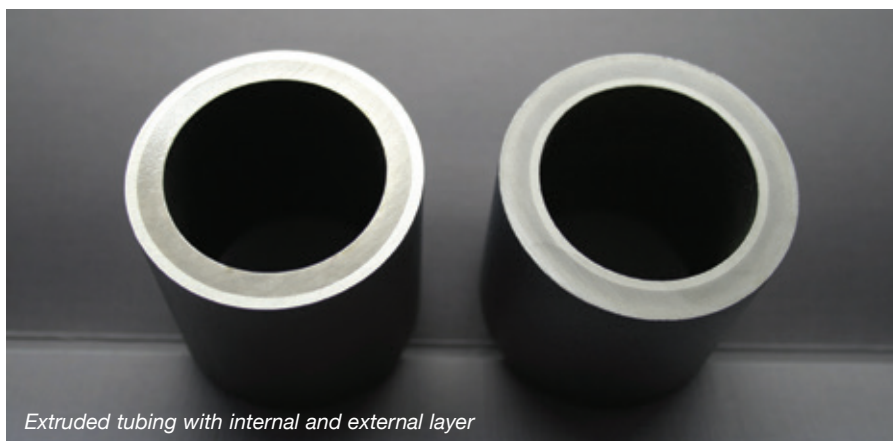
The high temperature structure steel and high alloy layer are formed simultaneously during the hot extrusion process at temperatures from 1,150°C to 1,250°C.

The development of composite tubing pursued by Hoesch Schwerter Profile was undertaken with the aim of overcoming the known disadvantages of clad pipes.

The carbon steel component and austenitic layer of the extrusion billet are manufactured in a common hot forming process at around 1,150°C to 1,250°C. The metallurgical connection between the two materials is achieved in the solid state using pressure-accelerated solid state diffusion. A diffusion zone approximately 10µm thick forms between the materials, which is responsible for a high-strength, oxide-free metallurgical bond of materials.

The fine microstructure configuration of the layer and base material is preserved, with no variation in the alloy concentration. Smooth surface structures avoid deposition of corrosion-promoting ash and salt particles from the flue gas.

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



Extruded tubing with internal and external layer

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ORGANISER

CEU-CENTRO ESPOSIZIONI UCIMU SPA

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LAMIERA c/o CEU-CENTRO ESPOSIZIONI UCIMU SPA
viale Fulvio Testi 128, 20092 Cinisello Balsamo MI (Italy)
tel +39 0226 255 225/227, fax +39 0226 255 890
lamiera.vista@ucimu.it

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Nickel alloy piping materials

Hart bv is a specialised stockholder of nickel alloy piping materials, and acts as a master distributor for suppliers in the oil and gas and (petro-) chemical, offshore and related industries. Seamless pipe and fittings in alloy 200/201, 400, 600, 625 and 825 are stocked, up to and including 8" in a wide variety of



wall thicknesses. For shutdowns and maintenance jobs, the company uses its extensive stock, and can supply within 24 hours from its warehouse in the Netherlands, if required.

The company also offers total project management for any project requiring a package of nickel alloys, often as an addition to customers' carbon steel and stainless steel packages. Materials are supplied in accordance with customer specifications, all around the world. In-house services provided by Hart bv include cutting to size, additional testing and 100 per cent PMI.

Hart is ISO 9001 certified, as well as being certified to remark and certify in accordance with PED guidelines. It carries out 100 per cent in-house PMI checks on incoming goods, and has a stringent supplier selection procedure.

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



Carbon steel tube export from India to Italy



Heavy Metal & Tubes Ltd (HMTL) recently exported SA179 carbon steel tubes of 27.5m in length to an Italian OEM. This is the longest straight tube cargo that the company has exported.

The company has the capability to manufacture tubes up to 31m in length (in stainless steel, carbon steel and alloy steel), but these are mostly supplied in U-bent condition.

This was the first job where HMTL had supplied 27.5m-long tubes in straight condition.

Heavy Metal & Tubes Ltd – India
info@heavytubes.com
www.heavytubes.com



Adamus 
metalforming

www.adamus.pl

Well established producer of steel products

OFFERS:

- High Frequency Welded – Induction steel pipes (HFI/HFW)
 - dimension: 114,3 - 323,9 mm (from 4 to 12 inches)
 - wall thickness: from 3,0 to 12,7 mm
 - lengths: from 6 to 18 m
 - steel grades: up to X80 (L555)
 - production standards: EN 10208, EN 10217, EN 10219, EN 10224, ISO 3183 - API 5L
- Cold formed hollow sections
 - square sections: from 70x70 to 140x140 mm
 - rectangular sections: from 80x50 to 160x120 mm
 - wall thickness: from 3,0 to 6,0 mm
 - lengths: from 6 to 12m
 - production standard: PN-EN 10219
- Steel mine roof supports
- Accessories for mine roof supports
- Steel roadway supports
- Construction sections:
 - channels
 - I-sections
- Slitting sheet metal in coils
 - sheet/strip thickness: from 3,0 to 12,7 mm
 - outer diameter: from 800 to 2100 mm
 - coil width: from 500 to 2100 mm
 - strip width: from 100 to 2100mm
 - max coil weight: up to 36 tonnes

HUTA ŁABĘDY S.A.

ul. Zawadzkiego 45, 44-109 Gliwice
tel. +48 (32) 234 72 01 fax +48 (32) 234 21 41
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Online ordering from stainless steel distributor

Since its foundation in 2003, Dacapo Stainless has grown into a significant distributor group within the European stainless steel market. The company serves customers in its European home markets and in more than 45 countries worldwide.

Customers are typically medium and large companies in Europe, predominantly engaged in the food, dairy, chemical, pharmaceutical and other process industries. In addition to a wide

programme of stainless steel, Dacapo provides various services, including a 24/7 web shop, EDI solutions, quality control, various approvals and container solutions. The company only buys stainless steel from leading producers who work to rigorous quality standards. All seven Dacapo locations in five countries are ISO 9001:2008 certified.

The company's web shop has more than 10,000 items and 6,000 dimensionally stable 3D models of BSP, food and dairy,

welding fittings, flanges and valves. The 3D models can be downloaded in the file formats Step, Inventor and IGES.

The web shop is fully integrated with Dacapo's ERP system, and all purchase orders received are reviewed by sales teams prior to being released to the warehouses.

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



Long and flat rolled steel products

All Steels Trading operates as a bulk trader of a wide range of both long and flat rolled steel products, and combines this service with a large offering of dockside stock for immediate supply from order. The company is also able to source and supply niche market products, including special shapes, high yield steels for the offshore industry, and micro alloy grades for hot forging/pressing such as boron steel.

From its dedicated portside warehouses at Groveport on the east coast of England, the business is ideally positioned for road trailer deliveries to the UK and mainland Europe. More distant locations around the world can also be serviced through the use of 20ft and 40ft containers.

The company's steel is only sourced from mills that have the appropriate accredited certifications, and all material is thoroughly inspected at the time each vessel is discharged and again at the point it makes its final journey to the customer.

The All Steels Trading teams has first-hand knowledge of steel manufacturing and re-rolling, enabling the company to quickly develop high-volume niche market products with its chosen mill partners.

Special Steel Sections Ltd, All Steels Trading's sister manufacturing company, will also be exhibiting. The company is a hot re-roller of special steel sections and profiles, and the mill has a production

capacity in the region of 10,000 tonnes per year.

Using a combination of automated production and manual hand rolling, the company has established a niche in the marketplace whereby it can produce small batches of special sizes in an efficient manner, in contrast to fully automated, continuous rolling mills that are designed for high-volume production runs.

All Steels Trading Ltd – UK
sales@allsteelstrading.co.uk
www.allsteelstrading.co.uk



Special Steel Sections Ltd – UK
sales@specialsteelsections.com
www.specialsteelsections.com



Long products from Belarus

OJSC Byelorussian Steel Works produces long products, wire and pipe products of carbon and alloyed steel grades.

The plant has numerous certificates for conformity of the quality management system: ISO 9001:2008, STB ISO 9001:2009, ISO/TS 16949:2009, BS EN ISO 9001:2008, ISO/TS 29001 and API Spec Q1, and the environmental system is certified for the requirements of ISO 14001:2004.

In 2015 the company started up a new rolling mill that produces wire rod (5.5 to 22mm diameter, 1,800 to 2,500kg coil weight), round bars in coils (20 to 50mm diameter, 1,800 to 2,500kg coil weight), and round bars in straight lengths (20 to 80mm diameter, 6 to 12m length).

OJSC Byelorussian Steel Works – Belarus
secr.um@bmz.gomel.by
www.belsteel.com



Special stainless steels

PJSC Dneprospetsstal (DSS) is a manufacturer of special stainless steels in the CIS market. The company develops, manufactures and sells metal products of stainless, tool, high-speed (including those produced by the PM method), bearing, structural, alloyed and carbon steel grades.

The technologies applied at DSS enable the company to produce high-quality materials used in a variety of industries, including engineering, shipbuilding, automotive, aerospace, power generation, oil and gas, and heavy equipment manufacturing. Its metal is used to produce parts for vehicles and machinery, seamless tubes and bearings, and tools for further processing of metals and alloys.

The products of Dneprospetsstal are said to be in demand in more than 60 countries, and the company is expanding its presence in the CIS, Europe, America and Asia, working with partners and distributors in 15 countries.

Products conform to the requirements of national and international standards



including GOST (CIS), ASTM, AISI (USA), EN (EU), DIN (Germany), BS (Great Britain), AFNOR (France) and JIS (Japan). The company has also developed its own technical delivery terms, which are harmonised with the above-mentioned standards for manufacturing stainless, bearing, tool and structural steels.

Dneprospetsstal manufactures more than 800 steel grades of 1,200 section sizes. The company is constantly developing its industrial facilities and new technologies, and installing advanced equipment.

PJSC Dneprospetsstal – Ukraine
info@dss.com.ua
www.dss-ua.com

Dniprospezstahl GmbH – Germany
info@dss-gmbh.net
www.dss-gmbh.net



PE-X and metal plastic multi-layer pipes

Hewing GmbH manufactures special layer pipe with an inner layer of PE-Xc and an outer stainless steel layer.

PE-X pipes and aluminium multi-layer pipes developed by Hewing are mainly applied for surface temperature regulation, radiator connection and tap water installation. Hewing products fulfil requirements for these application fields and allow fast and proper installation. In the test engineering department they are tested for all kinds of application fields, simulating long-term installation situations.

Hewing GmbH – Germany
info@hewing.com
www.hewing.com



Tubes, sections and seamless steel pipes

Three companies from the voestalpine group will be exhibiting together at Tube Düsseldorf.

voestalpine Krems produces cold-rolled tubes and sections. Profiling systems are employed at the Krems site to process varied grades of strip steel into profiled tubes and sections with many different cross-sections.


voestalpine Rotec is a group of companies specialised in the production, further processing and sale of precision steel tube products. Its focus is on the automotive industry, as well as on the mechanical engineering and hydraulic/pneumatic segments. voestalpine Rotec supports customers with the

development of product and production solutions, and logistic concepts.

voestalpine Tubulars produces seamless steel pipes. These are used as mechanical tubes, boiler and heat exchanger tubes, line pipe and for the drilling and completion of both conventional and unconventional oil and gas wells, available in API or proprietary grades, with API or premium thread connections – VAGT®, VASuperior® and VAroughneck®.

voestalpine AG – Austria
marketing.krems@voestalpine.com
office.rotect@voestalpine.com
sales@vatubulars.com
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Environmentally safe chlorinated compounds for metal forming



Since 1937, Hangsterfer's has been committed to making high quality metalworking lubricants. The company states that it prides itself on developing products that meet the highest health, safety and environmental standards. As the industry is faced with increasing chemical-use regulations, this philosophy is more important than ever.

According to research manager Nicolette Jones, the widespread use of chlorinated paraffins has recently come under intense scrutiny. The US Environmental Protection Agency

has issued new regulations that will eliminate the use of medium and long chain chlorinated paraffins from the manufacturing industry by 2017. The European Chemicals Agency has begun testing these substances and is likely to issue a similar ban. The safer very long chlorinated paraffins (vLCCP) will continue to be accepted.

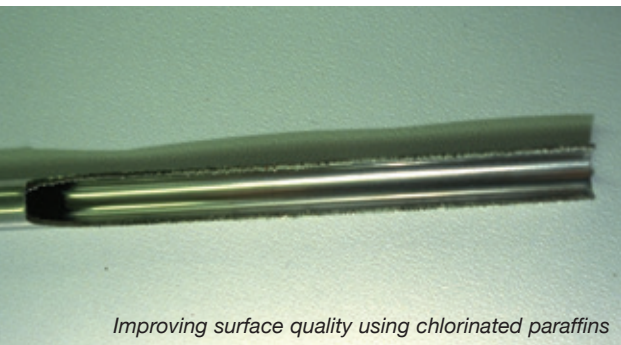
Chlorinated paraffins have been used for decades in the metalworking fluids industry. They are classified as short chain (SCCP), medium chain (MCCP), long chain (LCCP), and the newest classification, very long chain (vLCCP). vLCCPs must be C21 or greater. The shorter the chain length, the less viscous the substance is. However, the shorter the chain length, the more hazardous it is for the environment. SCCPs have been banned for years, and now MCCPs and LCCPs are being banned based on three factors: whether they are persistent, toxic or bio-accumulative. There is some

evidence that vLCCPs are persistent in the environment but not toxic or bio-accumulative. However, chlorinated paraffins below C21 have been shown to be persistent, bio-accumulative and toxic.

The reason that many companies have not embraced the use of vLCCPs is that they are the hardest to work with. While the shorter chain lengths are more liquid, vLCCPs are very thick and waxy, making them difficult for most companies to develop and store without making massive technological and equipment changes.

Using vLCCPs has a variety of benefits. They improve surface quality and extend tool life. Additionally, they are long lasting and reliable. Replacing medium and long chain chlorinated paraffins with vLCCPs also reduces negative environmental impact.

Hangsterfer's Laboratories, Inc – USA
www.hangsterfers.com



Improving surface quality using chlorinated paraffins

Metal pipe finishing



Copier Bevelmachines is a manufacturer and engineer of metal pipe finishing machinery based in the Netherlands.

The company mainly focuses on shipyards, offshore, pipe shops, pipe mills and construction of pipelines. Its machines have been sold all over the world since 1997, when Copier started with manufacturing stationary pipe bevel machines.

The company offers stationary pipe bevel machines in models for OD 3", 8", 16", 24", 30", 48" and 56".

Manual, automatic and CNC-controlled machines are available, and around 40 per cent of the bevel machines that are manufactured are partly or fully custom made.

With experience in offering CNC-controlled pipe beveling machines, Copier can now also offer CNC-controlled pipe cut and bevel machines.

These have a length measuring system to cut the pipe at the correct length. The heavy-duty Beaver S-series stationary pipe bevel machine was first sold in 1997. Little maintenance is required on these machines. Copier manufactures machines that are durable. For example, the Beaver 16S machine has a total weight of 2,350kg.

Another range of products offered by Copier are tube bending machines, available for stationary or portable use. The portable versions are cold bending machines for tubes up to 1½". The stationary tube bending machines are available in different models up to 4".



Beaver 16S stationary pipe bevel machine for OD 2" to 16"

Copier Bevelmachines – Netherlands
sales@bevelmachines.com
www.bevelmachines.com

Choosing the right coating

There are many different coatings to choose from when it comes to coating metal tubular items. The buyer can choose liquid paints, tape-wrap, sacrificial coatings, epoxy coatings or powder coatings.



Plascoat's polyolefin coating powders are used in the oil and gas, water and street furniture markets

The powder coating market comprises thermoset and thermoplastic powders, with the former product group often referred to as simply powder coatings. Thermoplastic coating powders melt onto the metal under the influence of heat and then solidify into a coating. No reaction takes place and they contain no reactive ingredients.

Choosing the most appropriate coating is dependent on the environment the products will be exposed to. If they will be exposed to water, acids in soil, UV light, impacts, abrasion, chemical attack, physical flexing, temperature extremes or graffiti, polyolefin (thermoplastic) coatings can be considered.

Thermoplastics are flexible yet tough. They generally cannot chip or crack, and adhere to the metal well. Polyolefin thermoplastics in particular adhere very well to metal without the need for a primer. They contain no plasticisers, BPA or TGIC and nothing can leach into the environment or soil.

Polyolefin coatings are typically supplied in powder form and can be easily applied to tubular products

by electrostatic spray, flock spray or fluidised bed dipping methods.

They are of benefit to manufacturers or coaters because primers and chemical curing are not required; they will not chip, crack or flake; and no hazardous fumes are generated on application.

The end customer has the reassurance that coated assets will last for decades with little to no maintenance costs, and with no future environmental liability. They are resistant to UV, wind blown sand abrasion and sub zero temperatures, and can withstand the rigours of urban life such as graffiti.

Plascoat states that its polyolefin coating powders are becoming increasingly specified in the oil and gas, water and street furniture markets, and are already widely used to coat tubular products in Europe, Asia, Australia, and South and North America.

Plascoat Systems Ltd – UK
sales@plascoat.com
www.plascoat.com



Steel products global distributor

The Buhlmann Group is a globally operating distributor specialising in steel pipes and tubes, pipe fittings and accessories, with a warehouse capacity of around 65,000 tonnes.

Products are compliant with common specifications and grades, and customers include companies operating in the energy, petrochemical, chemical, oil and gas, offshore, pipeline and plant engineering fields in particular,

as well as shipbuilding and mechanical engineering. The Buhlmann Group has wide-ranging consulting, project management and logistics expertise, and also provides single-source, full-service solutions, with a presence in 17 countries.

Buhlmann Rohr-Fittings-Stahlhandel GmbH + Co KG – Germany
bremen@buhlmann-group.com
www.buhlmann-group.com



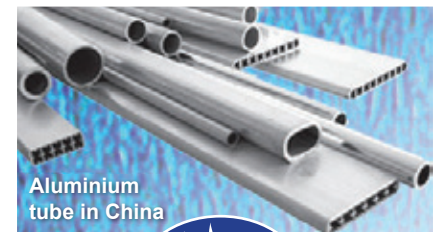
Welded precision steel tubes



Delmas is a specialist producer of very small diameter welded precision steel tubes, mainly focused on the 3 to 12mm outside diameter range. The company offers three types of tube that are 100 per cent produced with renewable energy.

Premium Delmas tubes are bright and externally precise welded steel tubes. Optim Delmas tubes are tailored tubes to suit the customer's specific needs – precision calibrated welded steel tubes with bright surface finish, minimised welding bead height, and a guaranteed inner working diameter. Precise Delmas tubes are cold drawn welded precision steel tubes for demanding applications.

Tubos de Precisión Delmàs SL – Spain
www.delmas-tubes.com



Aluminium tube in China



Aluminium precision tube made in China
Cold drawn seamless tube
Cold drawn coil tube
For
Seawater desalination device
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Wuxi, Jiangsu Province, 214121, China
Tel: +86 510 85069506
Fax: +86 510 85061423
E-mail: sales@hatal.com.cn

www.hatal.com.cn

Coupling technology

Stand no.
1C10

Straub specialises in the development of pipe connections and repair products. The company claims to be flexible and robust in aligning itself to changes in the market place, which can happen almost overnight. With a network of business partners the company, which belongs to the Aliaxis group in Belgium, is active worldwide.

The technical benefits of using pipe couplings include a flexible and stress-free connection that also compensates tolerances of pipe ODs.

The couplings dampen structure-borne noise and vibrations and compensate for thermal expansion. The coupling seals work progressively, ie the contact

pressure of the sealing lip increases with increasing internal pressure.

With quick and easy installation, the pipe ends need no preparation. As there is no welding or adhesive use, neither fire or explosion protection measures have to be taken. Various types of coupling are available to meet the demands of different industries and installation conditions: axial restraint and flexible, one-part, two-part or foldable, as well as couplings for connecting different pipe materials, such as HDPE.

If secure and permanent pipe systems and pipe connections are required, Straub supports the customer individually, by offering engineering solutions and on-site installation. Based on the original Straub coupling technology, and in close cooperation with the customer, the right coupling is developed that fulfils the project-specific specifications.



Couplings from Straub

Straub Werke AG – Switzerland
straub@straub.ch
www.straub.ch

Dimensional measurements of tubes

Based on its RotoUTscan ultrasonic rotating head, Contrôle Mesure Systèmes (CMS) has introduced the new RotoUTDim for the dimensional measurement of tubes and cables from 4 to 250mm diameter on the production line.

This system is designed to measure wall thickness all around the product, OD, ID, ovality, concentricity and eccentricity, for all types of materials, including steel

(ferrous and non-ferrous), plastic and fibre glass.

Measurements are made by two ultrasonic transducers that rotate around the product. Data is collected in real time over the entire circumference with a step up to 0.1mm, and all along the product (whatever the length) with a step of 1mm. Accuracy of the measurements is ± 0.002 mm. Data is collected in a supervisor, visualised

and saved. Gates for alarms are available, and input of encoder allows the positioning of the data.

RotoUTDim covers a wide range of industrial applications, such as nuclear, automotive, precision tubes and cables, medical and multi-layer coating.

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

Stand no.
6C44

Shaping stainless steel

Vena is a stainless steel tube producer from Turkey. Its stainless steel pipes and hollow sections are produced by TIG, HF and laser welding techniques, and are used in paper, chemistry, medicine, paint, petro-chemistry, plastic and food industries, and corrosive environments.

The company's facility at Gebze, near Istanbul, has an annual capacity of 42,000 tons of stainless steel pipes and hollow sections.

Stainless steel pipes range from 10 to 168mm in diameter, and stainless steel

hollows vary from 10x10 to 120x120mm, produced according to EN standards.

Vena Paslanmaz Çelik Boru Ve Profil – Turkey
info@venaboru.com
www.venaboru.com

Stand no.
7E14

Complete pipe packages

Mazur Energy produces and supplies materials with carefully selected steel plants and organises the production of pipes for applications as complete packages within the power industry, and refining and oil and gas industry. Turnkey services include engineering, fabrication, project management, heavy logistics and consultancy for every project.

The company offers production and delivery of its own steel products, in particular boiler pipes in grades X10CrMoVNb9-1, X10CrWMoVNb9-2 and others working in high temperatures (creep resistant). The company's range

also includes design of boiler parts, piping components, T and Y fittings, and fabrication and assembly of boiler and industrial piping.

Mazur Energy also offers a wide range of services, such as technical consulting during agreement/contract preparation for realisation of delivery, production and assembly for constant control/inspection of fulfilment requirements.

The company manages inspection and control of technology processes according to agreement/contract in order to ensure timely delivery, cost reduction

and final product quality compliant with customers' requirements. Other services consist of tests and diagnostics with final acceptances by notified bodies, and additional creep test of creep-resistant materials (working in high temperatures). Mazur Energy provides free preliminary examinations by portable SFM microscopy for pipeline life assessment, in order to make a decision about the necessity of repair, modernisation or investment.

Mazur Energy Sp zoo – Poland
marketing@mazurenergy.pl
www.mazurenergy.pl



Precision welded tubes and profiles

1CSC is a producer of precision welded tubes and profiles according to EN10305-3 and 10305-5. The company provides tube solutions including high-speed cutting to fixed lengths and 3D laser processing.

In addition to its tube and profile manufacturing programme, 1CSC offers services in steel coil cutting and slitting, laser material processing of metal sheets, separate pressing up to 3,200kN and automatic CO₂ welding.

The company has been ISO 9001 certified.

1CSC as – Czech Republic
1csc@1csc.cz
www.1csc.cz



Ultrasonic testing with full immersion control tank

Provea recently delivered a new ultrasonic testing bench. The main developments concerned the UT control tank and the tube conveying and guidance systems for helical motion of the tube.

The full immersion control tank is based on a stainless steel structure featuring specific guidance parts for tube axis/sensors. Five ultrasonic sensor holders are included, with dedicated and accurate positioning mechanical settings (longitudinal, transversal defect detection and wall thickness measurement). Sensor mapping can be set on demand.

New electrical positioners have been added so that settings are registered in the control panel. For one tube campaign (OD, WT), positions of probes can be registered in the panel. Mechanical settings are called for a new campaign (eg table height automatically set). The tank is suitable

for conventional sensor application and phased array technologies.

3-roll centring and motorised systems have been designed specifically for the project, allowing helical motion of the tube. The pitch chosen is set using centralised angle rolls. Automated speed regulation is ensured between each roll of the unit. The new design also enables a large tube range capacity. Mechanical pinions ensure an identical distance between each pair of rolls in contact with the tubes.


The global bench also features a machined up and down table for OD adjustment, specific software, feeding and sorting conveyors, storage tables, and water recirculation system for UT control. The new developments will be presented at Tube Düsseldorf.

Provea – France
contact@provea-machine-tube.com
www.provea-machine-tube.com

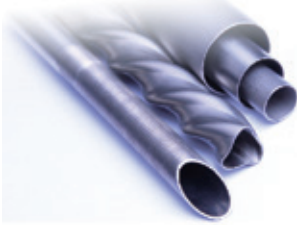


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E-mail: kensu@xuyititan.com www.xuyititan.com

Pipe with corrosion-resistant coatings



Hall Longmore is co-exhibiting with major South African businesses as the Steel Tube Export Association of South Africa (STEASA) on the Department of Trade and Industry, Republic of South Africa exhibition stand.

Hall Longmore OCTG pipe ready for shipping



The company manufactures ERW pipe to a maximum diameter of 610mm, and SAW pipe up to 2,500mm diameter. Its range of OCTG pipe was recently introduced to the US market and is distributed internationally to selected markets.

A wide range of protective corrosion-resistant coatings and linings suitable for various applications will be on display.

Ongoing research and development has led to new capabilities in the field of external coatings. These include various liquid epoxy applications; FBE in conjunction with an abrasive resistant overlay (ARO); FBE in conjunction

with a polyurethane UV inhibitor; and rigid polyurethanes (RPU). Successful trials have also been concluded on the manufacture of X70 pipe (DN650) for the oil and gas market, and the manufacture of thin wall pipe for structural purposes: 4mm DN600 (ERW) and 3.5mm DN750 (H-SAW).

The company's upgrade and capacity-building programme aims to secure Hall Longmore's position as a specialist manufacturer of large bore welded steel pipe in accordance with the American Petroleum Institute (API) standard, and coatings and linings in sub-Saharan Africa.

Hall Longmore (Pty) Ltd – South Africa
info@hall-longmore.co.za
www.hall-longmore.co.za

Seamless tubes, pipes and round bar

Oscar Production Group is a manufacturer of seamless tubes, pipes and round bars of titanium, nickel alloys and stainless steels. The group was founded on the manufacturing facilities of Workshop No 4 of the former Nikopol Yuzhnotrubny Plant (NYTP) and hot pressed workshop of the Scientific and Research Institute of tube industry YE Osada.

The group offers 40 years' experience in manufacturing seamless cold drawn tubes for aerospace applications, nuclear power engineering, petrochemical, pharmaceutical, shipbuilding and the defence industry. The mill also manu-

factures tubular products for general applications.

The company's range covers tubes and pipes with outside diameter from 0.3 to 133mm and wall thickness from 0.08 to 20mm. In addition to tubular products, the company can produce round bars from 16 to 100mm in diameter.

The group's specialities are the production of extremely thin-walled titanium tube with large outside diameters, and titanium ribbed tubes with very tight tolerances on all dimensions of the rib and tube. It also produces multi-layer tubes with individual layers from 0.16

to 0.25mm thickness; from two to 12 layers are possible.

The Oscar Group's quality system is certified according to ISO 9001, EN 9100, PED 97/23/EC, NADCAP, NORSOK, ARMAK and Maritime Register. Oscar PG Ltd supplies products according to international standards EN, DIN, ASTM/ASME and AMS, as well as in accordance with domestic standards GOST and TU, and special requirements of the customer.

Oscar Production Group Ltd – Ukraine
mail@oscar-tube.com.ua
www.oscar-tube.com.ua



Industrial steel pipes and construction steel profiles

Boray Pipe and Profile Co is a Turkish manufacturer of industrial steel pipes and construction steel profiles. The company is part of Aytekin Group Companies. It is one of the largest steel manufacturers and exporters in the Mediterranean region. The company's production capacity is greater than 60,000 tons per year. It manufactures

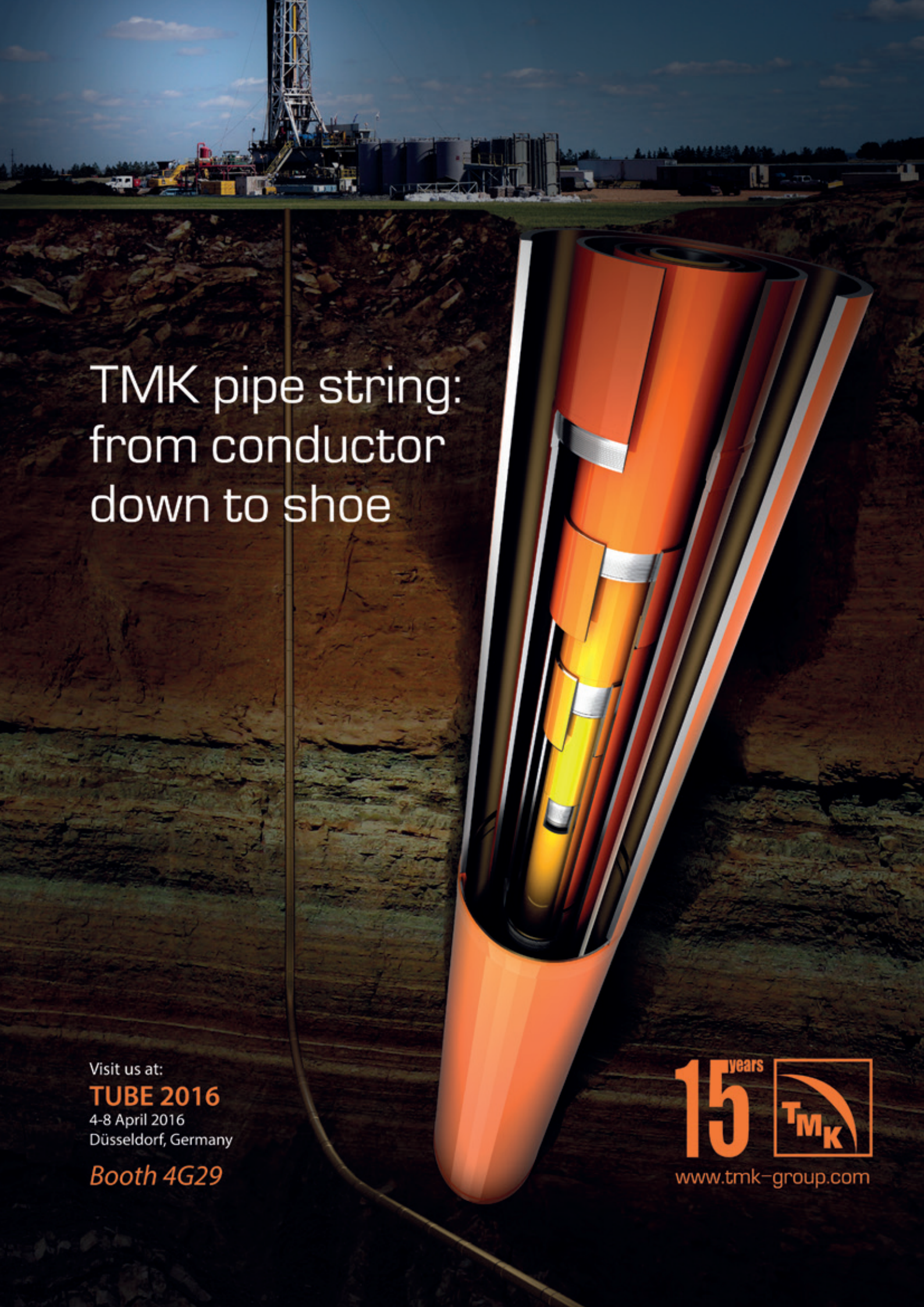
industrial pipes, construction profiles, flower or wood patterned profiles and pipes, hammered profiles, plain and patterned handrails, galvanised construction profiles and pipes, and special shaped profiles. Products range from 1 to 4mm thickness. Dimensions are between 20x20 and 80x80mm for square profiles, and 20x30 to 60x100mm

for rectangular profiles. Pipe diameters range between 20 and 101.6mm.

Boray Pipe And Profile Co – Turkey
info@borayboru.com
www.borayboru.com

Aytekin Group Companies – Turkey
www.aytekin.com.tr





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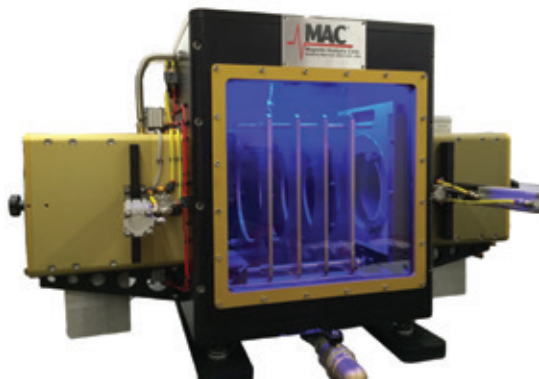
www.tmk-group.com

Phased array ultrasonic test system to launch at Düsseldorf

Magnetic Analysis Corp (MAC) will be launching the Echomac® PA, its first ultrasonic phased array test system, at Tube 2016. Complementing MAC's existing broad range of rotary ultrasonic testers, a phased array test system designed to inspect up to 180mm diameter material has been supplied to a European customer. A second similar PA system, designed to inspect up to 100mm material, will be supplied later this year.

Rotary ultrasonic testers can provide higher speed testing when multiple defect types are involved. However, phased array technology has evolved to the point where there are now some applications that can benefit from its unique capabilities. MAC's new Echomac PA system is capable of generating normal incidence as well as clockwise and anticlockwise shear waves electronically from linear transducer arrays, providing defect detection and wall thickness measurement.

Test head for MAC's new Echomac PA phased array test system



The focus of the element can be located at more than one depth. This allows one phased array multi-element probe to be used for working at different angles of incidence and different depths, instead of requiring several single element probes with different focal distances as would be the case with traditional UT.

With these capabilities it is possible to test a range of sizes, or fine-tune incidence angles, without having to make physical adjustments to transducer positions. With this introduction, MAC states that it will become one of the few companies that can offer either rotary or phased array solutions, ensuring that the customer gets the best tester for their application.

In addition to the new phased array system, MAC's 500mm test systems utilising rotary ultrasonic and flux leakage technology will be featured. The rotary test technique spins large numbers of transducers around the pipe as it passes through an enclosed rotary test chamber continuously supplied with pressurised water couplant. This design offers higher throughput speeds, quicker reconfiguration of transducers for different diameter material, repeatable test results and 100 per cent coverage.

The 500mm UT tester can detect longitudinal and transverse crack type defects on OD and ID pipe surfaces, and throughout the product's cross section, as well as lamination type defects, meeting standards that require finding artificial notches at a 5 or 10 per cent level of the wall in pipe with any

wall thickness. The system, which also features MAC's wireless transmission of test signals, can ensure compliance with industry standards at throughput speeds up to 1m/s.

The 500mm transverse and longitudinal Rotoflux® flux leakage testers, combined with the ultrasonic test, provide a more comprehensive test, especially for OCTG material. The addition of the UT rotary to the magnetic flux leakage testers provides complete all-direction test capability and gives the user full flexibility to optimise the pipe inspection process.

The two flux leakage units can test to 5 per cent OD and ID notch levels in up to approximately 12mm wall thickness, and 10 per cent OD and ID levels for thickness up to 15mm. The result of the combined test technologies is a system that is compliant with API 5CT and 5L, ASTM E570 and other standards, including those that require ultrasonic testing as the first method and a second method at the discretion of the pipe producer.

MAC's experienced engineers will be present at the stand to discuss the company's full range of ultrasonic phased array, rotary and full body test systems for tube and pipe, as well as the new compact Minimac® 55 eddy current tester, which features all the capabilities of MAC's Multimac® software in a single channel instrument.

Magnetic Analysis Corp – USA
info@mac-ndt.com
www.mac-ndt.com



Tees and crosses

BTH Elstar Sp zoo, founded in 1995, is a trader and producer of a wide range of stainless steel products for various branches of industry. The company produces tees according to standards EN 10253-3 and DIN 11852, crosses and collectors from stainless steel within the size range DN20-DN400, and pipe clamps in the size range DN10 to DN250, with or without support.

Elstar's leading product is the tee of the EN 10253-3 standard. The company recently improved production and introduced a passivation process. Its factory in Elblag in the north of Poland is able to produce stainless steel tees and crosses, as well as non-typical pipeline elements such as collectors, according to individual needs and designs.

The company's main goal is to deliver comprehensive service, including technical support and delivery of fittings for the food industry, threaded fittings, welded fittings, industrial valves and pipes.

BTH Elstar Sp zoo – Poland
bth@elstar.com.pl
www.elstar.com.pl



Specialist for precise metal processing

Poppe + Potthoff will be presenting its extended manufacturing capabilities. As well as seamless precision steel tubes, the company now offers welded drawn pipes. In addition, the dimensions have been extended.

Customised tubes are now available with an external diameter of up to 100mm at wall thicknesses of up to 11mm. The group of companies develops and produces customised

steel tubes, common rail subsystems, high-pressure injection lines, precision components, drive shafts and couplings, as well as special machines and test stands for various industries. This allows Poppe + Potthoff to provide technically sophisticated solutions in the automobile and commercial vehicle sector, shipping industry, machine and tool making industries, and other industries. The family enterprise, founded in 1928, has its headquarters

and technology centre in Werther, Germany, and has 15 production plants and sales branches in nine countries. With its subsidiaries and long-term partners, Poppe + Potthoff offers customer-orientated activities in more than 50 countries.

Poppe + Potthoff GmbH – Germany
info@poppe-potthoff.com
www.poppe-potthoff.com



Cold rolled seamless tube manufacturer passes EN 9100

Duisburg Tubes Production AG (DTP), a German manufacturer of cold-rolled, high-precision seamless tubes, successfully passed the EN 9100 certification process at the end of 2015. The evaluation procedure was carried out by TÜV Nord.

“I am so happy and proud of my team and company, to accomplish the EN 9100 certification,” said Eduard WJ Regele, CEO of DTP. “This is an important step for us and our diversification strategy.

As a long-term supplier for cladding tubes for nuclear fuel rods we have the quality management system to also fulfil aviation industry requirements. The goal is to find customers and industries with a special demand for high precision tubes, with a need for very small tolerance ranges and perfect surfaces. We have the stable and capable processes to meet those demands.”

DTP manufactures and supplies cold pilger mill seamless tubes, using a

special form of cold rolling. The claimed advantages are material homogeneity, small tolerance ranges and a perfect surface finish. The production and know-how is highly specialised for manufacturing and developing seamless tubes made of zirconium, titanium, nickel-based alloys and aircraft alloys.

Duisburg Tubes Production AG – Germany
sales@ntp-ag.eu
www.ntp-ag.eu



TAP contract for onshore line pipe

Trans Adriatic Pipeline AG (TAP) has awarded Corinth Pipeworks a contract for the supply of large diameter pipes, for a total length of approximately 495km, for the onshore part of the pipeline across Greece.

The contract for approximately 270,000 tonnes of 48" diameter line pipe was awarded to Corinth Pipeworks, in partnership with the Japanese group Marubeni-Itochi Steel, following an international tender and a strict evaluation procedure. Delivery of line pipes will begin in 2016 and will be completed in 2017.

Corinth Pipeworks produces steel pipes utilised in energy projects, specifically for the transmission of liquid and gas fuel, and also supplies large diameter

hollow sections to the construction sector.

The Trans Adriatic Pipeline will transport natural gas from the giant Shah Deniz II field in Azerbaijan to Europe. The 878km-long pipeline will connect with the Trans Anatolian Pipeline (TANAP) at the Turkish-Greek border, then cross Greece, Albania and the Adriatic Sea, before coming ashore in southern Italy.

TAP's routing can facilitate gas supply to several South Eastern European countries, including Bulgaria, Albania, Bosnia and Herzegovina, Montenegro and Croatia. TAP's landfall in Italy provides multiple opportunities for further transport of Caspian natural gas to some of the largest European markets such as Germany, France, the



UK, Switzerland and Austria. First gas sales to Georgia and Turkey are targeted for late 2018, with first deliveries to Europe in early 2020.

Corinth Pipeworks SA – Greece
info@cpw.gr
www.cpw.gr



Serving the world with stainless steel

SKM Steels Ltd (Export Division) is an export arm of SKM Group, a government-recognised export house having its own production facility in India, which produces non-corrosive stainless steel products. The bright bar unit comprises annealing, pickling, drawing, peeling, straightening, polishing and centreless grinding lines.

The product range of round, square and hexagonal stainless steel bright bars

is available in various sizes, grades, supply conditions, packing and usage according to consumer requirements.

SKM Steels has won a number of awards for export excellence from EEPIC (Engineering Export Promotion Council) India. As a result of continuous growth and commitment to customers, the ISO 9001-2000 and AD 2000-Merkblatt WO certified company exports its products all over the world,

as well as catering to its domestic market.

SKM has a growing customer base in countries including Germany, the Netherlands, Denmark, Italy, Spain, UK, Brazil, Turkey, Korea, Taiwan, Thailand, Iran, Dubai and Israel.

SKM Steels Ltd – India
export@skmsteelsltd.com
www.skmsteelsltd.com



Heat exchanger tubes

Since its inception in 1978, Profins has become a foremost manufacturer and supplier of heat exchanger tubes.

Initially created to manufacture high-quality finned tubes for air-cooled heat exchangers, the company's product portfolio has evolved over the course of

its experience within the thermal transfer business to include a stock of more than 1,000 tonnes of plain heat exchanger tubes for use in shell and tube heat exchangers, and an in-house bending facility to ensure that the majority of jobs in this sector can be turned around within a matter of days.

The company also supplies aluminium finned tube support boxes, header plugs and gaskets, aiming to be a one-stop solution to customers' needs.

Profins Ltd – UK
info@profins.com
www.profins.com



New premises for TAG Pipe Equipment

TAG Pipe Equipment Specialists Ltd has more than 30 years of experience in the manufacture and supply of pipework fabrication machinery, tools and handling equipment. Now the business has marked a major milestone by celebrating its recent growth with the opening of new purpose-built premises.

Commenting on the opening of the new premises in Grendon Underwood, Buckinghamshire, UK, sales manager Justin Gammond said: "It is paramount that we get our equipment in front of our customers and distributors – that's why many of our staff are regularly out on the road, performing demonstrations, both in the UK and across the globe. Another major platform for us are exhibitions with major events such as the recent FABTECH in Chicago and next year's Steelfab in Sharjah, not to mention the Tube Fair in Düsseldorf, and the Mach 2016 Exhibition in Birmingham.

"Our new premises also gives us the ability to invite customers to our works

for demonstrations or in-house training, which is vital to help us give customers confidence in our equipment. The custom-designed and furnished premises also allows us to hold more stock than ever before and that means less lead times for our customers. Previous maximum stock levels were becoming insufficient for the fulfilling of more regular larger end users or distributor orders. Now we have all the space here to not only store stock and demonstrate equipment, but to also utilise a range of test facilities and test equipment for our rapidly growing R&D demands."

TAG is also about to open an Indian company – TAG Pipe India – which will join overseas branches in Belgium, the USA, Dubai and China. It has also undertaken several recent partnerships and ventures in North and South America, Europe, the Middle East and Africa.

TAG specialises in six key areas of pre-fabrication tools and equipment: pipe cutting machines, pipe bevelling

machines, pipe alignment clamps, pipe purging systems, pipe support stands and buggies together with its range of heavy-duty plate bevellers.

TAG director Aidan Tagliaferro added: "The key to our success is the equipment we manufacture and supply and the team we employ to promote and support it. Not just in its quality but its ability to do what we say it will. We don't just like to talk about the quality and performance of our equipment, our preference is always to put our products, and ourselves, in front of potential customers and to let them draw their own conclusions."

A number of additions have recently been made to the range, such as the new E-Z Fab workshop cutting and bevelling system, and the remote controlled NC servo split-frame clamshell on-site cutting and bevelling range.

TAG Pipe Equipment Specialists Ltd – UK
sales@tag-pipe.com



An expert view on small diameter tubing

Article supplied by Fine Tubes, UK, and Superior Tube, USA

For precision tube manufacturers Fine Tubes (UK) and Superior Tube (USA), small diameter tubing is viewed as tubing with an outside diameter (OD) of less than 9.5mm ($\frac{3}{8}$ "), typically with a correspondingly thinner wall thickness, although both businesses also produce small diameter tubes with thicker walls, depending on the requirements of the end applications.

What are they used for?

The applications cover a wide range of markets, including aerospace, medical and nuclear. In the aerospace industry, for example, small diameter tubes are used extensively for hydraulic lines, instrumentation, engine components and heat exchangers. The products used generally have an OD of between 3.2 and 9.5mm ($\frac{1}{8}$ " to $\frac{3}{8}$ ") but, when required, tubing with an OD as small as ten thousandths of an inch (0.01") – about three times the thickness of a human hair – can be manufactured.

For the medical market, more than 80 per cent of the tubes that Superior Tube produces are ultimately implanted in a patient's body, which means the tubing not only needs to meet the highest strength-to-weight ratios but also the highest standards of microbiological corrosion resistance and fatigue life. Products from both Superior Tube and Fine Tubes form part of a wide range of medical devices such as coronary stents, artificial heart valves and components for implantable defibrillators.

In the nuclear energy market, both tube mills have long records of supplying small diameter tubing for a range of in-core reactor components. Precision, quality and performance are crucial, and tubes are deployed in the fuel cans of advanced gas-cooled reactors in which they endure temperatures of 650°C, without fail, for five years non-stop.

How are they produced?

Superior Tube and Fine Tubes offer two different forms of small diameter tubing – seamless and weldrawn. The manufacture of seamless tubing begins with either an extruded hollow tube or a solid bar that has been drilled out. It continues with a series of cold working steps to reduce the OD and make the wall thickness thinner. After each step, the tube is cut and then put through an annealing process to relax the stresses inside the tube and enable the next cold working stage to begin, until the product reaches the exact size, tolerances and temper required by the customer.

The weldrawn process, originally developed and trademarked by Superior Tube, starts with a cold rolled strip of metal that is formed into a tubular shape with an open seam. TIG welding is applied to join the seam together before the same cold working and annealing steps are applied as for the seamless form. These steps have the effect of recrystallising the structure in the weld zone, creating a fine grain structure and making the weld invisible to the naked eye.

One of the biggest challenges with small diameter tube processing relates to the cleaning of the interior diameter (ID). For the cold working of any tube, it is essential to use lubricants in order to prevent surface defects, but those lubricants have to be completely removed from both the OD and ID surfaces before the next annealing step is undertaken,



High pressure tubes with 40-micron wall thickness

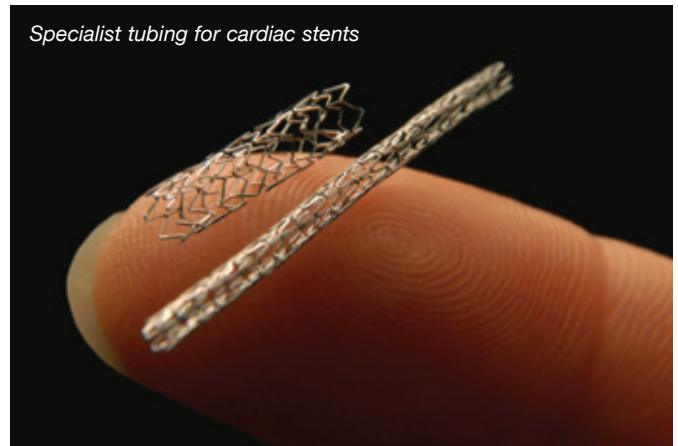
to avoid contamination in the metal. In the case of small diameter tubing, the cleaning process needs to be that much more robust. Both Superior Tube and Fine Tubes use an immersion de-greasing process as well as a secondary cleaning operation for all small diameter products.

What materials are used?

Tubing manufactured by Superior Tube and Fine Tubes is essentially made to order for customers who specify not just the size but also the material to be used, as well as other special requirements. However, there are occasions when customers seek advice in relation to specific applications. Typically, both companies manufacture small diameter tubing in 300 series austenitic stainless steel, a range of high-temperature nickel alloys, and certain grades of both titanium and zirconium.

How are they tested?

The background to all testing procedures is the quality system that underlies them. Both companies hold ISO 9001 certifications as well as a wide range of industry and specific customer approvals. These certifications and approvals are supported by extensive in-house capabilities for metallographic testing, mechanical testing, non-destructive



testing, some destructive testing, and visual and dimensional inspection.

An important point to make is that when testing small diameter or thin wall tubes, commonly used methods such as the Rockwell test are not ideal, as the relatively high load can distort surfaces or even punch holes through the tube walls. The critical need is to find a way of effectively correlating the results from different testing methodologies. Fine Tubes has undertaken detailed research with the UK National Physics Laboratory to find a meaningful comparison between hardness scales using different tests.

A heritage of small diameter tubing

Superior Tube was founded in 1934, and Fine Tubes in 1943. Between them, the two companies have a long record of producing high-performance tubing, including small diameter tubing, for the most demanding applications presented to them by their customers.

Superior Tube took advantage of the 1939 New York World's Fair to demonstrate that it had the capability to meet technological demands beyond those its customers yet required. On display was "the smallest tube ever made" – a tube with a total diameter of just 26/10,000th of an inch. While it was manufactured purely for the sake of the exhibition, to demonstrate that it was possible, it has been claimed that tubes of this scale have been used for the artificial insemination of mosquitoes!

Building on their heritages, both businesses are now part of Ametek Specialty Metal Products, a division of Ametek, Inc, and are positioned as market leaders in small diameter tubing for applications that require extremely tight tolerances, special mechanical properties or unusual alloys. Superior Tube and Fine Tubes pride themselves on being able to produce such exclusive products.



Fine Tubes Ltd – UK
www.finetubes.com

Superior Tube Company – USA
www.superiortube.com

Oilfield technology components: high quantities of the highest quality

Article supplied by EMAG, Germany

Although the coupling sleeve is a relatively small component, a great deal depends on its faultless performance. These sleeve or tool joints are used to precision-join the casings and delivery pipes with a perfect screw fit, providing an absolutely leak-proof and durable connection of the highest precision while bearing the weight and considerable flexural stresses of the pipes.

Production errors or large tolerances on the coupling sleeve can endanger the whole resource delivery process. With this in mind, the main focus is on efficient mass production techniques, with the key question being how an extremely high quality of the production process for coupling sleeves can be guaranteed, especially when the job calls for a single production facility to manufacture millions of these components each year.

An intelligent concept provides a competitive edge

The specialists at EMAG Leipzig Maschinenfabrik provide a very precise answer to this question. The company has specialised in the machining of oilfield components – such as coupling sleeves, tool joints and rock bit cones, as well as casings and delivery pipes – for decades.

But it is the production of coupling sleeves in particular that shows how demanding this sector can be, as it covers a multitude of processes from the actual threading operation to the cleaning process, and from visual inspections to the final plating operation.

The component also features a marking that details the component data (ie charge, material, manu-

facturer, machine and cycle time). This multi-layered production process benefits greatly from the intelligent EMAG machine concept, where process integrity and precision are as good as built-in.

The pick-up principle scores highly

Coupling sleeve production lines mainly use machines from the VSC and VLC series. They are equipped with a pick-up spindle that not only collects the workpiece from the incoming conveyor belt, but firmly holds it vertically while it is machined in the tooling zone.

This is of particular advantage where large quantities of these sleeves are to be machined, as Dieter Fischer, managing director of EMAG Leipzig, explains: “The component can be produced in a much shorter time, as the various processes are carried out one after the other in cycle times counted in seconds. These processes do not only cover machining, but also additional operations such as cleaning or measuring.”

When it comes to the mass production of coupling sleeves in particular, the time savings add up to a considerable



The VSC 400 DUO CM turning machine with automation, as commonly used in the production of coupling sleeves

competitive advantage for the user, as shorter machine runtimes lead to a massive reduction in component costs.

High processing quality included

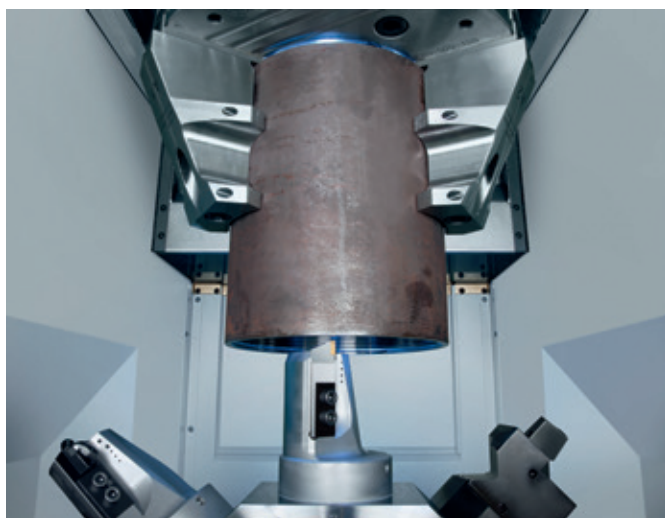
In addition to the other advantages, the process chain also guarantees a consistently high component quality.

For one, all machining processes are fully automated, circumventing errors that occur when using an unnecessarily large number of workhandling processes. The vertical machining concept also provides for optimal chip flow conditions, preventing the build-up of chips in the machining area, which can interrupt the production process.

Another important focus of the machine builders in Leipzig is the flexibility of their machines. The different frame sizes of the VSC and VLC series machines allow for the complete machining of coupling sleeves of a multitude of diameters: the VSC 400 has a capacity of 2³/₈" to 9⁵/₈", and the VLC 800 from 7" to 24".

Furthermore, the machines are capable of cutting all types of threads, a factor of great importance when it comes to the oilfield industry, as Mr Fischer explains: "It is, of course, possible to machine coupling sleeves with threads to API and GOST standards, but proprietary threads can also be generated. Larger oilfield technology producers have their own thread standards. We can equip our machines to perfectly suit these requirements."

The vertical construction of the VSC 400 DUO CM and VSC 500 CM coupling sleeve machines ensures optimal chip flow with no build-up of chips to interrupt the production process



The automation system can be configured to suit customer requirements



Market development opens up new opportunities

The machine builders in Leipzig view the future with great optimism.

Already market leaders in machines for the threading of coupling sleeves and the machining of other oilfield technology components, and given the dynamic development within the oil industry, there are new opportunities opening up, as Mr Fischer points out: "When large sub-suppliers want to expand their production capacity, our technology is their first choice. The production processes are very compact, yet flexible and fast. Component costs are reduced. And we offer a global, all-in service. These are all advantages that, in our opinion, will be welcome in this marketplace."

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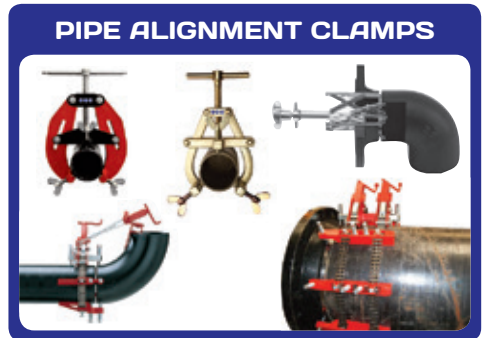
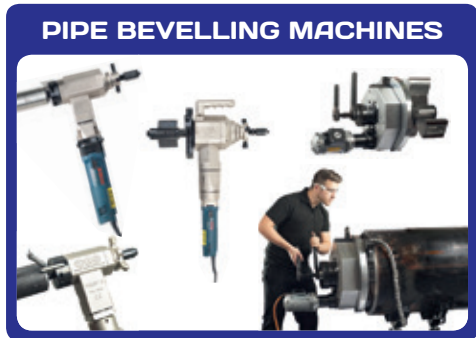
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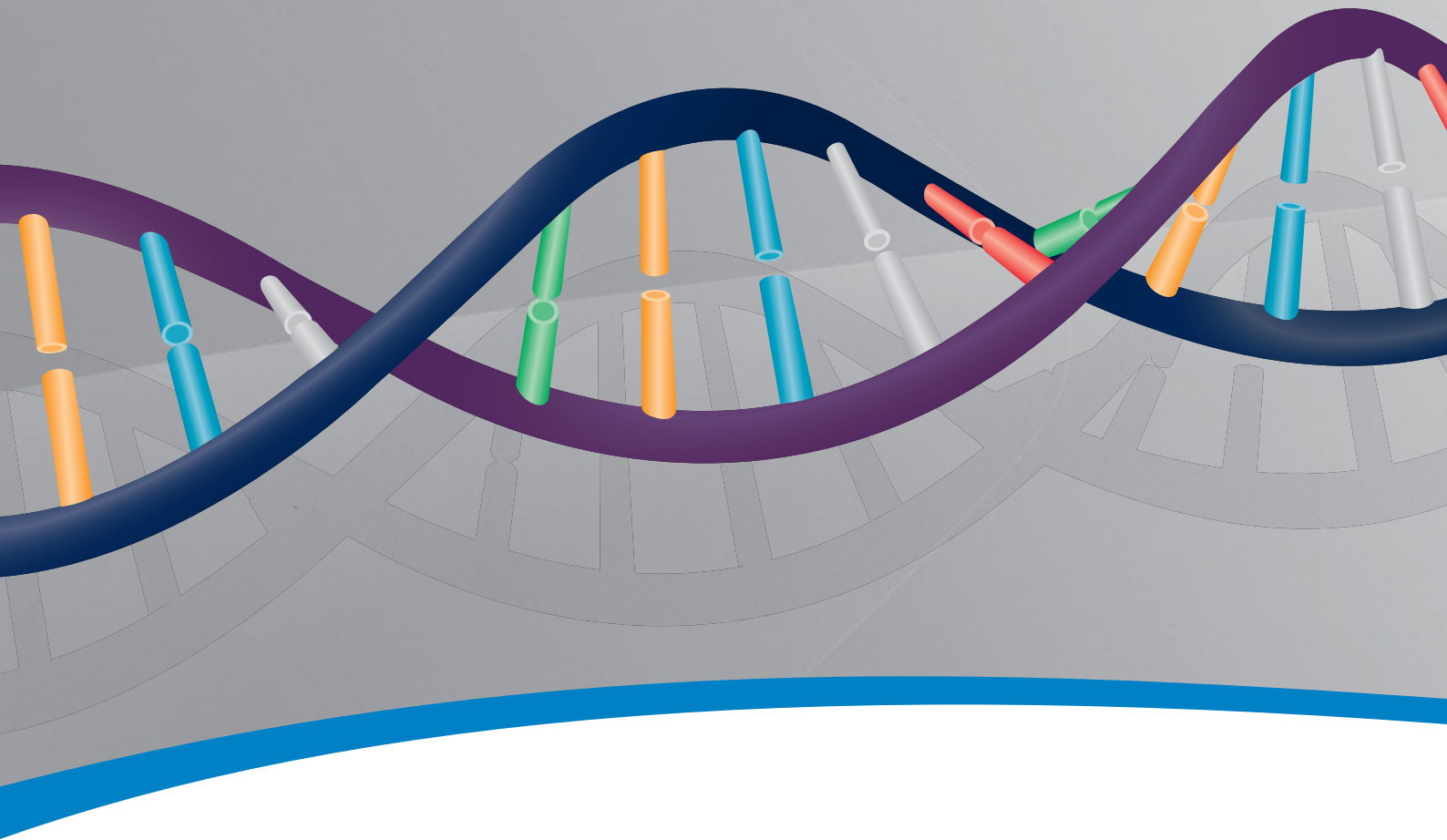
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EZFAB8CB	2—8"
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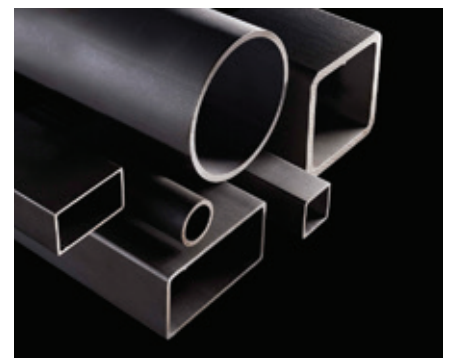
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