

The international magazine for the tube and pipe industries

TUBE & PIPE TECHNOLOGY



March 2012 | Vol 25 No 2 | US\$33

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CNC PIPE BENDER





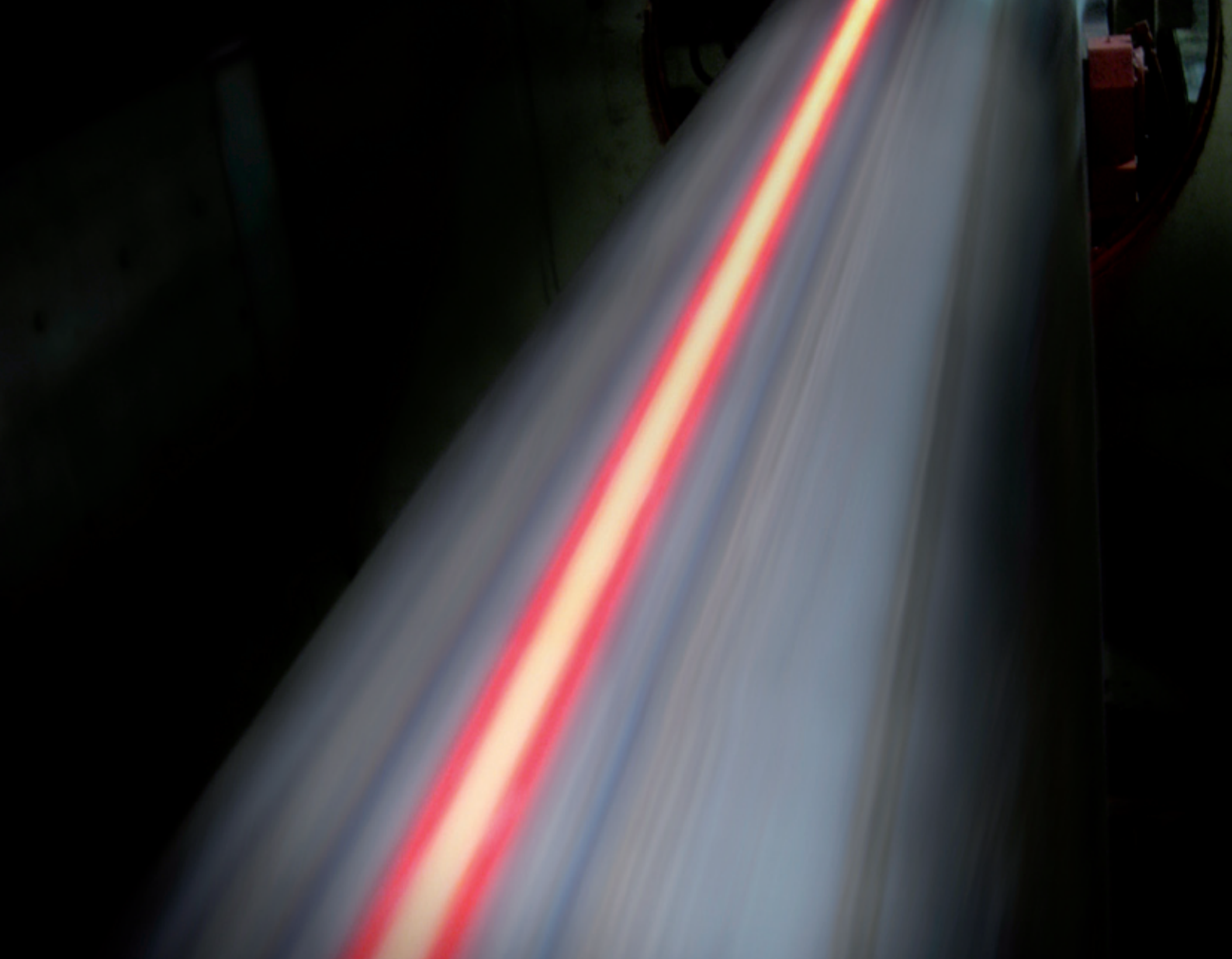


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So whatever your pipe normalizing needs, you can turn to us for a solution. And since we're present around the world, that solution is probably closer than you think. Contact us today. There's a vast oil and gas pipe market out there. We'll help you get a share of it.

Learn more about our pipe welding and normalizing solutions at Tube Düsseldorf 2012, Hall 06 / C26.

THE MARCH ISSUE

Welcome to this special Tube 2012 edition of Tube & Pipe Technology. We have features on straightening technology and equipment as well as handling, bundling and logistics. We also have two fascinating articles (starting on page 222) from EFD Induction and Siemens.

The weeks and months leading up to Tube 2012 are always a very busy and exciting time for the magazine – and that's before we have even arrived at the show, which never fails to amaze due to its sheer size and scale. Organisers Messe Düsseldorf are reporting that it is set to be one of the most successful shows ever – we will of course have a full breakdown on how the show went and how many people attended in the May issue, but the latest figures are already staggering. The show is expected to welcome in excess of 1,055 tube and pipe-related companies from 44 different countries. And all of these tube companies cover a staggering 50,000m² of exhibition space. This year Tube occupies Halls 1 through to 7a. Tube accessories can be found in Halls 1 and 2, with tube trade and tube manufacturing situated in Halls 2, 3, 4 and 9.

TPT and its sister magazine Tube Products International will, of course, be at the show in force – pick up the latest issue in the North entrance hall or please do come and say guten tag to us at our stand located at 4F11. Enjoy the magazine and the show.

Rory McBride – Editor



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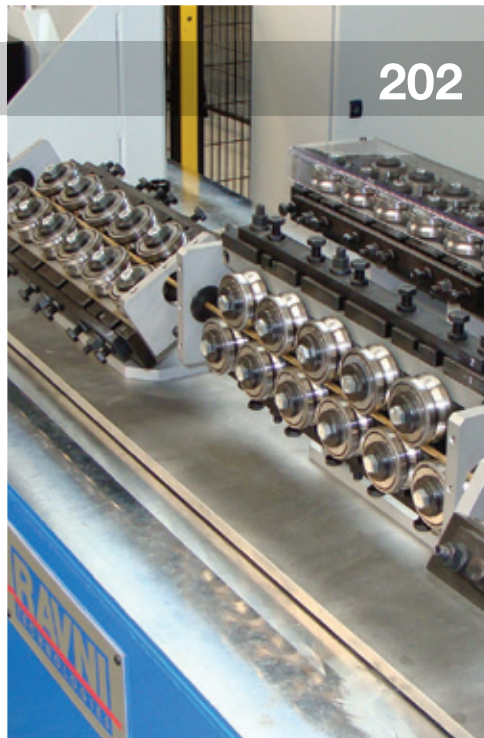
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Tube Düsseldorf 2012

Tube Düsseldorf is the biennial international tube and pipe trade fair and the world's biggest and best showcase for the tube and pipe industry and those serving it. Those heading for Düsseldorf for Tube 2012 will meet old friends and make new ones, will strengthen their command of current industry practice and explore tomorrow's methods today.

Straightening technology and equipment

Only a perfectly straight tube can be reliably and faultlessly bent and for the millions of profiles, angles, fork tubes, bar channels and a host of other intricate shapes that are needed all around the world each day that makes it an extremely important process. The suppliers reviewed here are aware that straightness – trueness – always comes first.

Handling, bundling, packaging and logistics

The word “handling”, with its suggestion of manual labour, may seem outmoded in a period when an industrial robot can feed blank hydroformed steel tubes into one end of a computerised injection moulding machine and collect them at the other, but there are many different challenges presented by this process, all of which are catered for in this feature.

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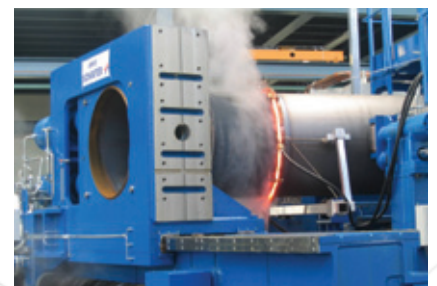
Maximising output in high-frequency tube and pipe welding

By Bjørnar Grande and Olav Wærstad, EFD Induction, Norway

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Induction bending takes an innovative route

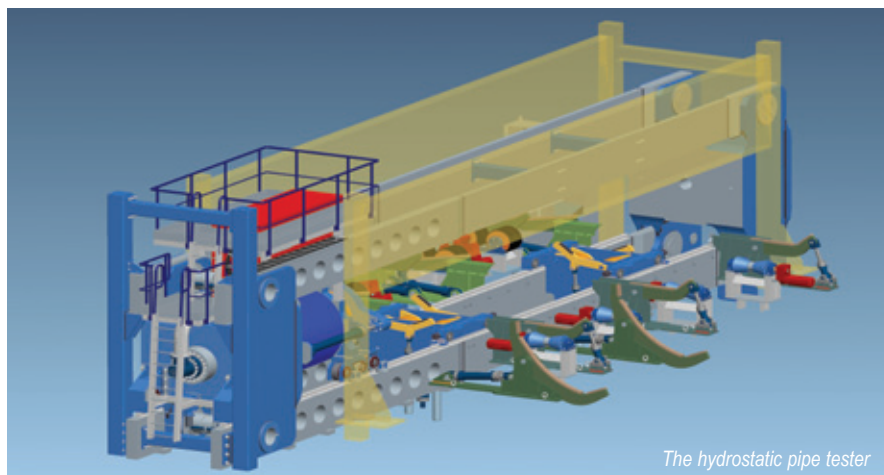
By Dipl.-Ing. Andreas Diepgen & Hans-Peter Klos, Siemens AG, Germany



Hydrostatic pipe tester installed

BEG Steel Pipe Corporation, USA, has placed an order with SMS Meer, Germany, for the supply, installation and commissioning of a new hydrostatic pipe tester for longitudinally welded large diameter pipes. The new tester is to replace an existing tester in the works in Panama City, Florida. BSPC mainly produces line pipes there. With the new tester, the company will be meeting the growing requirements relating to new pipe materials, dimensional ranges and, above all, the stipulations of the international certification authorities. Thanks to the use of completely prefabricated assemblies, installation will take place without any noticeable standstill times.

The new hydrostatic pipe tester is designed for 12.4m long large diameter pipes with diameters of 24 to 62" (609.6 to 1,574.8mm) and wall thicknesses of ¼ to 1½" (6.35 to 38.1mm). The maximum test pressure is 35MPa, and the clamping force attains 40MN. The test pressure lies well above the



The hydrostatic pipe tester

later operating pressure of the pipes. Project manager Matthias Büchter of SMS Meer said: "We have designed the tester in such a way that we can almost fully use the existing foundations at the customer's works. BSPC thus saves considerable costs." The new plant is designed for a higher throughput

than the existing machine. BSPC is thus equipped to face future capacity expansions in the works.

SMS Meer GmbH – Germany
Email: info@sms-meer.com
Website: www.sms-meer.com

Tube bending machine for China

DESIGNER, manufacturer and supplier of tube bending and endforming technologies, AddisonMckee of Lancashire, UK has manufactured a new eB 80 ES RB model machine for supply to Dinex in China.

The new machine represents a significant alternative to the existing DB 75 machine: in everything, that is, but cost.

A key to reducing the cost of the new machine lay in removing the ball screw

providing the boost and allowing the gearbox and motor instead to provide the force required for boosting. Hence the new machine enables freeform bending for the full length of the bed. Given the cost of floorspace at any facility, the new machine's modular design also has significant benefits if bed length flexibility is important.

The standard machine itself is two metres long but offers the capability to increase in length by bolting two sections together to extend the bed when required, converting the machine easily and cheaply to a three/four metre model.

AddisonMckee has always prided itself on its innovative approach, especially when it comes to developing most technologically advanced control systems. Back in 1984/5 the company introduced its Mark 1 control system incorporating the very first touch screen. The new Mark 7 system takes convenience and flexibility one step further by enabling a single control system to operate with both hydraulic and electric machines.

New sales rep is hired in Brazil

BURR Oak Tool Inc has appointed a local sales representative in Brazil. Forming Tubing Do Brazil, located in São Jose do Campos near São Paulo, Brazil, and Burr Oak Tool Inc, located in Sturgis, Michigan, USA, will work together during 2012 to facilitate sales of machines, tools and spare parts of its product line in Brazil.

Forming Tubing has more than 20 years of experience working with manufacturers in Brazil, and brings both market knowledge and an expansive business base to the partnership. The addition of these experienced professionals in Brazil will enhance customer service and help provide local solutions. For more than 65 years Burr Oak Tool Inc has designed and customised production machinery for the heat transfer and tube processing industries. Oak machines are installed and successfully operating in more than 70 countries. It provides quality machines, service and parts to customers worldwide.

Burr Oak Tool Inc – USA
Website: www.burroak.com

AddisonMckee – UK
Website: www.addisonmckee.com

Diary of Tube Events

Sikora appoints Turkish engineer

SIKORA has employed Ahmet Volkan Dogan as a service engineer at its offices in Turkey. The company has made the appointment following a number of positive business developments at the Turkish office in the last years. The creation of this new position in the field of service now allows the office in Istanbul to react faster to customer requests and to further expand its business in Turkey.

Since July 1997, Sikora has been active in the Turkish market. At that time a representative, the International Trade Consultancy, served the region. As a result of the strong demand for measuring and control system solutions in the East European and Asian region, Sikora Turkey was founded as sales office on 1 January 2009. Head of Sikora Turkey is Ajda Sarigülle. "We are proud to offer service also in Turkey," explains Harry Prunk, CEO of Sikora AG. "What is crucial is the proximity to our customers. With Mr Dogan in our team we can offer quick support if customers need us," added Mr Prunk.

Mr Dogan is an engineer for electronics and communication. He was educated at the University of Kocaeli and has many years of experience in the field of engineering.

Sikora AG – Germany
Email: sales@sikora.net
Website: www.sikora.net



Ahmet Volkan Dogan

2012		
MARCH		
26-30	Tube / wire Düsseldorf 2012 <i>Düsseldorf, Germany</i> Exhibition	➔ Email: infoservice@messe-duesseldorf.de Website: www.tube.de www.messe-duesseldorf.de
MAY		
7-11	IFAT Ensorga <i>Munich, Germany</i> Exhibition	➔ Email: info@ifat.de Website: www.ifat.de
28-31	Tube Russia 2012 <i>Moscow, Russia</i> Exhibition	➔ Email: ryfischd@messe-duesseldorf.de Website: www.metallurgy-tube-russia.com
JUNE		
26-28	ITA Tube Conference <i>Nashville, USA</i> Exhibition	➔ Email: info@itatube.org Website: www.itatube.org
SEPTEMBER		
25-28	Tube China 2012 <i>Shanghai, China</i> Exhibition	➔ Email: tube@mdc.com.cn Website: www.mdc.com.cn
OCTOBER		
23-27	EuroBLECH <i>Hanover, Germany</i> Exhibition	➔ Email: info@euroblech.com Website: www.euroblech.com
30 Oct – 1 Nov	Tube India <i>Mumbai, India</i> Exhibition	➔ Email: dughl@md-india.com Website: www.tube.india.com
NOVEMBER		
12-14	Fabtech / AWS Welding Show <i>Las Vegas, USA</i> Exhibition	➔ Email: information@mfabtech.com Website: www.fabtechexpo.com
27-29	Valve World Expo <i>Düsseldorf, Germany</i> Exhibition	➔ Email: infoservice@messe-duesseldorf.de Website: www.messe-duesseldorf.de
2013		
JANUARY		
7-10	Tube Arabia <i>Dubai, UAE</i> Exhibition	➔ Email: infoservice@messe-duesseldorf.de Website: www.messe-duesseldorf.de
FEBRUARY		
20-23	Indometal <i>Jakarta, Indonesia</i> Exhibition	➔ Email: infoservice@messe-duesseldorf.de Website: www.messe-duesseldorf.de
MARCH		
28-30	BORU 2013 (Ihlas Fuar) <i>Istanbul, Turkey</i> Exhibition	➔ Website: www.borufuari.com

BSA Tube Runner renews deal

MANUFACTURER of tube and pipe preparation machinery, BSA Tube Runner, and its parent company BSA Regal Group, have announced that they have extended their agreement as main sponsor of Hampshire Football Association for a further

four seasons, through to June 2016, which includes the sponsorship of the Saturday Senior Cup. The existing sponsorship agreement commenced in July 2008 and was due to run until June 2012, but both organisations have acted swiftly to extend

their working relationship beyond this date. Funds generated through the agreement will enable Hampshire FA to further invest in grassroots football in the county.

Neil Cassar, chief executive of Hampshire FA, commented, "We are absolutely thrilled that we have been able to renew this agreement as it continues to provide vital support for grassroots football and enables us to be one of the leading county FAs in the country. BSA has proven to be a first class sponsor of grassroots football over the past four years and I hope that we can remain partners for many years to come."

Simon Wilson, director of BSA Tube Runner, said, "We have always taken an interest in the development of young people through sporting activities and we are pleased to be in the fortunate position to be able to continue to help Hampshire FA fulfil their plans with grassroots football."

BSA Tube Runner – UK
Website: www.tuberunner.co.uk

Welding platform

AIR Liquide Welding is the first welding manufacturer to launch a multi-language e-learning platform dedicated to welding and cutting.

Designed with Flash technology, this new platform is available in five languages (English, French, German, Spanish and Italian) to meet international needs for more knowledge in welding and cutting.

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Air Liquide Welding – France
Website: www.welding-courses.net



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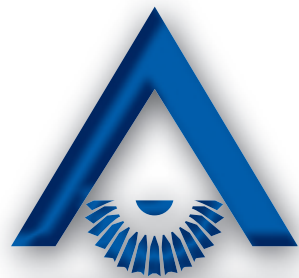
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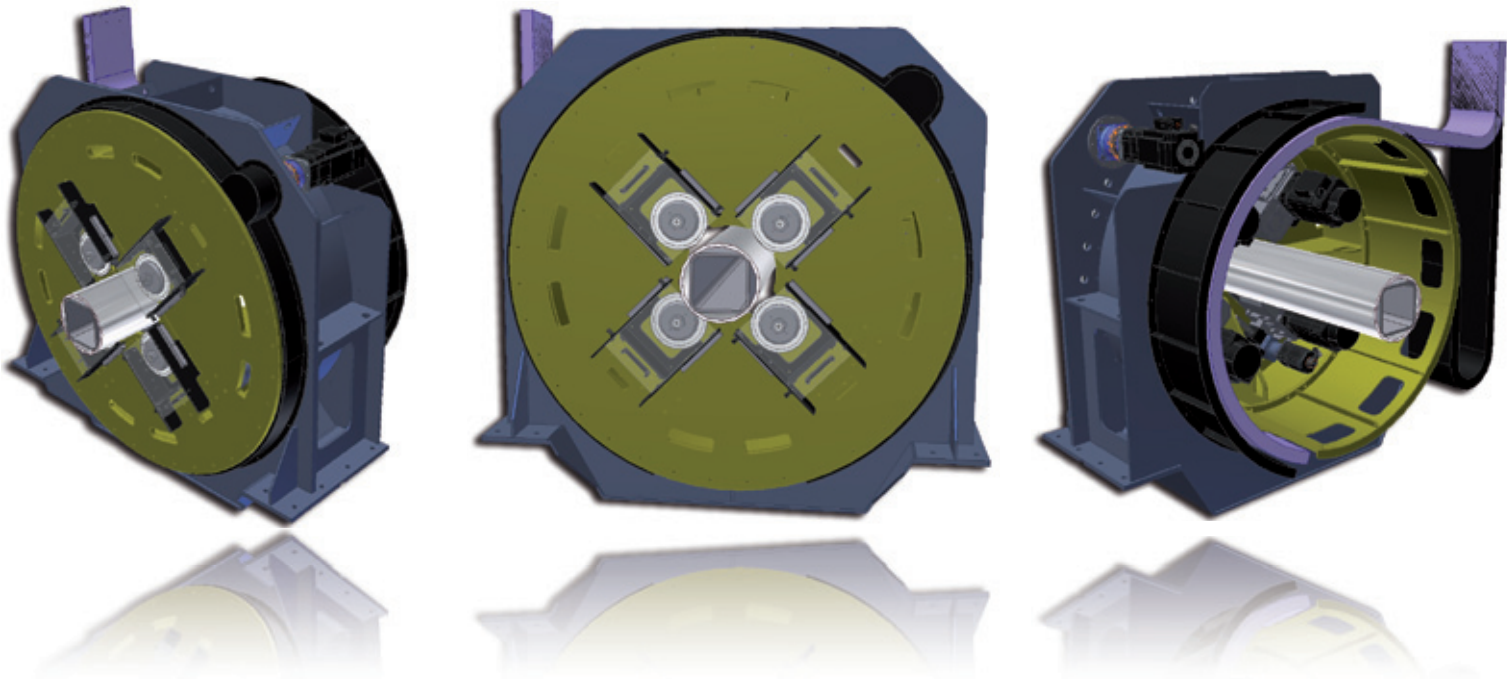
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Hall 06

Stand 6E10



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26th - 30th March 2012

Anticor undertakes expansion of its production capacity

AHMEDABAD-based Arvind Anticor Ltd, a manufacturer and exporter of pickling equipment, has won an order from Kalptaru power transmission limited for a complete pickling plant with fume extraction system (pollution control equipment).

This is third order received by Arvind Anticor Limited from the same client. This pickling equipment is to be supplied to KTPL at their Raipur plant. Along with this order Anticor has won an order to be executed at KEC in their Nagpur, Jabalpur and Jaipur Tower manufacturing and galvanising plant.

Anticor is also planning to invest in and set up a new modern state-of-the-art facility at Devraj Industries park, Piplaj 10km away from Ahmedabad.

The company is actively looking for export opportunities and has executed orders in Iran, Australia, the Phillipines and Bangladesh in recent years. The capacity expansion will get completed at the new facility at the end of March 2012. With this new facility Anticor hopes to capture a significant slice of the domestic and export market by end of 2012.

Arvind Anticor Ltd – India
 Email: info@picklingplant.com
 Website: anticor@rediffmail.com

Pines appoints new director

PINES Technology has appointed Rajab Aghasharif as director of international sales and marketing. Ian Williamson, CEO of the company, announced the appointment and said that Mr Aghasharif's extensive experience in the bending industry will have a significant impact on Pines Technology's expansion plans.

Mr Aghasharif was president/CEO of IBP and represented major overseas manufacturers such as Pedrazzoli, Bema, Osuga and Tauring in North America and Mexico.

He was also director of sales and marketing with PHI, and prior to that was with the H&H tooling division of Teledyne Pines in Denver Colorado as general manager.

Pines Technology – USA
 Fax: +1 440 835 5556
 Email: info@pinestech.com
 Website: www.pinestechology.com



Accumulator



Flattener, Shear End Welder



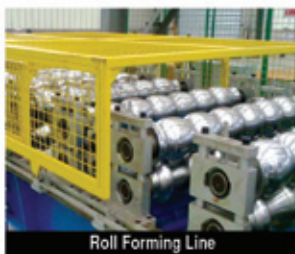
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Roll Forming Line



Pipe End Facer



Pipe Hydrotester



Slitting Line

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www.zumbach.com



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26 - 30 March 2012,
Düsseldorf, Germany
Booth 05 H09

Flexible pipe inspection tool in the Swiss nuclear field

A NEW magnetic wheeled buggy from Phoenix Inspection Systems is providing a fast and flexible way for operators to inspect pipework at a nuclear plant in Mühleberg, Switzerland.

BKW FMB Energy Ltd, which operates the plant, commissioned Phoenix to produce a scanning system suitable for operation on straight pipes and around pipe elbows over the full range of steel pipework.

At the core of the new system is the MagBug, a motorised buggy originally developed by Phoenix for blade root inspection of generator turbine disks. The MagBug module is one-directional and has been supplemented with additional modules to provide both axial and circumferential movement.

While the MagBug drives the scanner along the pipe, a ring attached to it allows scans to be carried out around the pipe,

providing 360 degree surface coverage. Due to access limitations, the profile has been minimised to allow it to operate in areas with clearance of just 80mm. The pipe and elbow scanner can be used on ferritic pipework ranging from 4" to 20" nominal bore and with bend radii down to one and a half times the pipe diameter.

Dr Neil Hankinson, project manager at Phoenix, said: "BKW required an automated scanner for use in a variety of places and on a wide range of pipework sizes. With so many configurations it is not possible to specify all the pipe orientations or the obstructions they may come across. As such they required a modular scanner kit that gave them the flexibility to meet the range of demands they could encounter. The MagBug is a compact, versatile tool which can be used on a range of geometry that might otherwise require multiple scanners."

The magnetic wheeled buggy



BKW is one of the major Swiss energy companies integrated in the European grid. In its home sales area, covering North Western Switzerland from the Alps to the French border, it supplies electricity to a million people. The company also has operations in France, Germany and Italy.

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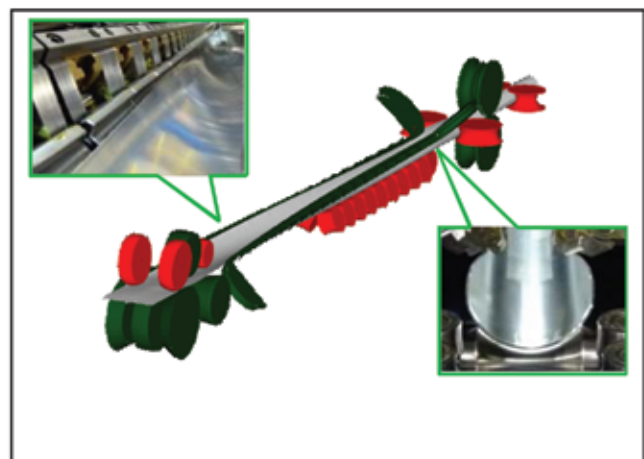
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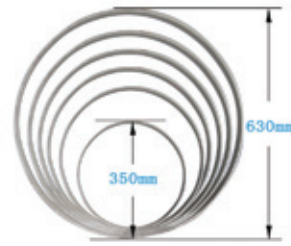
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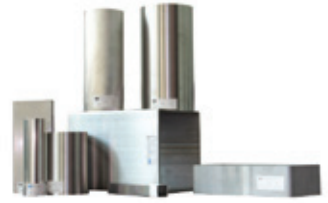


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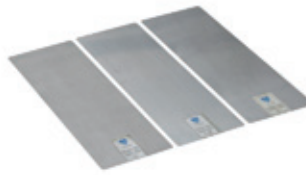
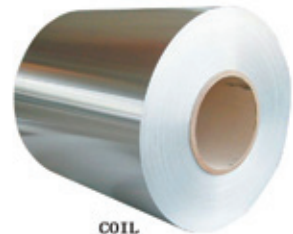


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New CEO for Socotherm

PIPELINE coatings specialist Socotherm Group has appointed Paul DeWeese as chief executive officer.

Mr DeWeese has worked extensively in the area of oilfield services and supplies, initially with Cameron Compression Services (Cooper Cameron), and subsequently with CRC-Evans International, where he was president of the automatic welding division, a supplier to the global pipeline industry.

The controlling shareholders and board members of Socotherm expressed strong enthusiasm with the appointment of Mr DeWeese. Diego Alvarez-Demalde of Sophia Capital said, "Paul's leadership skills and experience in the sector will be critical as we increase further our focus on technology and the competitiveness of our customers." Tighe Noonan of 4D Global Energy stated, "We are confident that his in-depth knowledge of the global pipeline marketplace and strong experience in international sales and manufacturing will help lead Socotherm group through a new phase of growth and technical innovation building on its worldwide presence and multicultural identity."

Socotherm's strategy is to become the world leader in high technology coating, including all special coatings such as thermal insulation and concrete coating for the off shore market. Additionally, Socotherm intends to be the best coating strategic partner and supplier for the leading oil and gas companies, pipe laying contractors and steel pipe producers.

Socotherm SpA – Italy
Email: socotherm@socotherm.com
Website: www.socotherm.com

Engineering firm relocates

ENTECH is committed to reinvesting into every aspect of its business from staff training to state-of-the-art machinery. This, coupled with a record of high quality product manufacture and efficient and personal service, has ensured the company's managed and sustainable expansion. The success has paved the way for 2012, which sees its most recent milestone achieved.

Having outgrown its premises the business decided to relocate to a significantly larger, purpose-built unit. The new site, situated at the Blackpool, UK end of the M55 motorway, has the advantage of providing increased accessibility to both customers and suppliers. The move also offers opportunities for the acquisition of additional machinery, the recruitment of more apprentices and ultimately a substantial increase in the volume of work Entech is able to process.

Entech Engineering Ltd – UK
Email: garth@entechengineering.co.uk
Website: www.entechengineering.co.uk



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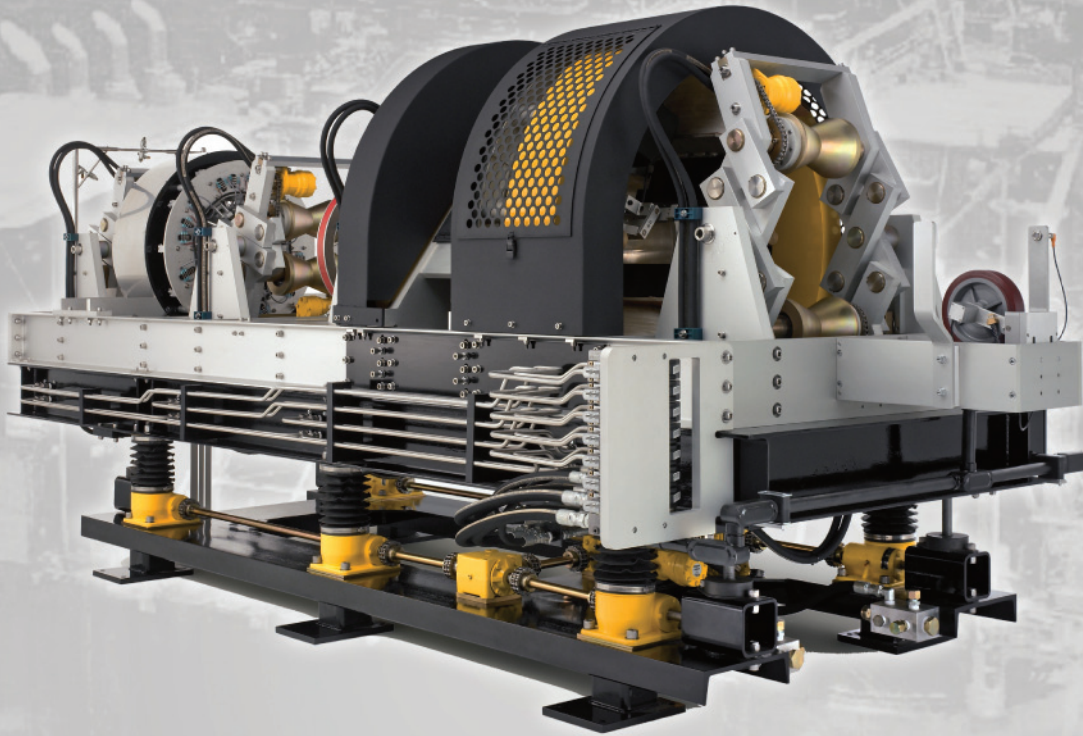
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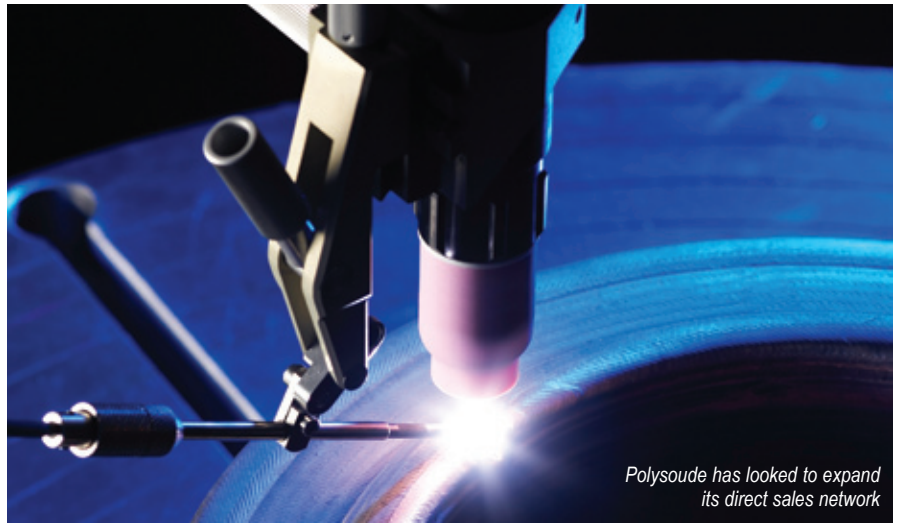
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Polysoude expands sales network

FOLLOWING the recent Brazil Welding show, Polysoude has announced the official opening of a new sales office in São Paulo, thus gaining foothold on the international market in terms of sales and services. With 85 per cent of annual sales to the export market, the opening of an office on the South American continent is a contributing factor underlining the group's constant growth.

The Polysoude group currently employs 300 people worldwide, 150 based at its head office in Nantes and 150 working at its 13 affiliated subsidiaries and offices around the world. This allocation of human resources is a demonstration of the ambition that the Polysoude group has to reinforce its international presence. The TIG orbital, mechanised welding and cladding market is regarded as a niche market.

Nevertheless, this technology has made a mark in many industries such as food, pharmaceutical, aerospace, chemical and biochemical just to mention a few. The energy



Polysoude has looked to expand its direct sales network

production and transporting sector has added to the continual expansion of its process and product range. Indeed, this highly dynamic sector is incessantly in search of everlasting modernised, state-of-the-art equipment in order to meet demanding future market

needs. In addition, standards on carbon dioxide emanations have driven industrialists to go beyond technical limits in effect.

In order to face this ongoing change, the group has focused its applications and its sales organisation on several areas: expansion of its direct sales network in emerging countries such as China, India and now Brazil; product design and process development, in particular. In the sector of electrical power plants narrow gap welding for gas turbines, primary circuit welding in the nuclear industry; cladding for first fit and maintenance; systematic use of TIG hot wire process: a technology permitting an increase in productivity up to 300% compared to the standard TIG cold wire process.

Of course, European countries continue to play an important role. For example Germany, known for its excellent economic results, a country which alone holds a 50% market share in the European tubing industry. Polysoude has recently reinforced its presence in the south of Germany with the opening of a subsidiary and a second office, in the north of the country.

Concerning the North American market, Astro Arc Polysoude, Inc, Encompass Machines, Inc and the Polysoude group announced a strategic alliance in October last year. Astro Arc Polysoude has relocated its USA headquarters and new manufacturing facility to larger premises. Underway are immediate, joint strategic projects related to power generation in the USA and China.

Polysoude – France
Website: www.polysoude.com



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OFFSHORE: GeKa ELOX R 2209 (E 2209-17), GeKa TEMPO B W2 (E 8018-G-W2 H4), GeKa ELCOR R 81 NiCu (E 81T1-G), GeKa ELOXCOR S 2209 (E2209T1-11-4)

PIPELINE: GeKa LINK 4010 (E 4010), GeKa LINK 7010-G (E 7010-P1), GeKa LINK 8010-G (E 8010-P1)

PRESSURE VESSEL: GeKa LASER B 47 (E 7018), GeKa LASER B55 (E 7018-1), GeKa SG2 (ER705-6), GeKa SG3, GeKa ELCOR B 70 (E70T-5M J), GeKa ELCOR R 71 (E71T-1C), GeKa ELIFLUX BFB / GeKa S2 (F7A2-EM12/EL12)

BRIDGE BUILDING: GeKa TEMPO NiCu (E7018-W1(mod)), GeKa TEMPO B W2 (E 8018-G-W2 H4), GeKa ELCOR R 81NiCu (E 81T1-G)

STEEL CONSTRUCTION: GeKa LASER B 47 (E 7018), GeKa LASER B 50 (E 7018-1), GeKa SG2 (ER705-6), GeKa ELCOR R 71 (E71T-1C), GeKa ELCOR M 70 (E70C-6M), GeKa ELIFLUX BFB / GeKa S2 (F7A2-EM12/EL12)

POWER PLANT: GeKa ELOX R 308 L (E 308 L-16), GeKa OPUS MOB (E 7018-A1), GeKa SGMo (ER805-G), GeKa ELOX SG 308 LS (ER308LS), GeKa ELOX SG 310 (ER 310), GeKa ELCOR R Mo (E81T1-A1C), GeKa ELIFLUX BFB / GeKa S2Mo (F8A4-EA2-AZ)

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Brandt set to boost staff levels

BRANDT Group of companies has announced that it is seeking to fill more than 300 new positions within its five divisions as a result of growth, despite a challenging global economy.

Positions available for immediate hire include service technicians, trades, engineers, sales, customer support, management, manufacturing and administration.

Brandt is actively recruiting across Canada, the US and internationally, looking to add key people to its team.

Brandt president Shaun Semple commented: "In a time where news of job losses and lay-offs seem commonplace, Brandt is bucking the trend, managing to succeed and add hundreds of quality, full-time positions to our team despite

challenging economic realities. Brandt offers hope and prosperity to those seeking a better opportunity with a strong, growing company."

Brandt is a Canadian success story with an 80-year history of growth and innovation, and is one of Canada's largest privately owned companies. The company has become a major player in a variety of business sectors including industrial equipment sales and service, agricultural equipment manufacturing, specialised railroad maintenance equipment, and mining and tube and pipe equipment. Brandt has consistently been recognised as one of Canada's 50 best-managed companies.

The company has launched an innovative multimedia campaign to direct interested applicants to visit brandtjobs.com for a complete list of available positions.

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Changes at the top

DR Kay Mayland, president and CEO of SMS Siemag AG and member of the managing board of SMS Holding GmbH, retired on the expiry of his contract on 31 December 2011, and took a seat on the supervisory board of SMS Siemag AG.

As of 1 January 2012, Burkhard Dahmen, member of the managing board of steelmaking plants/continuous casting technology of SMS Siemag AG, took on the role of president and CEO of SMS Siemag AG, and simultaneously became a board member of SMS Holding GmbH.

His successor on the board of SMS Siemag AG is Dr Guido Kleinschmidt, a management member of the steelmaking plants/continuous casting technology division of SMS Siemag AG.

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Trade fair catalogue design is clear, colourful and informative

THE official catalogue produced for Tube 2012 offers trade visitors concentrated information on exhibitors, their products and locations during the trade fair, and also offers invaluable information for exhibitors who would like to gather information on

competitors and products. The catalogue is available individually or in a package (wire and Tube). They can be pre-ordered by way of voucher through Verlag Neureuter Publishing House in the Online-Shop (Ticket-Shop) of the Internet portals at www.wire.de

and www.tube.de, and be picked up during the trade fairs at the ticket offices at the trade fair entrances and at the information stands in the display halls. The advance mailing service has been discontinued.

Visitors who do not wish to take advantage of the advance order service may also buy their catalogues directly at the ticket offices and the information stands.

Exhibitors and brands are categorised alphabetically, and hall guides visualise the locations of exhibiting companies. Product categories and an alphabetical advertiser listing round off the content of the trade fair catalogues that can be as thick as 900 pages. The individual catalogue is €28.00; the package (both catalogues) is available for a price of €50. CDs are not being offered.

Exhibitors will receive their catalogues together with their welcome package on the first trade fair day from the hall runners. In addition, they may also order their catalogues in advance by using the Messe Düsseldorf OOS (online order system).

Messe Düsseldorf – Germany
Website: www.tube.de

Offshore pipeline

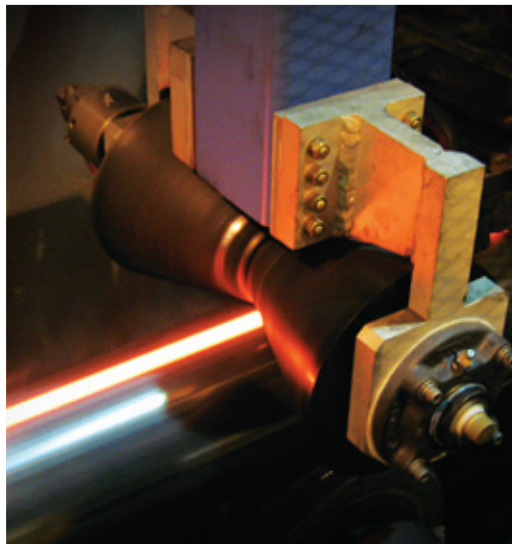
TMK, a manufacturer and supplier of steel pipes for the oil and gas industry, has shipped seamless line pipe to Gazprom to develop the offshore pipeline at the Kirinskoye gas condensate field on the Sakhalin Island shelf.

The technical specifications of seamless line pipe for the Kirinskoye field were developed jointly with Gazprom's R&D division in accordance with the Russian gas monopoly requirements, which are stricter than international standards for offshore pipelines, including the DNV-OS-F101 standard.

TMK – Russia
Website: www.tmk-group.com

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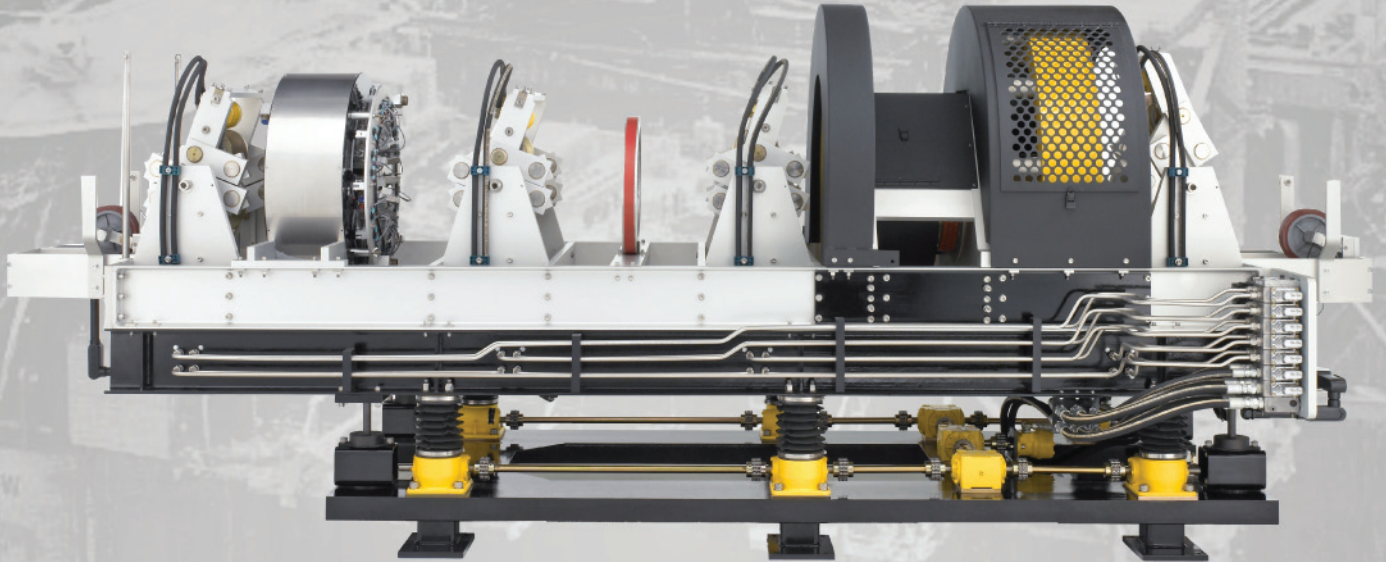
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Excellence commended at Industry Awards

EVER since its first gauge was introduced to the market in 1947, Elcometer has followed a philosophy of designing products that are rugged, reliable and durable as well as being ergonomic and fit for purpose.

Elcometer believes that its newest product range, the Elcometer 456, launched early 2011, is its best design yet. Elcometer's belief has recently been officially justified. The 2011 Plastics Industry Awards, which took place in London, commended the Elcometer 456 for its design excellence.

Known as the 'Oscars of the UK plastic industry', the Plastics Industry Awards offers an insight into current developments in materials usage, product design and innovative manufacturing. The rugged design of the new Elcometer 456 ensures that it is dust and water resistant and designed for heavy-duty use making it ideal for all environments.

Elcometer – UK
Fax: +44 161 3716010
Email: sales@elcometer.com
Website: www.elcometer456.com

Technip awarded contract by Nexen

TECHNIP has been awarded by Nexen Petroleum UK Limited a lump sum contract, worth approximately €135mn, for the Golden Eagle development located 110Km North-east of Aberdeen in 115m of water.

This contract is the largest ever awarded to Technip for a project in the United Kingdom Continental Shelf and features the reeling of mechanically lined pipe, which provides a cost effective alternative for high temperature, highly corrosive materials.

This contract covers the engineering, procurement, installation and commissioning of: two export, one production, one mechanically lined water injection and one gas lift flowlines; one main umbilical and two subsea isolation valve umbilicals; subsea equipment; trenching and backfilling of all flowlines and umbilicals; tie-ins, protection, pre-commissioning and commissioning support.

Bill Morrice, managing director of Technip in the UK, said: "This award is extremely exciting for us as it represents a key milestone in terms of contract size. We very much look forward to working with Nexen and to playing a significant part in this important field development."

Technip's operating centre in Aberdeen, Scotland will execute the project, which is scheduled to be completed in the second half of 2014.

Genesis, Technip's consultancy subsea and offshore engineering company, will complete the detailed design workscope.

The flowlines will be manufactured at Technip's flexible pipe plant in Le Trait, France. The Group's umbilical manufacturer in Newcastle, UK, Duco, will provide the umbilicals, and vessels from the Technip fleet will be used for the offshore campaign, including Apache II and Orelia.

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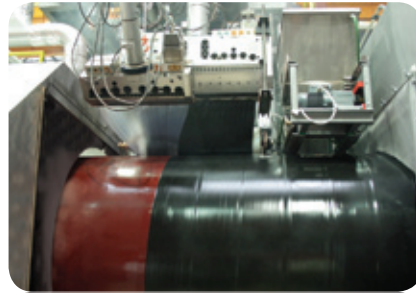
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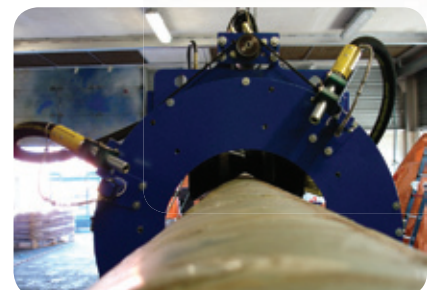
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Walter appoints president

TOOLING company Walter has appointed Mirko Merlo as president of the company, as of 1 January 2012. He succeeds Andreas Evertz, who becomes president of Sandvik Machining Solutions.

Formerly a member of the Walter Board as executive vice president, the 47-year-old Italian has been with the company for 27 years serving in a number of roles, including being responsible for operations

in the UK, Brazil and Italy, and he was president of the Western Europe region.

"I am very much looking forward to my new responsibilities," said Mr Mirko. "In recent years, Walter has developed into an international company with subsidiaries in all the important markets of the world. We are ideally placed to master the challenges of the future and further expand our position as competence leader in machining."

Mr Evertz added: "Mirko's many years of experience at Walter, his comprehensive knowledge in metalworking and his international experience in various management positions have given him a high professional standing in the industry."

Mr Evertz remains closely connected with Walter in his new role. The 42-year-old was appointed to director of technology at Walter in 2008.

Walter GB Ltd – UK

Email: service.gb@walter-tools.com

Website: www.walter-tools.com

BORU 2013

THE 8th International Tube, Pipe, Fittings And Machinery Fair will be held between 28 and 30 March 2013. There are some new sections and regulations about the fair, which the organisers are pleased to announce to all industry colleagues.

The target regions for the event are Turkey, North Africa, the Middle East, Turkic Republics and Eastern Europe and it will include two new sections: iron and steel (flat products); and OCTG and pipeline technology, with a concurrent technical conference at the same venue. A new website, which will be updated frequently, will be available as of April 2012. Event organisers Ihlas Fuar will be exhibiting at Tube Düsseldorf in March, at stand 06F18.

Ihlas Fuar AS – Turkey

Email: info@ihlasfuar.com

Website: www.borufair.com

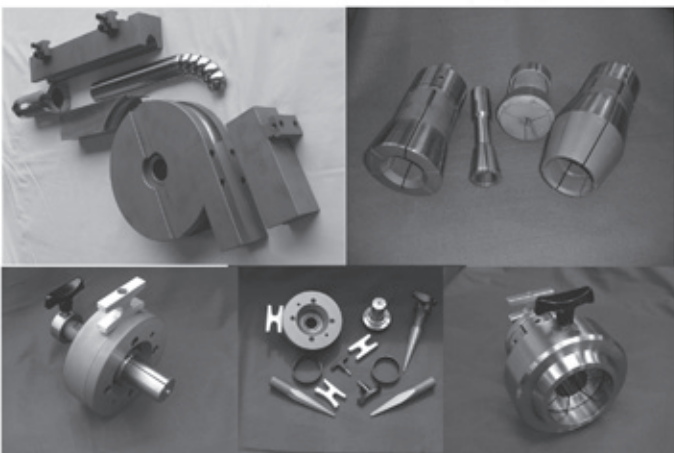
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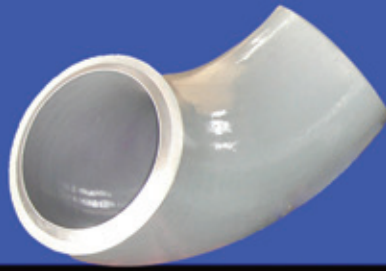
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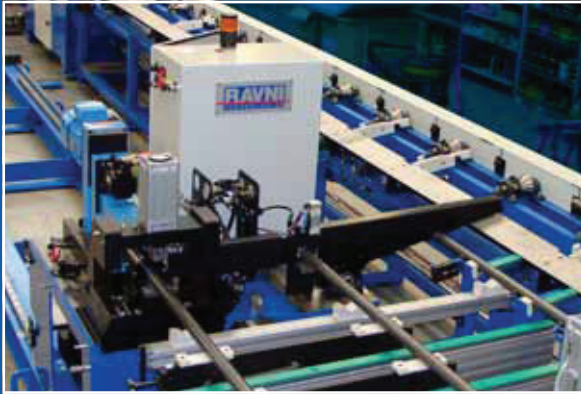
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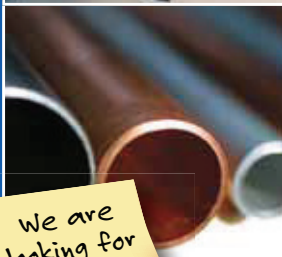


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Trial facility for plasma annealing

PLASMAIT GmbH, a supplier of plasma heat and surface treatment lines for wire, tube and strip production, has opened a dedicated test facility for continuous annealing and cleaning of tubes. Tube manufacturers are welcome to test plasma heat and surface treatment on their materials at Plasmait's facility in Lebring, Austria.

The plasma treatment facility has been designed to perform heat treatment, degreasing and deoxidation on a wide range of ferrous and non-ferrous materials with OD range between 0.1 and 10mm. Plasmait has successfully performed trials on copper, copper alloy, stainless steel and nickel alloy tubes.

According to Plasmait's R&D director, Peter Ziger, the dedicated tube trial facility is now available to all tube manufacturers who strive to improve the quality of their tubular products. Plasma treatment will most benefit applications with demanding surface quality requirements or challenging annealing requirements. Such applications are usually found in sectors such as medical, precision mechanical, electronics, aerospace and energy sectors.

Other tube manufacturers may want to consider plasma annealing to reduce energy use or purging gas consumption, or to replace chemical surface treatments with dry, chemical-free degreasing, surface cleaning or deoxidation. Manufacturers of coated tubular products may find plasma surface preparation prior to coating or metallic plating an area of potential interest. Since the introduction of plasma heat and surface treatment process in the wire industry in 2003, Plasmait has continuously improved the process and widened the application scope to include annealing and surface treatment of tubes and flat products.

Plasmait GmbH – Austria

Email: info@plasmait.com

Website: www.plasmait.com



Plasmait's test facility

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Laser firm impresses local MP

THE growth of Staffordshire, UK-based laser cutting expert SSC Laser Cutting has been described as "a fantastic achievement" by the firm's parliamentary representative. Jeremy Lefroy, Conservative MP for Stafford, visited SSC's Hixon headquarters in November to see first-hand the levels of investment and expansion the company has made over the last two years.

The firm, which specialises in sub contract laser profiling and also provides press-braking, laser scanning and an in-house CAD service, has sales offices around the UK and recently established a new manufacturing site in Derby. The new factory, which will initially employ ten people, is viewed by the firm as just the start of an ambitious investment plan that will see the business rolled out into every major city in the UK over the next ten years.

SSC announced record turnover of over £5mn at the end of August 2011, and the firm anticipates even more lucrative years in

the near future as its expansion bears fruit. £1.7mn has been invested in the company over the last two trading years, with recent additions including a brand new Adige LT8 tube laser and two new Bystronic BySpeed Pro 3015 flat bed lasers, one of which will be installed at the new Derby site.

Following Mr Lefroy's tour of the Hixon factory he stated that the success of SSC Laser shows that UK manufacturing is on the up: "I am so impressed with the passion they have for what they do at SSC Laser. [The company] has a clear vision and focuses on its core business of laser profiling. Its level of investment on new laser technology over the past two years is proof that UK manufacturing is on the increase. It shows that if companies take the opportunity to invest they will grow and become more profitable. SSC Laser's organic growth over the past few years is a fantastic achievement."

Mr Lefroy, who became Stafford's



Jeremy Lefroy MP (second from right), with SSC Laser's Austin Jarrett, David Gallear and Andy Evans

representative in Parliament at the last election, spent the morning touring the facilities at the 28,000ft² Hangar 5 facility, which is in operation 24 hours a day to keep the capacity available for quick turnaround.

SSC Laser Cutting – UK

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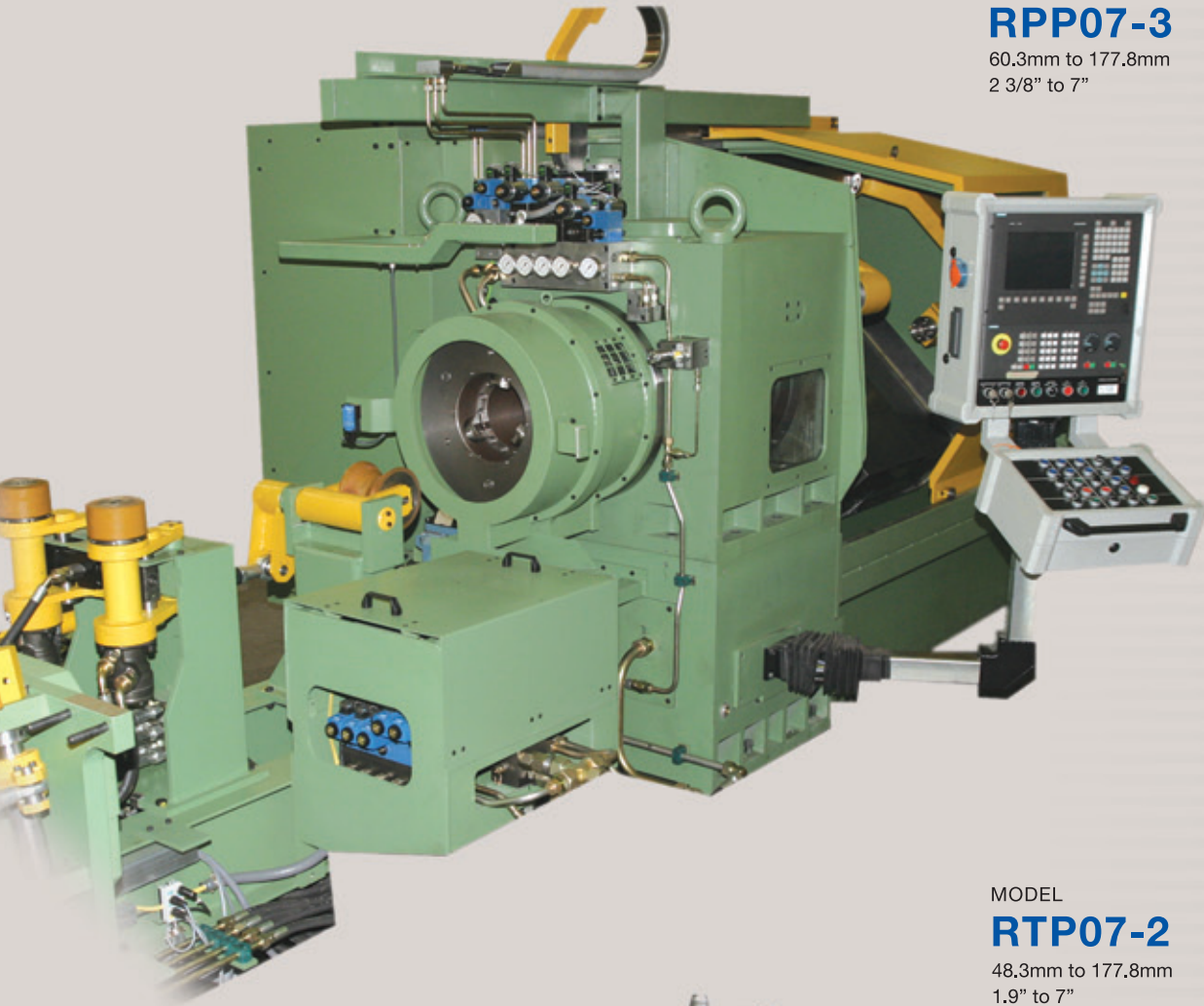
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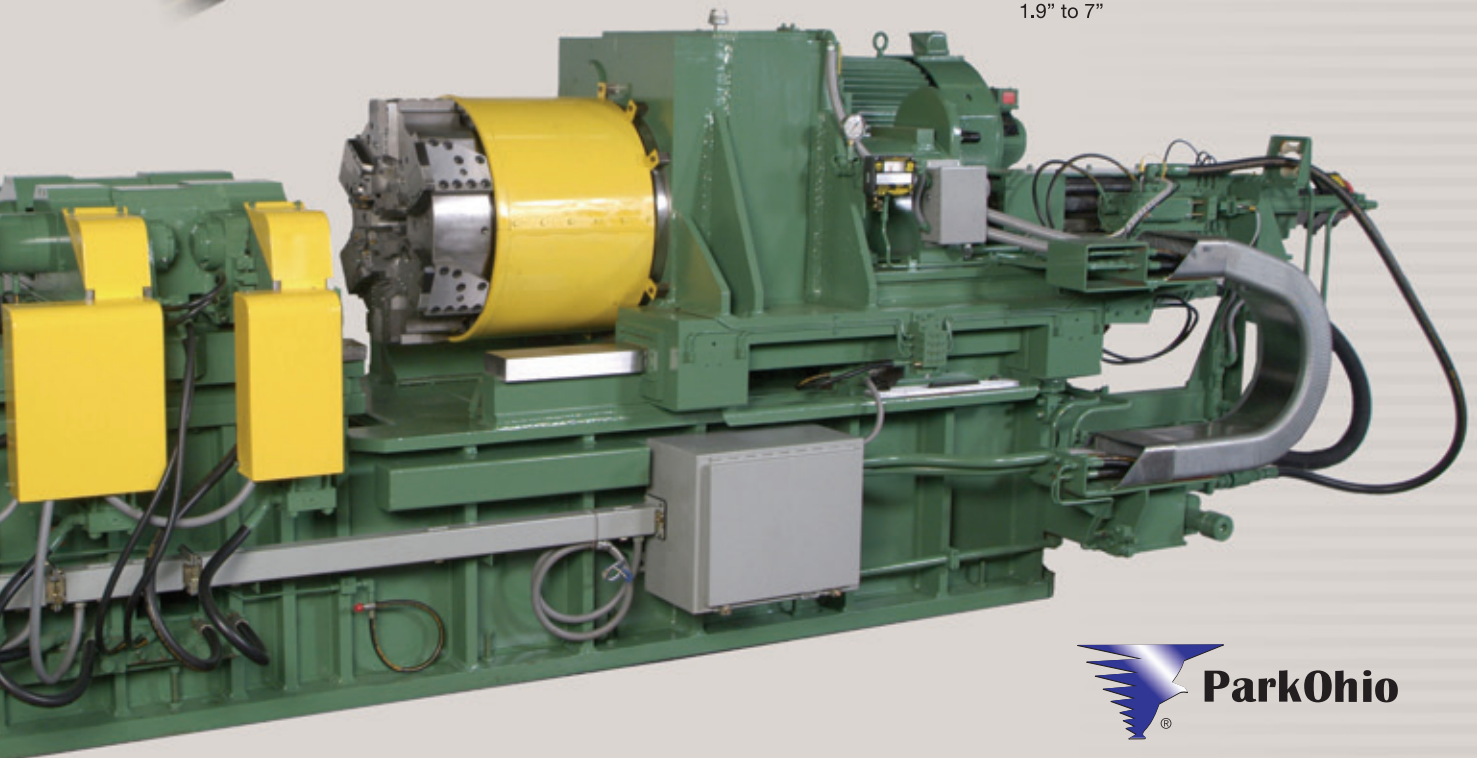
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Pipeline problems met by AUMA

A ROBUST actuation solution capable of performing at high altitudes has been supplied by AUMA to the Collahuasi copper mine in a mountainous region of northern Chile. Sixty modular electric actuators automate valves controlling materials that travel through pipelines starting 4,300m above sea level.

The mine is one of the world's largest non-ferrous projects, set in an area with a rich copper mining history. Commissioned in 1999, an expansion programme at the mine has given a long-term capacity of 500,000 t/yr of copper.

Process facilities include a 60,000tpa sulphide concentrator and a 50,000tpa cathode copper oxide heap leach-SX-EW facility. After grinding, the ore is treated by flotation and concentrate regrinding to produce a high grade concentrate that is transported 200km in a slurry pipeline from the mine to a port. AUMA's actuators with three phase AC motors and gearboxes are installed at the pipeline's 'choke station', so-



AUMA's modular actuators support copper mines in the Collahuasi mountains

called because material needs to be slowed down after it has accelerated in transit.

Challenges met by AUMA's actuators included climatic environmental conditions, very low temperatures at night and extremely high temperatures during the day. Economical three phase motors carrying alternating currents and corrosion protection were important product features

that benefited the application. A track record for AUMA supplying modular electric actuators for mining installations includes an installation at the 'Los Bronces' mine, also located in Chile.

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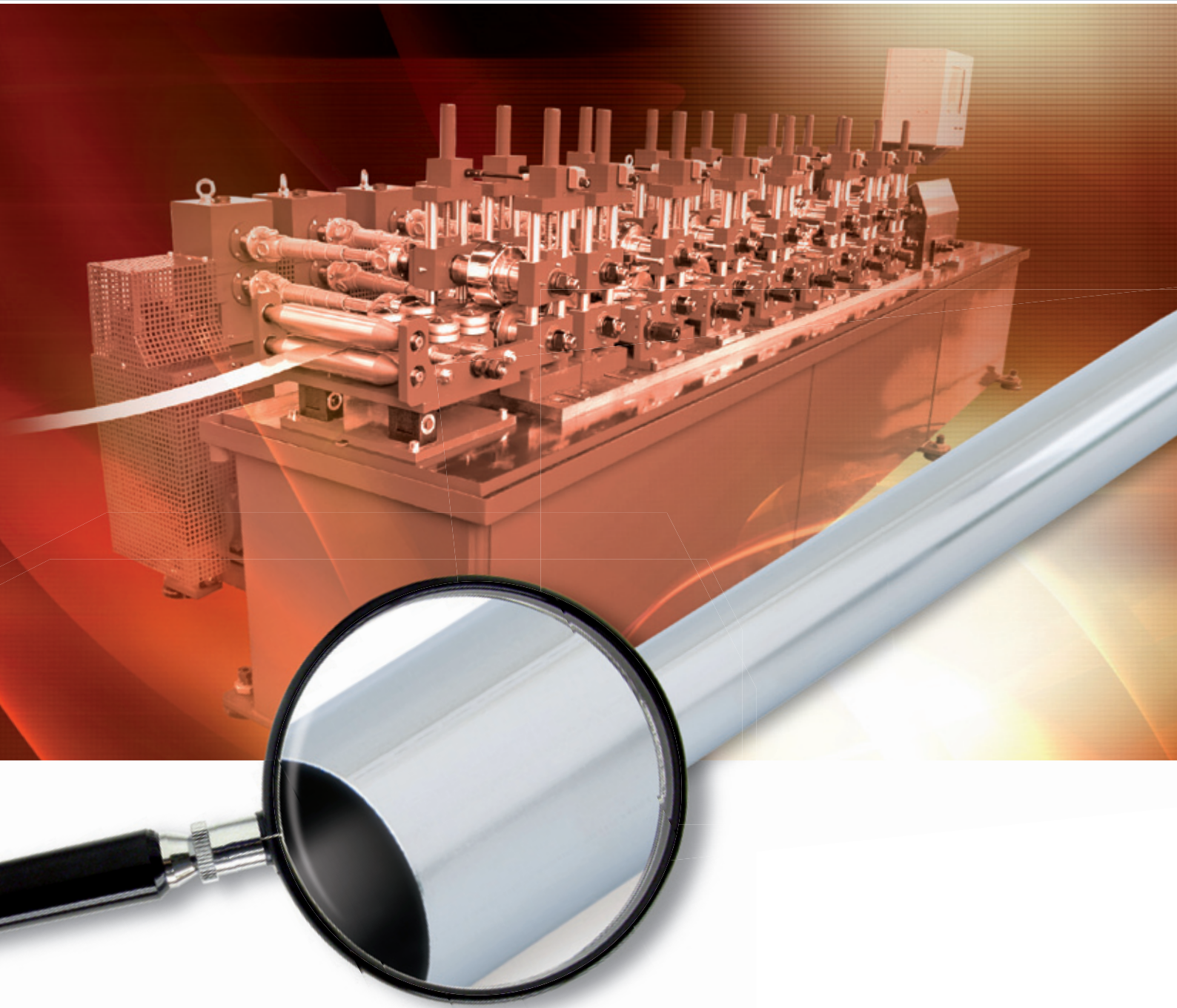
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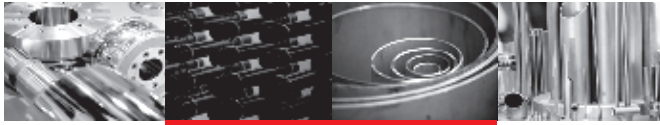
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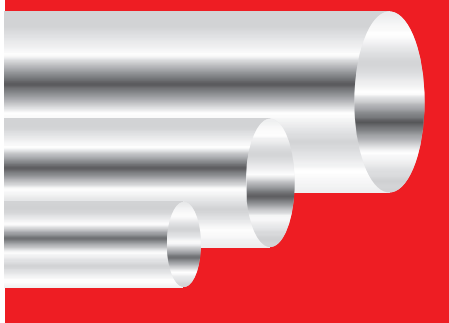
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Expanded tube tool line for preparing tube

SWAGELOK has added five new tools to its equipment product line to complement its orbital welding equipment and tubing offering. Designed for portability and ease of use, the expanded product selection includes four new tube facing tools and one cutting tool. The tools are intended for use with 316 stainless steel, carbon steel, titanium, and most nickel-based alloys.

The new tube facing tools produce flat, smooth, square, burr-free and chamfer-free tube ends. Available in four different sizes, the tools feature high-performance, coated tool bits with two cutting edges, built-in electronic speed regulation, and a quick change collet system that requires no tools to change sizes.

The new tools include TF16 for preparation of thin-walled tubing from 3 to 25mm ($\frac{1}{8}$ " to 1") OD, available in both electric and cordless versions; TF24 for preparation of thin-walled tubing from 3 to 38mm ($\frac{1}{8}$ " to $\frac{1}{2}$ ") OD, available in both electric and cordless versions, including a 90° angle option; TF40 for preparation of thin-walled tubing from 6 to 63mm ($\frac{1}{4}$ " to $2\frac{1}{2}$ ") OD, also available in both electric and cordless versions, including an angled version; and TF72 – the largest size – for preparation of thin-walled tubing from 12 to 114.3mm ($\frac{1}{2}$ " to $4\frac{1}{2}$ ") OD, available in an electric version.

The new TC72 tool is for cutting thin-walled tubing and elbows up to 114.3mm ($4\frac{1}{2}$ "). With an integrated laser pointer to determine the cut-off point and integrated clamping jaws constructed from hardened aluminium-cast, the TC72 is designed for easy tube preparation with square and burr-free ends.

More information, including catalogues and user manuals, can be found on the company's website.

Swagelok Company – USA

Website: www.swagelok.com



TC72 cutting tools

HGG uses holidays to finish installation of RBPC 2000

THE year 2011 was a busy one for HGG. Both the contracting and machine building division have shown great results. Where the contracting division, however, had a

week off between Christmas and New Year, the machine building division, especially the international engineers, was still working on the installation of machines.

One of the machines to be installed was an RBPC 2000, recently bought by Penglai Jutal Offshore Engineering (PJOE). PJOE bought this highly specialised machine for cutting the big diameter pipes which will be used in the construction of jackets. The PJOE yard is located in Penglai, China and specialises in the fabrication of heavy steel structures and process facilities for the energy, mining and oil and gas upstream industry. The purchase was not the first HGG pipe cutting machine to be bought by PJOE. In 2005 PJOE bought an RBPC 1500, complete with an in- and outfeed conveyor. The performance of this RBPC and the cooperation with HGG made PJOE decide to buy an HGG cutting machine once again.

Condenser tubes

AMI Dutchmetals, based in Apeldoorn, The Netherlands, is a European supplier of condenser tubes in copper and copper nickel alloys. Huayu Non-Ferrous Metal Industries of Zhangjiagang, China produces seamless and welded titanium tubes, as well as pure nickel and nickel alloy seamless tubes, following the introduction and commissioning of new production lines last year. AMI Dutchmetals is the exclusive European representative for all Huayu Non-Ferrous Metal Industries tube products. The mill benefits from full TUV certification, possessing ISO 9001, ISO 14001 and PED accreditation.

Apeldoorn Metals International BV – The Netherlands
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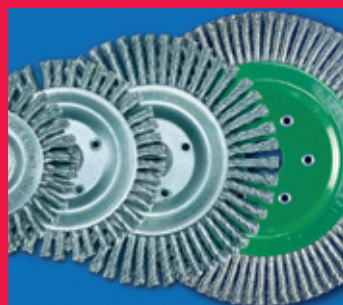
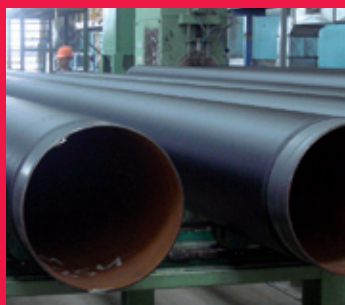


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International design award

KEMPPI has won the esteemed international iF Product Design Award 2012 in the industrial product design category with its new Kempact RA product family.

The iF product design award competition is one of the oldest and best known design

competitions in the world. The competition is hosted every year by iF Industrie Forum Design EV in Germany, bringing together a jury of international design experts, to test and evaluate the products entered and for almost 60 years has been recognised as

a hallmark of design excellence all over the world. The Kempact RA product range is a complete new standard for compact MIG/MAG machines meeting the needs of today's welding workshops with a uniquely elegant and practical design. The main features emphasise high quality and customer benefits, making welding more efficient, accurate and productive.

A user survey was used as part of the product design project with users being observed and interviewed in a number of countries and working environments, helping Kempact to produce a welding machine that easily adapts to different needs.

From a design viewpoint, Kempact RA introduces several new innovations ranging from its design form to the new and inventive way the operator has access to the equipment, all with the user's comfort in mind.

Kemppi Oy – Finland
Website: www.kemppi.com

Machinery investment

MST Seamless Tube & Pipe is a manufacturer of carbon and alloy seamless cold-drawn pipe and tube for a variety of industry applications, including aircraft and aerospace; mining and construction; automotive; and agriculture. The company operates a 320,000ft² manufacturing facility on 60 acres in South Lyon, Michigan, USA.

MST is investing in its state-of-the-art manufacturing facility by adding a quench and temper heat treat line. MST has produced quenched-and-tempered products for many years, but bringing the process in-house will result in significant efficiencies and more control of product quality. The \$4.5mn capital expenditure will create cost efficiencies for the quench and temper process and enable MST to improve delivery performance.

MST Seamless Tube & Pipe – USA
Website: www.mstube.com

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Pipeline project

PARNON Gathering Inc, a wholly owned subsidiary of Parnon Holdings, Inc, has announced the construction of a crude oil pipeline in Central Oklahoma. The project includes laying approximately 109 miles of new 8" pipeline from Cherokee, Oklahoma to Cushing, Oklahoma, and is designed to move 18,000 barrels of crude oil per day, with an option to increase to 35,000 barrels per day.

The pipeline, to be named Great Salt Plains Pipeline, will transport production from Central and Western Oklahoma and interconnect with Parnon's crude oil tanks located at Cushing.

With right-of-way negotiations well advanced and pipe order confirmed, the line is scheduled to commission in March. In response to interest from producers with acreage in Western Oklahoma, plans are being prepared to extend the Great Salt Plains Pipeline (Phase II) further west to serve the Granite Wash and other new tight sands plays. As sufficient interest and commitment to this extension is confirmed, the second phase of the project will run concurrently with Phase I, and could commission as soon as mid-2012.

Parnon Gathering Inc – USA
Website: www.parnonholdings.com

Good earnings

THE Simona Group recorded growth both in terms of sales volumes and revenues over the course of the third quarter of 2011. However, the overall pace of growth has decelerated. This is attributable primarily to the bank and national debt crisis, which has been a cause for increasing concern within the markets since mid-2011. Market uncertainty, in turn, generally has an adverse effect on the propensity to invest within key customer segments, particularly the photovoltaic and solar energy industry. In total, the Group generated sales revenue of €241.2mn (prev. year: €199.7mn) in the financial year up to 30 September 2011, which was 20.8 per cent more than in the same period a year ago. In the first half of 2011, by contrast, year-on-year revenue growth had stood at 25.1 per cent. In the third quarter of 2011, Group revenue amounted to €78.9mn, compared to €70mn in the third quarter of 2010. This corresponds to an increase of 12.8 per cent.

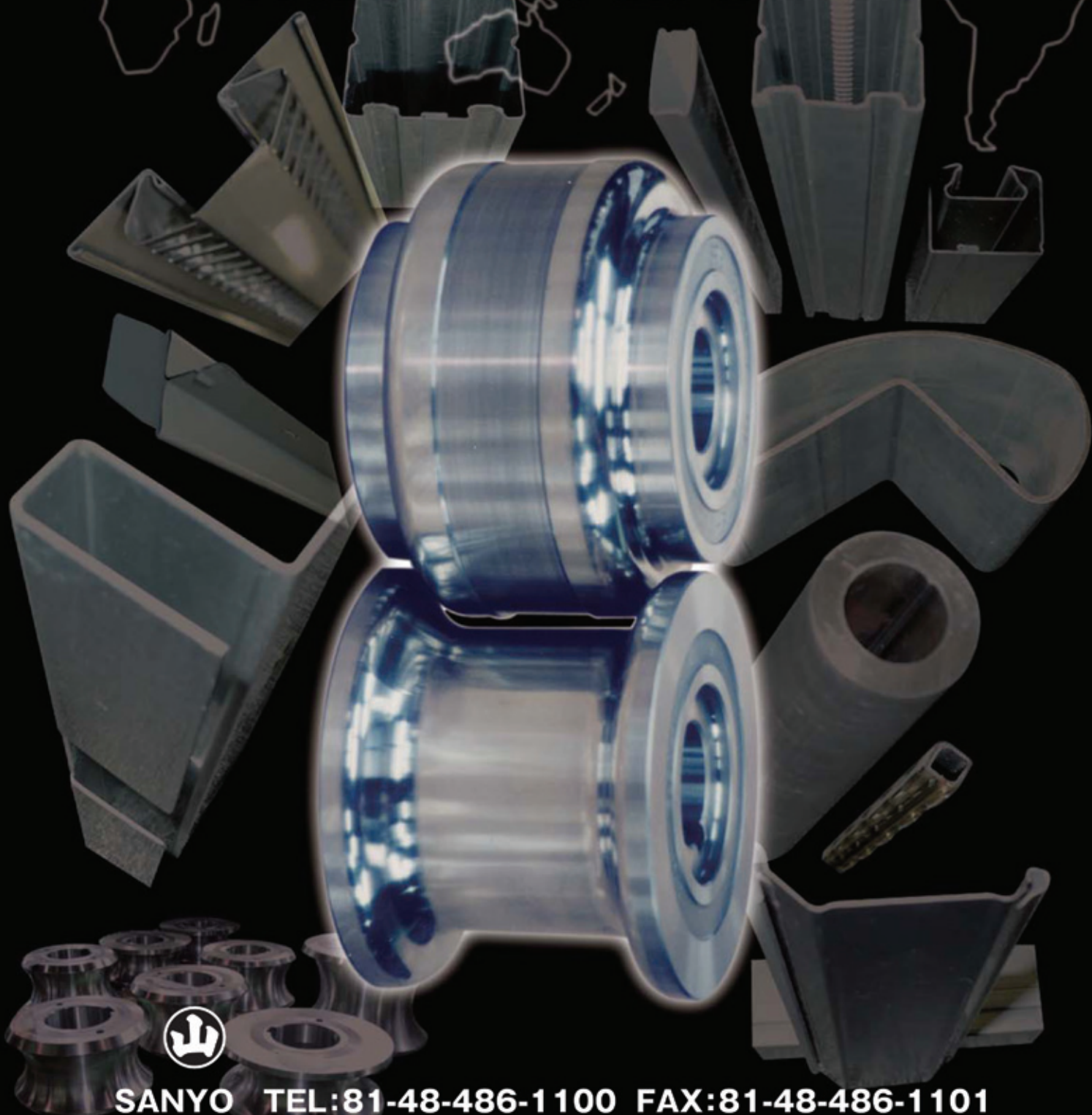
Within the area of semi-finished products, extruded and pressed sheets made of polypropylene achieved the highest level of growth. Business expanded at a less pronounced rate within the area of PVC sheets. In the piping systems division, fittings made of PE generated significant revenue growth, whereas revenue from PE pipes declined.

Simona – Germany
Website: www.simona.de

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Metalube expands with new office in India

TUBE drawing lubricants specialist, Metalube, has opened an office in Mumbai, India. This strategic move is part of Metalube's ongoing international expansion plan, exporting to over 70 countries worldwide, including an operating business in Shanghai, China.

India is viewed as a key market for the business and the new operation will be lead by Amit Gupte who joins Metalube from Savita Oil Technologies Ltd. Amit has 14 years of experience within the lubricants industry and will work closely alongside new distributors Wirex Dies & Steel India Pvt Ltd, responsible for India's Northern and Eastern regions, and Walso Industrial Supplies PVT Ltd for the Western and Southern regions.

Wirex and Walson will now be fully responsible for all of Metalube's Indian distribution. Metalube has undergone

significant changes in the last few months with a recent management buy-in, introducing three new directors into the business. The new team has both commercial and technical experience within the lubricants industry and company founder David Lee continues as managing director.

Mr Lee said: "We have big ambitions for Metalube and the opening of Metalube India is just the beginning. The Indian operation currently offers marketing and technical services along with a product-testing laboratory, but we have plans to also manufacture lubricants from the Mumbai site.

"Our aim is to continue to provide the best possible products and services but to also expand our range and grow our client base worldwide."

Metalube specialises in wire and tube drawing lubricants, working with wire,

Metalube's offices are located in Mumbai, India



cabling and tubing manufacturers across the world. The headquarters are in Manchester, UK, where the site incorporates offices with warehousing, laboratories and manufacturing facilities.

Metalube – India

Email: post@metalube.co.uk

Website: www.metalube.co.uk

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WWW.ETNA.COM
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1-800-229-ETNA (3862)

ETNA-BEICHEM
Europe GmbH

WWW.BEICHEM.DE
49 2331 935 0 GmbH

3M makes distributor appointment



Simon Harris (IDHL) and Paul Woolvine (3M)

service life. As well as products, IDHL customers can access support from experienced consultants located across the UK. In addition to standard products, IDHL stocks 3M products that are usually only available as 'made to order' items, allowing greater flexibility in purchasing decisions.

Maria Reed of 3M Corrosion Protection Products commented, "IDHL is a young and dynamic company committed to working with 3M to help meet and exceed customer needs in the water sector. We look forward to a long and successful association with them."

Rebecca Harris of IDHL added, "We're delighted to have secured this distributorship and to be serving our growing customer base with 3M products backed by our own dedicated technical support."

DIVERSIFIED technology company 3M has appointed a new distributor for its range of Scotchkote Coating products. The Scotchkote range provides long-term protective coating solutions for assets operating in a range of industry sectors. IDHL, based in Gloucestershire, UK, is

3M's first authorised partner in the UK for its full range of Scotchkote Coating products, which can provide the water industry with the ability to protect the interiors and exteriors of metal water service pipes, tanks, pumps and valves, to prevent corrosion build-up and extend

3M Corrosion Protection Products – UK
Website: www.3m.co.uk/scotchkote

IDHL – UK
Website: www.idhl.co.uk

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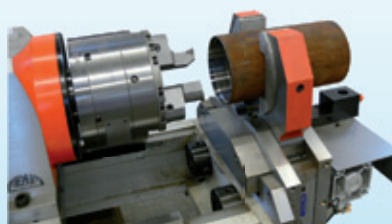


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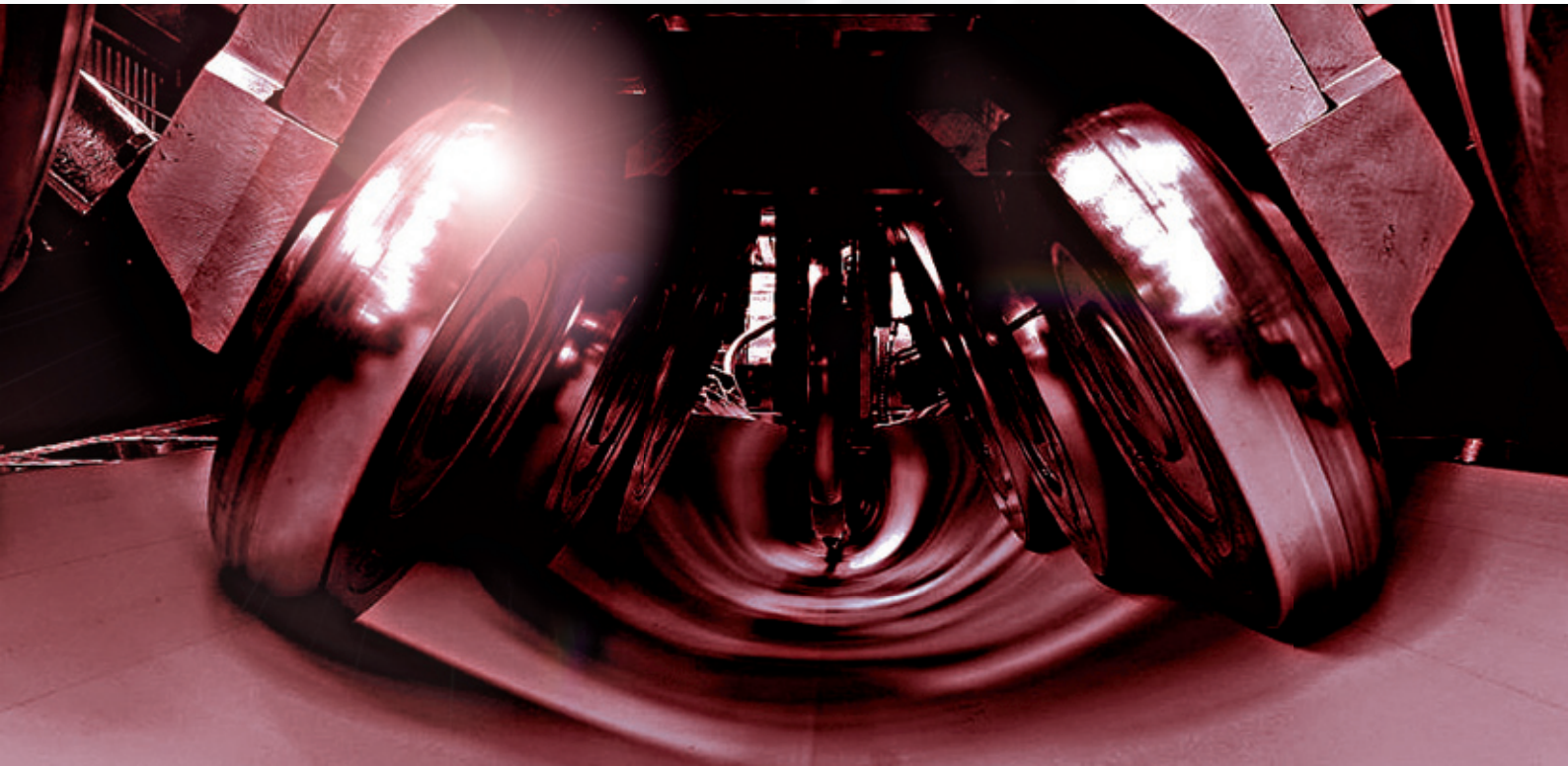
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March 2012
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SEUTHE

SEUTHE manufactures tube and section welding lines and section lines for open sections. Thus, SEUTHE's field of competence is preceding the working area of ASMAG. With 113 years of experience as a manufacturer of production lines, SEUTHE provides patented innovative and demand-oriented production solutions, a dedicated qualified staff and a highclass product quality to ensure a long and satisfying machine life.

www.seuthe.com

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experience & excellence

SEUTHE became a part of the ASMAG Group in 2010 allowing the group to now offer the whole process for the production of precision steel tubes under a single umbrella: from coil to finished tube.



ASMAG

ASMAG is a leading manufacturer and supplier of machinery and equipment for the international steel tube industry. The product range covers pointing machines, drawing machines, straighteners, multiple sawing lines, testing equipment and stacking and bundling systems. For the non-ferrous metal industry ASMAG provides innovative solutions for copper tube production with continuous drawing machines, spinner blocks, level winders and finishing machines. The strengths of ASMAG are the efficient engineering, the high quality of manufacturing and the reliable personal support service.

www.asmag.at



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Calsonic Kansei chooses new welder

MULTINATIONAL automotive component maker Calsonic Kansei has selected an EFD induction welder to weld aluminium components for car radiators and condensers. The welder is a 50kW model from EFD Induction's new range of compact, low-powered Weldac welders.

"The order is one of several we have already received for our new smaller Weldacs," says Peter Runeborg, head of the welder division at EFD Induction. "Our larger, higher powered Weldacs are well known around the world – especially for the high uptime and productivity made possible by their patented switching technology and use of reliable IGBT transistors. The new Weldacs deliver these same benefits, but with smaller footprints and a power range of 50-225kW."

The new welder has been chosen by Calsonic Kansei UK for its facility in Llanelli, Wales.

"Our choice of EFD Induction was in part motivated by our positive experience of a larger Weldac," says Peter Tomas, production engineer at the Llanelli plant. "The larger Weldac achieved high uptime, and gave us very little trouble. And when we did need after-sales support, we received prompt, professional service from EFD Induction."

The new Weldac is currently under construction and is due for delivery to Calsonic Kansei during the first half of 2012. Once delivered, the welder will weld aluminium radiator and condenser components with a material thickness of only 0.25mm. "Being chosen by Calsonic Kansei, which is a renowned name in the world of automotive components, is an honour," says Jon Philpott of EFD Induction UK. "But being selected for such a challenging application adds to the sense of achievement."

EFD Induction has to date installed thousands of heating solutions for a wide range of industrial applications – bringing the benefits of induction technology to many of the world's leading manufacturing and service companies. EFD Induction has manufacturing plants, workshops and service centres in the Americas, Europe and Asia. Corporate headquarters are in Skien, Norway.

EFD Induction as – Norway

Email: sales@no.efdgrou.net

Website: www.efd-induction.com



A 50kW model from EFD Induction's new range of compact, low-powered Weldac welders



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Muffler solutions for Germany

ADDISONMCKEE has been commissioned, operating under its 'Eagle' brand name, to supply entirely new and rebuilt equipment to one of the world's largest exhaust manufacturers for use at its North Carolina facility.

The equipment is to be employed in a new BMW platform and will also be used

in the production of exhaust systems for Volkswagen's new facility in the USA. AddisonMckee will be supplying four pieces of equipment, including a rebuilt asymmetrical lockseamer, a rebuilt flanger, baffle stuffing machine and rebuilt vertical spinner. The size of the muffler and the uncompromising quality standards of

the project provide their own unique challenges.

In over a quarter of a century in business AddisonMckee has established itself in the area of tube manipulation technologies, predominantly for the global automotive industry, and its experience has readily translated to muffler assembly, with a range of work cell and individual product solutions designed to achieve high standards in muffler manufacture.

The company's 2009 merger with Eagle Precision Technologies brought together two major names in tube manipulation products and services to form a complete global solutions provider.

AddisonMckee can automate entire motorcycle, car and truck muffler manufacturing processes, delivering precise acoustics and system integrity.

AddisonMckee – UK
Email: paspinall@addisonmckee.com
Website: www.addisonmckee.com

Large order secured

Norma Group has secured a large order from a vehicle and engine manufacturer to develop and manufacture fluid systems for the transportation of fluids into the exhaust pipe to reduce nitrogen oxides. The product solutions are manufactured for a series of different vehicle platforms. Production will start in 2014. The fluid pipes are an integral part of the selective catalytic reduction (SCR) technology that reduces nitrogen oxides in exhaust gases. The components of the Normaflex product group used for this order include heated pipe systems and joining technologies of thermoplastics that convey urea into the exhaust pipes. Higher exhaust emission standards increase the need to treat exhaust gases.

Norma Group AG – Germany
Website: www.normagroup.com

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Advanced tube technologies

DREISTERN has contributed considerably to the development of new processes like laser welding of high-strength steel, integration of additional production processes such as piercing, embossing or notching into tube manufacturing lines and the production of completely new types of tubes such as multilayer composite tubing.

Multilayer pipes have remarkable physical properties – with the corrosion resistance of plastic pipes and pressure ratings of metal pipes it does not come as a surprise that these pipes have conquered radiant heating and plumbing markets in the recent past.

Dreistern supplied its first industrial production system in 1984. Since then production technology has evolved dramatically and Dreistern has supplied more than 60 systems all across the world. In the meantime markets have consolidated and settled, at least in Europe, and it seems that there is no current need for additional production capacity. As a consequence manufacturers concentrate on reducing cost



Dreistern has supplied more than 60 systems around the world

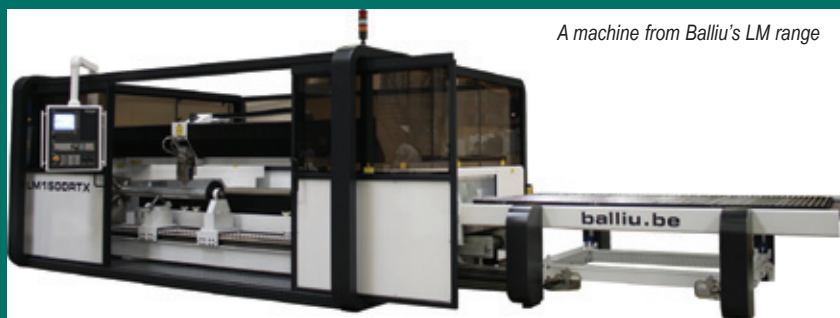
and are trying to load production schedules. As an equipment builder Dreistern is able to help with both issues. First, the biggest part of the total cost of tube manufacturing is made up by the cost for the base material itself. There are a number of possibilities to save as much as 5% of the overall cost by

optimising individual line components without the need for costly equipment. New ideas become even more interesting if, as well as saving money, they help order books to fill up too – one direction of thought could be finding new additional uses for multilayer pipe. This process requires thinking outside the classic box of plumbing and radiant heating applications.

New product uses usually also bring new requirements as well. Production capabilities of today's equipment are limited to tubing with varying diameter and or wall thickness, which might not be able to satisfy new requirements. Tests at Dreistern with slightly modified equipment have proven that existing systems can also produce multilayer pipes with layers of copper or stainless steel in lieu of aluminium. Stainless steel looks exceptionally promising.

These new "species" of multilayer pipe could become a low-cost version for ornamental or chemical tubing. In order to keep cost low the thickness of the stainless steel layer can be as small as only 100 microns or even less. An inner or outer plastic tube supplies the necessary strength. Best of all, these new members to the family could still exhibit the advantages that have gained their older siblings a hefty market share within plumbing and radiant heating markets in the first place. Equipment builders like Dreistern are able to contribute their know-how during product development. This could level some bumps in the road ahead to new products.

Combined sheet/tube laser cutting system



A machine from Balliu's LM range

THE LM series system from Belgian firm Balliu is both a sheet and a tube cutter. Wide doors give access to the complete cutting area, while linear motors ensure the fastest possible production speed.

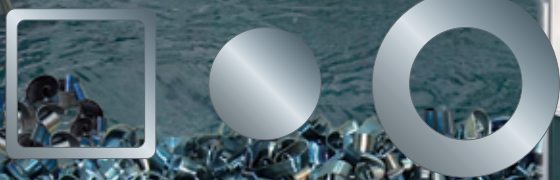
The machine is equipped with a 1,500 x 3,000mm pallet changer, and an optional indexing table allows much larger sheet sizes. The machine has a 3kW CO₂ laser, and fibre laser versions are also available.

Balliu MTC NV – Belgium
Fax: +32 9 340 66 30
Email: info@balliu.be
Website: www.balliu.be

Dreistern GmbH & Co KG – Germany
Website: www.dreistern.com

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www.reika.de

Haven introduces flying cutoff

THE HavenTrak® flying cutoff tube cutting machine is an economical, precision cutting solution to assist tube manufacturers in remaining competitive in the global marketplace.

The HavenTrak combines the industry wide recognised Haven Dual-Blade Shear cutoff head and the Universal U-Trak servo

length control system. This combination delivers accurate, high quality, dimple free cuts on the fly. Mill installations with speeds up to 250fpm are best suited for this new product. The cutting system has furthered Haven's global reputation for over 50 years of innovation, reliability, quality and cost savings. The HavenTrak minimises cost by

providing an accurate and distortion free cut that eliminates the need for secondary operations.

Haven Manufacturing Corp – USA

Fax: +1 912 264 9001

Email: derickson@havencut.com

Website: www.havencut.com

Remote welding at reactor sites

SAFETY at nuclear power stations is of paramount importance and operators need to specify the best fail-safe repair systems in order to guarantee minimum risk. An essential part of EDF Energy's comprehensive safety system in its UK nuclear fleet is the high quality welding systems provided by Arc Machines Inc

(AMI) for secure repairs to damaged re-heater tubes.

Following a three-year development process, from concept to design and application testing, AMI has supplied a bespoke Model 20 weld head with full remote deployment to plug and seal any leaking tubes on the re-heaters at EDF Energy's Advanced

Gas-cooled Reactors (AGR). The new weld head, with an M415 power supply completing the system, will be used in a repair scenario to stop leaking inlet/outlet tubes by plugging a damaged tube during a reactor shutdown.

Bespoke adaptations to the weld system include the facility to remotely drive a specially designed plug to the weld area and hold it in position during the application of a two pass weld sequence with the addition of filler wire. The weld head includes a high precision vision system that can quickly locate the pipe, monitor weld progress and enable a post-weld visual check, using a high definition camera, to determine weld acceptance.

Ensuring a safe method of sealing off a damaged pipe during a reactor shut down is an essential part of EDF Energy's safety case. With the integrity of the weld being so critical and the difficulty of pipe access within the re-heater structure, an automated system was the only solution and AMI's stringent manufacturing standards, workmanship and quality of materials made it the first choice for a reliable solution.

The M20 weld system is AMI's latest venture in a long-term relationship with EDF Energy, providing both standard and bespoke weld heads and power sources. The modified internal diameter (ID) weld head carries a 48mm diameter plug between 8 and 12m from the pipe entry point, depending on the length and location of the pipe, to complete a precise locate and seal operation using AMI's remote welding video vision system.

Arc Machines UK Ltd – UK

Fax: +44 1327 315034

Email: sales@arcmachines.co.uk

Website: www.arcmachines.com

New M11-E-6 tube end forming system

THE new Model M11-E-6 tube end forming system is now available from Manchester Tool & Die Inc. Several cost savings are available by "going green" with the Model M11-E-6, including power, set up, production and maintenance savings.

The M11-E-6 tube end forming system offers lower sound levels, an average power saving of 83 per cent and setup savings of 67 per cent with numerous end forms available for programming. An average increase in production capacity of 15 per cent – 27 per cent provides up to 480 more parts per shift. Long-term maintenance savings are also realised with the elimination of hydraulic fluid and no clamp toggle links and pins required.

Manchester Tool & Die supplies tube end forming equipment and tooling to a variety of industries, with machines ranging from $\frac{3}{16}$ " to 3" OD capacities. Machines and parts can be manufactured for special applications. Manchester Tool & Die also provides steel fabricating and production machining services.

Manchester Tool & Die Inc – USA

Email: testeffen@mtdbkb.com

Website: www.manchestertoolanddie.com



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Non-contact tube measurement

SWEDISH-based LIMAB manufactures laser measurement systems for the steel industry. It is one of the pioneers in non-contact laser measurement, with its own sensor development, engineering, design and manufacturing done in-house. LIMAB has developed several innovative measurement solutions for the steel industry such as diameter, ovality, length, thickness and width measurement.

At Tube 2012 the company will launch a new tube and pipe straightness measurement system.

The two current measurement systems for diameter and ovality/shape measurement, HotProfiler and TubeProfiler, can now also include a straightness measurement with very high accuracy.

HotProfiler is a non-contact in-line laser measuring system for hot and cold applications in bar and tube rolling mills. The system can be equipped with 18 sensors placed in a rotating measurement frame.

TubeProfiler is a non-contact in-line measurement system, equipped with 8 to 24 sensors, for hot and cold applications in

bar, tube and pipe mills. LIMAB has already won several TubeProfiler projects with its new straightness feature for commissioning in the first half of 2012.

The HotProfiler and the TubeProfiler are very easy to install in the existing line and easy to relocate to other parts of the mill, using the built-in lifting hooks and the quick change electrical connectors.

LIMAB – Sweden
Email: sales@limab.se
Website: www.limab.com

New technology for PVC-O pipes

MOLECOR is a Spanish company set up for the development and marketing of PVC-oriented (PVC-O) technology.

Molecor has designed and developed a new air-based PVC orientation system, claimed to be the only technology in the world able to manufacture PVC-O pipes

to a diameter of 630mm and 25 bars. Molecular Orientation is a physical process that modifies plastic's molecular structure, where the amorphous PVC-U structure is reorganised into a layered structure that then confers outstanding mechanical properties to plastic pipes – impact

resistance, fatigue resistance, flexibility – while retaining the PVC's original beneficial characteristics.

Molecor – Spain
Email: info@molecor.com
Website: www.molecor.com



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www.messe-duesseldorf.de



Hot rolling OD finishing

MARKET trends in pipe production are swinging towards smaller and smaller production batches with a move towards production of hundreds of tons instead of thousands. Requests for very high production mixes, however, remain unvaried.

Danieli's policy has always followed the principle that requests from end users are for smarter, more sophisticated and more flexible solutions. Studies are geared towards offering clients innovative plant arrangements and equipment technologies, which are easy to use but also aimed at reducing production costs and time. Flexibility is one of the driving forces in its design department. This is not, however, Danieli Centro Tube's only target in project development. The New FRT (four roll technology) design philosophy aims for "total quality". This concept gives rigid rules about the way to lead a project.

The finest results in total quality are only attainable by focusing attention on first-class products and processes. Final product quality is channelled through the entire flow of the mill and plant, therefore particular emphasis to detail and design is placed on each single piece of equipment provided by Danieli to customers.

Danieli is renowned worldwide for the supply of impeccable plant design. FRT is one of the best examples of Danieli philosophy and is indicative of the important synergy taking place behind the scenes in the various departments involved to arrive at the supply of smart design while no focus is taken away from quality.

Equipment functioning is both simple and effective – in the past outside diameter finishing of rolled materials using two and three roll technologies tended to spread out onto the roll groove; instead with FRT (four roll technology) the natural trend of the material is to collapse inwards, thus allowing a reduction in the outside diameter.

Danieli – Italy

Website: www.danieli.com

Guided side- bend tester

MCELROY, the pipe fusion equipment and accessories manufacturer, has introduced a guided side-bend tester. The quality assurance device performs a qualitative test for ductility in a fusion joint. The guided side-bend tester is a quick, safe replacement for "bend back" tests that have been performed in the field for many years. With the new equipment, an operator can perform a bend-back test on polyethylene pipes with 1–7" of wall thickness. This testing method places the entire wall thickness into tension and gives assurance of the ductility of joints. The test unit is compact and requires just a few common tools.

McElroy – USA

Website: www.mcelroy.com

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SG/711 STAINLESS/CARBON STEEL PIPE MILL

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UNIFORM RIGIDITY SIZING STANDS

SAGE FORMING (SGF) 三高成型法

FEATURES

Five MULTIPLEs with multiple materials: carbon steel, stainless steel; multiple specifications: $\phi 245-711\text{mm}$, $200*200-550*550$; multiple shapes: round pipe, square pipe, rectangular pipe; multiple materials: coil plate, flat plate; multiple welding methods: HF welding, TIG welding, SAW.

Five NEWs with new forming type: Sage Forming (SGF); new structure: sizing uniform rigidity; new welding type: with motive force; new pressure keeping: without roll changing; new shape transforming: combined rolls for forming square and rectangular pipes.

Specification changing without changing rolls in break down forming; quick rolls changing for fin pass forming and sizing section; square and rectangular pipe combined rolls; quick specification changing within 1-2 hours.



SAGE GROUP 三高集团

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Email: sage@csage.com
Website: www.csage.com



Fillet weld grinder solution for grinding tubes

THE 'low long-neck' fillet weld grinder is a new addition to Suhner's range of special tools for abrasive stainless steel working.

The UKC 3-R fillet weld grinder is suited to working on hard-to-access fillet welds – a

problem zone often encountered on vessels and railings around tubes.

It is based on a 500W motor, and has a speed range of 1,400-3,300rpm. This high torque is strong enough to provide the



The UKC 3-R

optimal drive for modern high-performance abrasives.

The motor is characterised by a high power density in a small volume. The stator winding is protected with additional insulation from abrasive grinding dust, to prevent motor damage and enhance the useful life of the tool.

A digital electronic system assumes control and monitoring functions for the motor. This accessory ensures a gentle start-up, and prevents motor overheating and unintentional start-ups after a voltage drop.

The fillet weld grinder weighs only 1.8kg. For minimised tool weight and optimised manoeuvrability, a very low long-neck angled head was developed, made of diecast aluminium for strength and low weight.

Robust spindle locks allow abrasives to be exchanged safely and easily in a short time.

Suhner Italia Srl – Italy
 Fax: +39 035 225 965
 Email: info.it@suhner.com
 Website: www.suhner.com

Plastic pipes rerounders

ITALIAN company Ritmo SpA, a leader in the manufacturing of welding machines and tools for plastic pipes and sheets, has presented three new products – rerounders for plastic pipes.

The mechanical thread of these steel-made products helps remodel the ends of ovalised pipes that need to be welded by electrofusion.

The manual clamping of the tool stems pushes the ovalised end till its reshaping respects the ovalisation range required by most standards, therefore allowing its insertion into an electrical coupling – and avoiding the cost of eliminating a good pipe. The three rerounders cover the following diameter range: 250-400 model for OD from 250 to 400mm; 450-560 model for OD from 450 to 560mm; and 630-800 model for OD from 630 to 800mm. Each one is sold separately, with a steel transport box.



One of the new Ritmo rerounders

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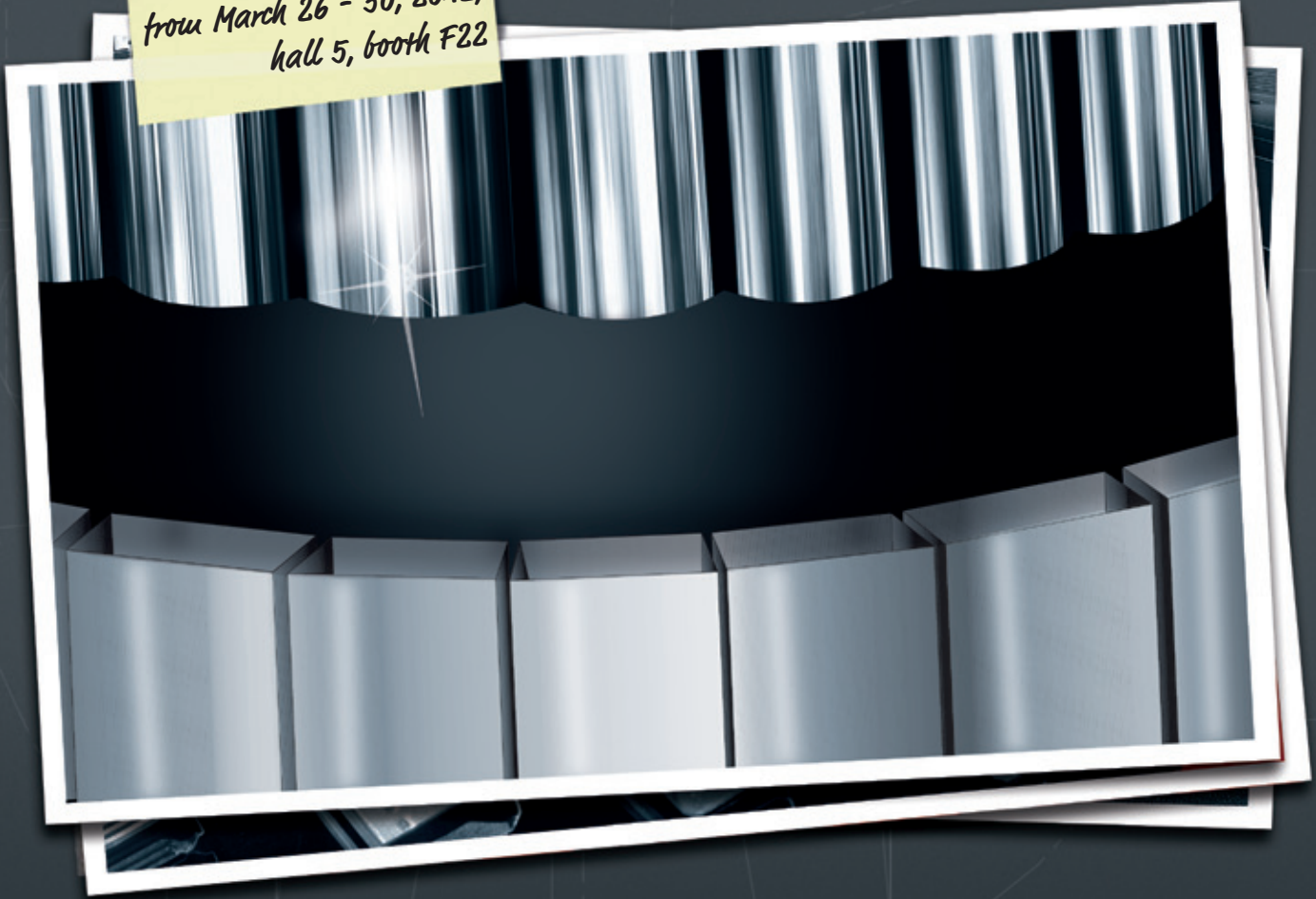
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Polyurethane cure-in-place pipe

IST (Innovative Sewerage Technologies), a producer of sewer rehabilitation products, has launched the world's first polyurethane-based cure-in-place pipe repair system for the trenchless technology market.

With a working time of up to 24 hours between liner impregnation and installation, plus snap cure capabilities, the solution is seen as a breakthrough in CIPP system technology, offering utility companies and contractors significant time and cost savings in the repair of broken or fractured sewer pipes.

The new IST solution comprises a traditional needle-felt liner and a polyurethane resin called VITROX® – a unique isocyanate product developed by Huntsman Polyurethanes, one of the world's major chemical companies.

VITROX® resin is a two-component system with an exceptionally long pot life. Its increased working time window has the potential to revolutionise CIPP

working practices. Traditionally companies repairing sewer networks have had to rely on epoxy resins with a relatively short pot life. This meant impregnating hoses on-site, prior to insertion, often under unfavourable conditions.

Using VITROX®, far more time is available between resin application and installation. As a result, liners can be prepared off-site, the day before application, at a suitable indoor location. This reduces the risk of mixing faults, which can occur on outdoor sites because of inclement weather conditions. It also means actual repair work can start on-site as soon as the team arrives each day – saving time and money.

A further benefit is the speed at which VITROX® resins can cure. With a unique snap cure mechanism VITROX® resins will harden on demand when the system reaches an elevated, predefined temperature. For the CIPP market this has been set at just two hours using water-

curing techniques (>75°C) and less than one hour using steam methods. VITROX® resin can be used with standard CIPP equipment and after curing is resistant to temperatures of up to 120°C.

VITROX® resin has been tested extensively in the field by IST and is currently undergoing German national certification from Deutsches Institut für Bautechnik (DIBt) Berlin – a third party institute.

IST provides full system solutions for the repair of pipes including cameras, pipecutters, resins and liners. The company was formed in 1998. Headquartered in Germany, it has sites around the world and is a leading manufacturer of sewer rehabilitation products.

Innovative Sewerage Technologies –
Germany
Email: vitrox@huntsman.com
Website: www.ist-web.com

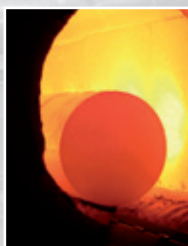


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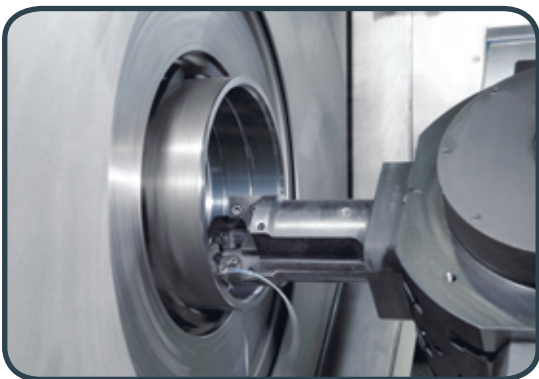
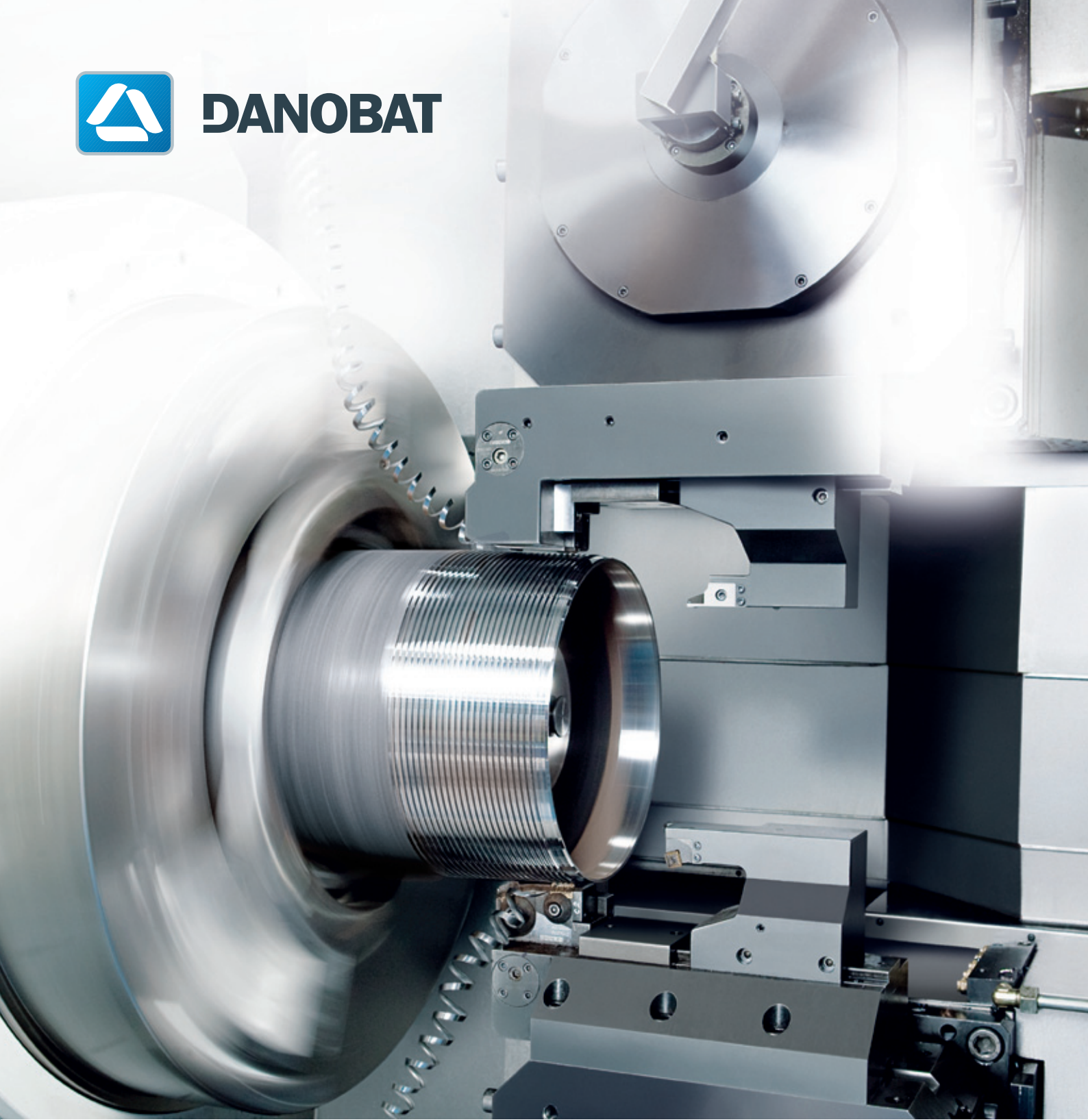


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ITP improves tube inspection

PFW Nuneaton has installed four ITP tube inspection systems at its site to cope with the stringent inspection requirements of its customer – a UK aero engines company.

On its latest contracts the customer only supplied the 3D CAD model of the tube assembly, but no fixtures or drawings. PFW used the ITP software to extract the tube and fitting data from the model and then export the data to the benders and the CMMs with no keyboard data entry required. The ITP systems are then used at all stages of production for initial tube inspection, fitting orientation and final inspection.

The customer praised PFW's achievements, stating that the integrated production system created by PFW, based on the ITP tube inspection systems, was groundbreaking, and that they had never seen the level of throughput achieved at any other company. PFW says that this increase in capability has seen its tube assembly production quadruple compared to its competitors.

PFW production engineer Adam Treadwell said that the company could never have fulfilled the current contract without the ITP systems, which have allowed CAD data extraction, tube and fitting inspection and geometric measurement such as True Position, all on the same integrated system. PFW has found that the ITP inspection

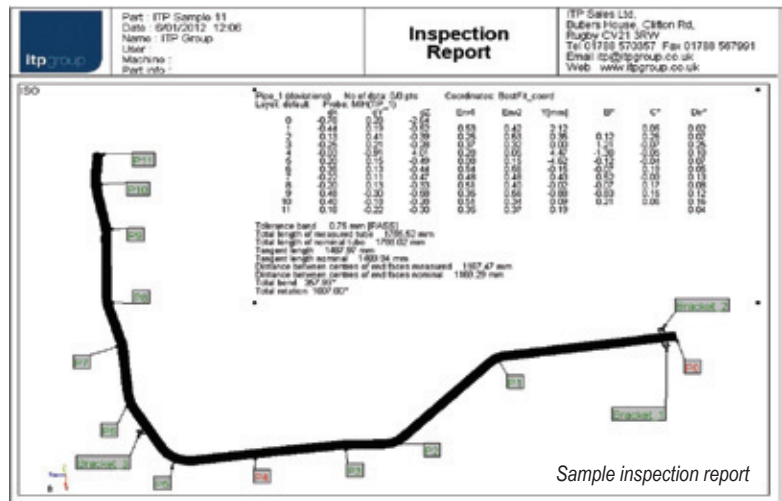
systems' accuracy, flexibility and ease of use have outperformed other tube inspection systems within the group.

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Progress is Life

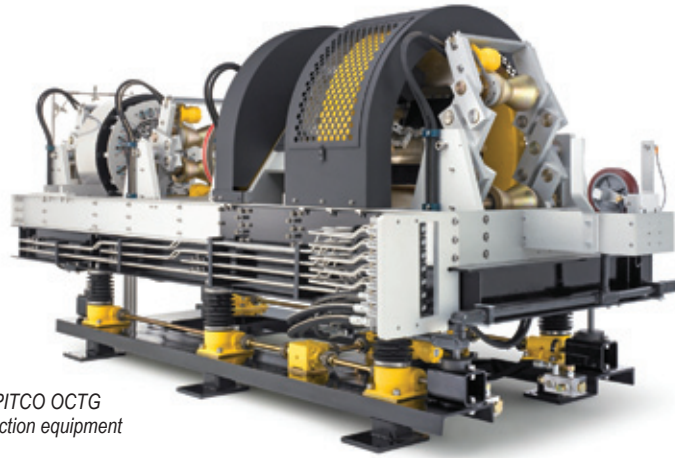
Magnetic flux inspection

AS many in the tube and pipe technology industry continue to repackage old technologies, developing and manufacturing internally is a more foreign concept.

"Some competitors have simply chosen to move away from Magnetic Flux inspection technologies and concentrate on the higher-priced, higher-profit UT technologies," Danny Useton, president of Scan Systems Corp, PITCO's parent company, said. "This has forced a lot of our competitors' end-users to compete in the world market with twenty, thirty, or even forty-year-old MFL equipment."

Full body magnetic flux (MFL) inspection equipment for OCTG materials may not be top of mind for some, but one company invests a substantial percentage of its gross revenues back into the research and development for its customers.

The focus of PITCO for the past ten years has been to evaluate current inspection technologies, research improvements, and apply successful developments to create better products and software associated



The PITCO OCTG inspection equipment

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PITCO engineers have developed improved mechanics, advanced inspection sensors, speciality digitalisation systems, sophisticated software algorithms, and an advanced signal processing system for the OCTG industry. The DT-2100™ and DT-3100™ M-series Digi-Tech™ MFL pipe

inspection unit are prime examples of the four-function OCTG inspection system – including a longitudinal, transverse, wall monitoring and grade comparator.

PITCO is a division of Scan Systems Corporation of Houston, Texas, USA.

PITCO – USA

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2012 Features

April

- Inspection equipment
- Small diameter high precision tubes
- Construction, building and structural tubes
- Plastic pipes
- Show issue: Tube Russia 2012

July

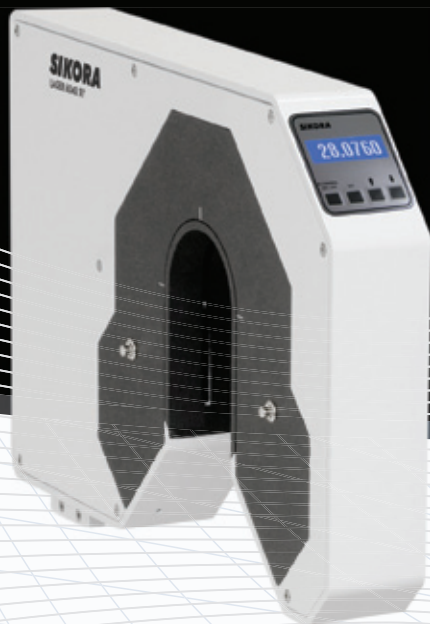
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Dr. Torben Clausen, R&D at SIKORA AG

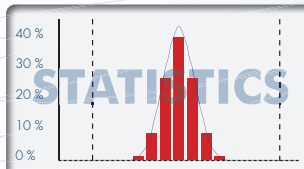


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During the extrusion of hoses and tubes the LASER Series 6000 measures the outer diameter in a range from 0.2 to 78 mm.

The high measuring rate of the gauges allows at the same time a detection of lumps and neckdowns.

New: The gauge heads now have an integrated brilliant LCD display with control panel option. This allows the operator to read the diameter measuring value directly from the gauge head and to control the line.

SIKORA

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Honing machines

THE first of two new 10m stroke 30kW horizontal honing machines has been delivered and installed by Apperley Honing to a client in Singapore.

With over 45 years' knowledge of the subcontract market, Apperley has used its experience to create a brand new design of hone. Called the Tubehone, the 24m-long, all-electric machines have two

powerful 15kW motors driving the rotation and stroking axis. Controlled by an easy to program Siemens touch screen HMI, set up can be achieved in a matter of minutes and novice operators can be trained to run the machines in less than a day.

The Tubehones are equipped with traditional V blocks and ratchet clamps to support the workpieces as well as a unique feed-in device that allows the operator to inch the hone head in and out of the tubes in complete safety.

To improve safety even further, the Tubehones' drive shafts are totally enclosed, and whenever the access doors are open during set-up phase, the machine is restricted to slow, safe jog speeds. Only when the doors are closed can the full capacity of 32m/min and 220 rpm be achieved.

The Tubehone can be designed to suit the needs of the customer, with a range of power options from 5.5 to

30kW and workpiece lengths from 2m to 10m.

The modular design means that a customer can start with a 2m machine and then acquire additional frame sections as they are needed in order to increase the capacity up to the maximum of 10m. The machines can be tailored to suit different applications, coping with small 25mm diameter bores as well as large components with 750mm outside diameters.

Managing director Charles Sanders explained, "We work with pretty much every type of honing machine here in Cheltenham. Our sub-contract department operates over 25 different types of honing machine and delivers results for clients in the automotive, defence, pharmaceutical, aerospace and petrochemical industries. We maintain, repair and refurbish honing machines day in and day out, and so, for us, it's been a relatively small step to create and manufacture our own design."

The two heavyweight machines were both designed and built at the Apperley Honing factory in Cheltenham, UK, and each was equipped with Apperley's Ranger and Shell tooling.

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Longitudinal welding for tube

ROSENDAHL supplies complete tube mill systems for the production of welded metal tubes. These lines are capable of producing tubes and pipes with a diameter from 6 to 1,024mm and wall thicknesses from 0.1 to 20mm. All the lines are individually customised, focusing on the needs of the final product application: solar tubes and hoses; heat exchanger tubes; hygienic and process tubes and pipes; and automotive applications.

Rosendahl tube mills process materials of different grades of ferritic and austenitic stainless steels, nickel base alloys, titanium, aluminium, and copper and its alloys.

In the course of the conception of turnkey solutions, which covers the process steps tape preparation, tape forming, tube welding, tube corrugation, welding seam cold working, tube calibration and tube heat treatment, the selection of the welding procedure is an essential step. Different materials and applications require different welding technologies. With

regard to economic efficiency, Rosendahl provides solutions with TIG, plasma, laser and HF welding technologies. Rosendahl evaluates the potential influences on the metallurgical structure, hardness value of the welding seam, corrosion resistance of the material, shape and formability of the welding seam, ability for continuous operation and welding speed.

The company offers a consulting service that is necessary for the tube product and process evaluation, the preparation of tube mill investments and upgrades. This includes metallurgical analysis of tubes and tubular products, characterisation of metal formability and corrosion performance and the testing of weld ability. For the production trails of smooth and corrugated tubes, laboratory lines are on duty in the Rosendahl R&D centre.

Rosendahl Hybrid welding systems allow the use of different welding methods, system by system or simultaneously in one tube mill. The combination of Polarc TIG

and plasma as well as laser welding is possible, even with the use of filler material for high wall thickness levels. Rosendahl tube mill systems are equipped in such a way that an upgrade to another welding principle is possible without any major effort, even after start up phase according to enlargement of capacity or change in products.

To enlarge the maximum speed range of laser welding, which is limited with keyhole welding in the range of 20m/min, for wall thickness below 0.7mm, heat conductive laser welding is used. This offers the advantages of high speed welding up to 60m/min; 100 per cent repeatability and process control for wall thickness down to 0.1mm; and non-stop production for continuous operation.

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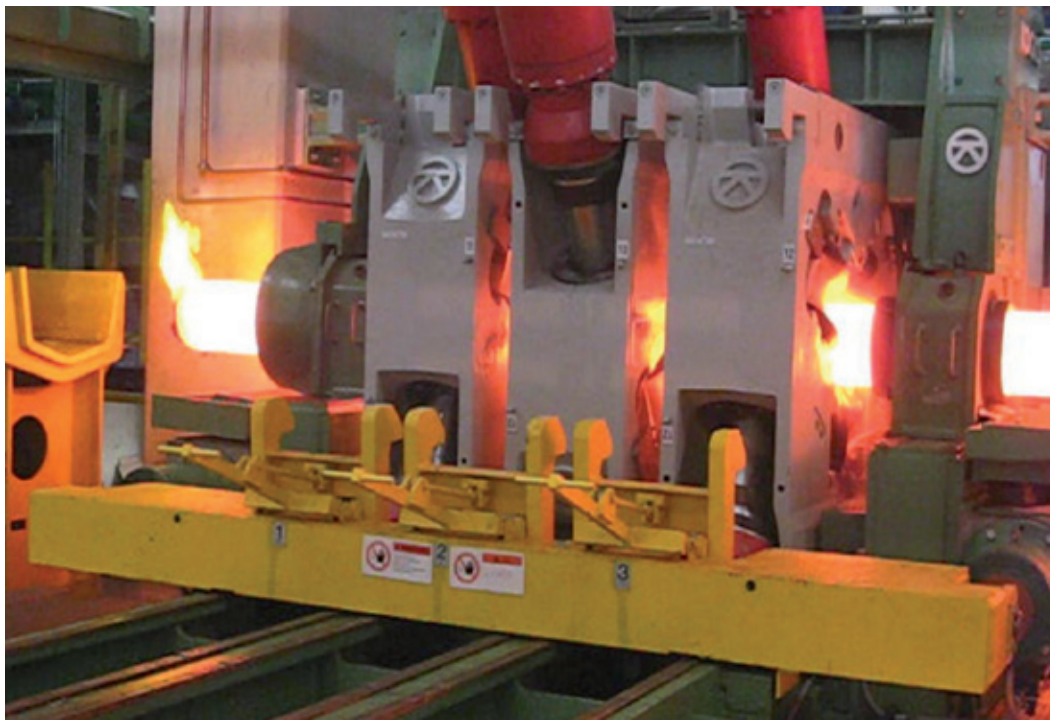
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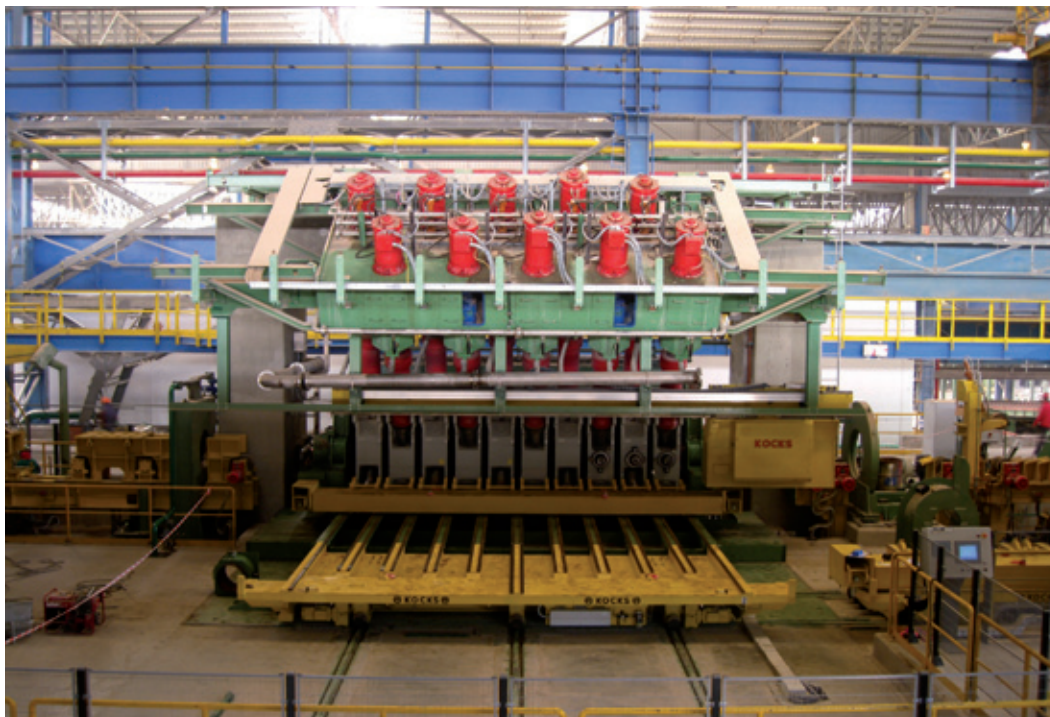
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Pipe forming mill

NAKATA Manufacturing Company has developed a completely new forming method that can make quality pipes with lower deformation strain and has higher productivity.

The company is a general welded pipe plant supplier covering all equipment from entry section to finishing section. By making full use of a self-developed, high-speed, high-precision FEM simulator, Nakata has developed and brought many unique technologies into the industry, such as the FFX Mill and Roll Box, which apply common-use roll technology and have high formability for quality round and square pipe production. Nearly 50 sets of FFX Mill have been installed during the ten years since its development.

Nakata maintains research and development to pursue better quality pipe production. It is realised that there is a limitation in the traditional pipe forming method for a technical breakthrough.

Current pipe manufacturing methods can be classified into two basic categories. The first category is roll forming, which is widely used owing to its high productivity and low investment cost for welded tube and pipe production. However, the excessive three-dimensional deformation often gives high forming strain, high work hardening and complicated residual stress to the materials, which is the basic reason for poor product quality. In addition, the limited contact between rolls and materials not only makes the forming unstable due to weak constraint, but also brings high contact pressure, together with the unavoidable slip between the materials and rolls, which lead to bad pipe surface quality and short tool life. These problems are hard to overcome while rolls are used as the main forming tools.

The second category is press forming. Nearly plane deformation state over the product's full length tends to give less strain and better product quality, but it also brings excessive forming load, which limits the product's maximum length, as well as limiting productivity, and requires very costly press machinery. This method is confined to short length pipe production.

Nakata has developed a new pipe forming method named Orbital Die Forming (ODF), aimed at inheriting the advantages from both above traditional methods.

In roll forming, it is known that the larger the forming roll's diameter is, the closer to plane deformation state the forming becomes. However, large rolls with a diameter range from several metres to dozens of metres are required to obtain this kind of ideal deformation mode, which is impossible in reality. Nakata succeeded in getting this kind of nearly ideal deformation state similar to press forming by inventing the ODF method. In this method a multiplicity of die blocks, moving in the circumferential direction on an endless track, are connected together to provide a tool surface with a very large curvature radius and work just like a huge roll.

This new forming method has both the high productivity of the roll forming method and the excellent product quality of the press forming method. Those products difficult to produce by roll forming, such as pipes with very thin wall thickness and pipes with difficult-to-form materials, can now be easily made.

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RSA

The Power of Perfection

Orbital cut flying cut-off

MECCANICA Adda Fer has introduced the third evolution of the flying cut-off for pipes up to Ø16". The machine is designed for the low saw cut of round, rectangular and square tubes, and it enables the achievement of very high line speeds, cut quality and output through the use of multiple heads.

It can work simultaneously with two or four heads optimising the cut times, depending on the dimensions of the tubes to be cut. Working with only two heads, alternating

with the other available two, it is possible to double the autonomy of the line between changes of saw.

The system also allows the use of very small diameter saws with a small contact area and friction with the tube, with a great economy of the consumption of the cutting tools. A system of universal vices allows the operator to work the all of the range that is expected from the machine with only two sets of jaws for round, rectangular and square tubes.

The machine is an orbital type, meaning that it is made of a rotating structure on a large diameter ball bearing, where the saw heads are placed. The very solid heads allow the use of small diameter tools; every head is composed of a speed reduction gear with gears that are case hardened, and hardened with bath lubrication and driven by a servomotor. The radial feed movement for each head is controlled by a servomotor through a ball screw, and the sliding takes place on ball shoes.

Heads are placed inside the rotating structure, protected from chips, coolant and from the liquid carried by the tube. Outside, in the cutting zone, only mandrel ends are visible and accessible with cutting tools.

The feeding of the rotating part is made by a cable chain that winds the rotating part on which an appropriate support is obtained. The whole rotating unit is mounted on a support fixed structure that is integral with the translator carriage; all is made in sized electro welded steel structural work. On this structure a rotating unit is fixed and controlled by a servomotor that, through a gear motor and a pinion, provides the rotation of the structure with cutting heads while checking the progress.

A guide system of the incoming tube, made of a horizontal and vertical cage composed of rolls that are adjustable with a screw system in order to adapt them to the various pipe sizes, allows the driving of the tube in the incoming vice.

Line-up pipe clamps

DWT offers internal line-up pipe clamps that offer fast and accurate adjustment, no tag weld is needed, avoid oval pipe problem, can be used for pipes with different wall-thickness and offer a precise axial adjustment.


The welding quality in pipeline construction is crucial and has to fulfil worldwide standards, certified by international authorities. Companies like Norske Veritas have set up guidelines, to avoid defects and therefore environment and health risks, by use of the best pipeline equipment. Very important is the choice of the correct internal line-up pipe clamp for weld preparation, to compensate tolerances of pipe manufacturers and to avoid edge misalignment during the welding process. Internal line-up clamps are the most frequently used alignment equipment nowadays, because they provide full access to the weld seam during the entire welding process.




Internal line-up clamp from DWT

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Website: www.dwt-gmbh.de

Meccanica Adda Fer Srl – Italy
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ENGINEERING Bureau Franke International Ltd is an independent inspection company that provides a range of services ensuring complete and economically effective realisation of customers' products. A reputation based on high professionalism of employees, and the establishing of close long-term relations with clients are the main criteria of the company's work.

The company has been working in the sphere of inspection services for more than 30 years, and was founded as an independent company in 1973 in Germany. The head office of the company is located in Dnepropetrovsk – the metallurgical centre of Ukraine, and offices are in Mariupol, Odessa, working offices in Dneprodzerzhinsk, Nikopol and Khartsyzsk. Broadening the international activities of the company, representative offices have been opened in Moscow, Taganrog and Volzhsky (Russian Federation), in Shanghai, China, and in

Aktobe, Kazakhstan, and it also plans to open offices in India.

Engineering Bureau Franke carries out inspection of the following tubular products: seamless and welded tubes and pipes; drill pipes; casing and tubing for oil and gas exploration; pipes for oil and gas pipeline construction; and tubes and pipes for use in the machine-building industry. The company has experience in carrying out inspections of pipeline, casing and drilling pipes for customers from Russian Federation and CIS countries, Kazakhstan, the Middle East, South-East Asia, Africa and the USA.

The scope of activities is constantly enlarging, and besides inspection of all kinds of metal products it includes certification of enterprises, inspection of railway wheels, railway products and component parts for railway equipment production, technical supervision, material testing, inspection of buildings and constructions, appraisal services, consulting and inspection of agricultural

cargoes, mineral fertilisers, inspection of container cargoes, and marine survey.

The company's personnel policy follows constant changes in the business world, and actively develops and attracts educated, highly qualified technical specialists. Staff are trained on specialised courses improving qualification on a regular basis: training programme of specialists on non-destructive testing; training programme of specialists at Paton Welding Institute Training and Qualification Centre within the International Welding Inspector programme; training of specialists on railway wheels testing in Munich University (Universität der Bundeswer München); internal API auditors (American Petroleum Institute); and ISO 9000/14000 auditors.

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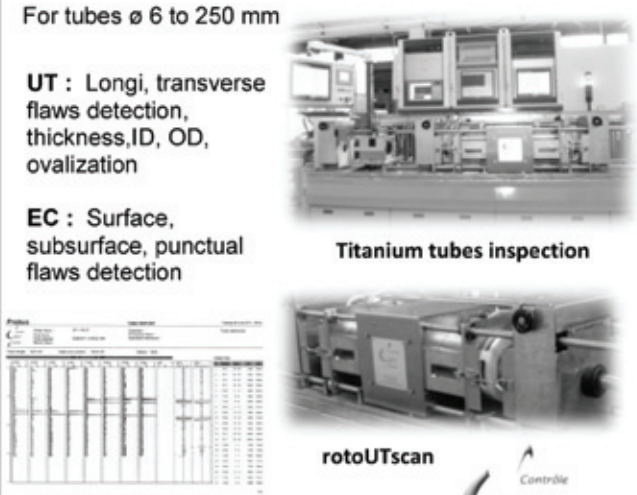
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Machining of OCTG equipment

ESTIMATES of the world's oil and gas reserves vary, but what is certain is that huge investments will continue to be made in response to the challenge of increasing the yield from existing and future oil and gas fields.

The inevitable consequence of the boom in exploration worldwide is increased demand for the specialised equipment used in the drilling of new wells and the extraction of oil and gas. This in turn places new demands on the capabilities of the oil and gas industry's supply chain.

Over the past decade Danobat has emerged as one of the major suppliers



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in the OCTG (oil country tubular goods) segment of the oil and gas industry. Customers for Danobat's products include Tenaris, Vallourec, Gazpromtrubinvest and TPCO, some of the most important OCTG manufacturers worldwide.

For anyone involved in the machining of difficult-to-machine materials such as high specification corrosion resistant alloys, the last thing they need is a problem with a finish machining operation that could result in damage to a high value component and delays in meeting delivery dates. The challenge that Danobat has succeeded in meeting is the design and development of machine tools and systems capable of dealing with increasing pipe thicknesses; tougher, more corrosion-resistant materials; and the demand for greater types of threads for pipe ends and couplings, all prompted by the fact that drilling is reaching deeper and deeper beneath the earth's surface.

Danobat – Spain
Website: www.danobatgroup.com

Vacuum system

HIGH Tech Extrusion presents its new state-of-the-art OMNIA vacuum system, which is also integrated in the new OMNIA KT calibration table, as stand-alone version for standard calibration tables.

High Tech Extrusion, consisting of the companies Theysohn, Technoplast, Topf and Extruder-Komponenten Salzgitter, is an "all-in-one" provider, which has developed a unique series of extrusion lines, tools and pipe heads. After the latest development of the new OMNIA series and the new RK Streamliner pipe head, High Tech Extrusion now presents a stand-alone vacuum unit as retrofit system for conventional calibration tables.

This new system, which has a minimum width for easier placement between the extrusion lines, is characterised by a very short return on investment. Based on three frequency controlled vacuum pumps and three frequency controlled water pumps energy savings of up to 70% can be achieved in comparison to conventional calibration tables. Customisation of the new vacuum system is possible because of its modular system. After tests and comparisons with similar units of other companies at a renowned German extrusion company the choice was made to order the new OMNIA vacuum system unit as retrofit kit for a High Tech Extrusion Profitec calibration table.

High Tech Extrusion GmbH – Austria
Website: www.ht-extrusion.com

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Tool-independent tube forming

DURING times of ever faster and more complex challenges to the science of tube production, tool costs are still as important a factor as ever. Nevertheless, it is common in tube forming that the form is mostly dependent on the quality of the tooling. The only ways to make small changes to the geometry were, until now, changes in the actual material length and by using different strokes. With huge effort and a lot of tools, flexibility and efficiency was starting to be lost. That is why transfluid has designed a radically different process to form different geometries on different diameters without special, geometry dependent tooling.

“For us it’s always very exciting to think a little further and to try out and create new technologies, for applications where the standard technique does not provide a solution,” said Gerd Nöker, managing director of transfluid. “And often the best solutions are in some effective details. For our new method for the tube forming only a very simple clamping jaw is in use. All other tools are independent of the geometry and the diameter of the tubes. A special feature of the new transfluid forming method is that the clamp length is around 1 x tube diameter. So most of the parts can be formed without using expansive form clamps.”

The surface of the forming geometry can be produced with a perfect surface quality – even with rotationally symmetrical elements to create an optimal sealing surface. Where previously especially the reduction of stainless steel was a big challenge, the newly developed method is a safe solution. The tools are also completely free from wear.

“Since our tube forming process is used specifically for diameter reduction or for keeping the diameter, it is possible that before the processing an axial expansion of the tube can be necessary. Of course, high-strength materials and stainless steels as well can be formed as also softer NE-metals,” explains Gerd Nöker.

With its impressive solution transfluid has created a technical way to manufacture a big range of individual geometries with minimal tooling costs.

transfluid Maschinenbau GmbH –
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Email: info@transfluid.de
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Carbide metal impregnator

THE new Rocklinizer Model 800 metal impregnator from Rocklin Manufacturing deposits and impregnates wear resistant electrode materials to metal surfaces for wear prevention and maintenance. For users who require a heavier deposit (for instance on gripping applications), the Model 800 can apply up to 0.007".

The Rocklinizer features a rotary applicator for faster application, and has touch panel controls and digital readout for deposit thickness and applicator speed.

The portable unit, which weighs only 35lb, is supplied complete with power unit, electrode package and instruction manual.

Three types of electrodes are available for use with the Rocklinizer: tungsten carbide electrodes are applied to high speed steel and other metal surfaces to prolong useful life and reduce wear; titanium carbide electrodes surface seal carbide to prevent chipping; and 'Rockhard' electrode material is applied to build up, to reclaim undersized tools by restoring tolerances,

for maintenance, and to provide gripping surfaces.

Deposits are available from 0.0002" to 0.007" in a single application, controllable within 0.0001" by machine setting. This is a heavier maximum deposit than any previous model.

Rocklin Manufacturing Co – USA

Fax: +1 712 252 5619

Email: info@rocklinmanufacturingco.com

Website: www.rocklinmanufacturingco.com

ERW tube mill from China

AUTO-DNSA mill was developed by FD Machinery in 2011 on the basis of DNSA technology. AUTO-DNSA refers to the DNSA mill with automatic roll change and automatic adjustment. FD has signed the first supply contract with a Taiwanese large steel tube company and the mill will be put into operation in June 2012.

The basics of AUTO-DNSA mill are from DNSA, which is an upgrade on the manual automation of DNSA mill. Similar to the DNSA mill, the AUTO-DNSA mill has higher requirements on the equipment precision and rigidity as compared with normal mills. The differences are that in DNSA mill, the tables are used to adjust the rolls manually

and the roll changes are done mechanically. For AUTO-DNSA mill, the automatic roll change is done via programs for automatic adjustment. The roll change (including adjustment) takes less than an hour.

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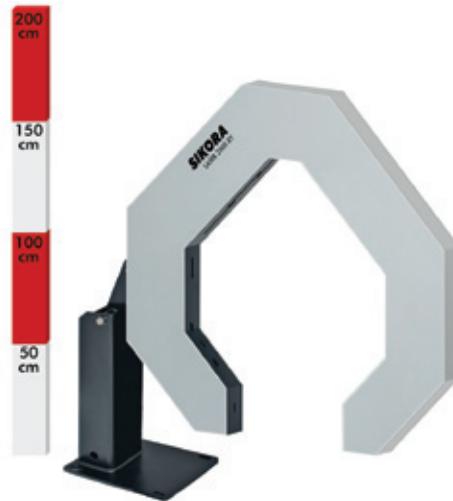
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The Laser 2500 XY device

FROM medical tubes to gas tubes: Sikora's product range includes measuring device solutions for very small product diameters of 0.05mm to very big ones of 500mm. The Laser 2500 XY has been developed for quality control of extremely big product diameters from 50 to 500mm. The gauge head is in particular suitable for the manufacture of sewer and water pipes as well as shrinking hoses.

With the unique non-contact laser technology for diameter measurement the measuring device fulfils all requirements for the hose and tube production with regard to quality and reliability. The technology is based on CCD sensors and laser light sources in combination with powerful signal processors. The outer diameter of the product is directly calculated from the shadow image. Extremely short exposure times allow a high single value precision at all line speeds. The technology does not include moving parts. Calibration procedures or maintenance are not necessary.



The Laser 2500 XY is suitable for diameter measurement of big products

As with all gauge heads of the Sikora Laser Series 2000, the Laser 2500 XY provides common interfaces such as Profibus-DP, CANopen and EtherNet/IP for the direct connection to a PC or the display and control devices Ecocontrol 600, 1000 and 2000.

Sikora's range of products for diameter measurement includes a variety of

different 2-axis measuring systems for a diameter range from 0.05 to 500mm. For the additional calculation of ovality, diverse 3-axis measuring systems for product diameters from 0.1 to 100mm are available.

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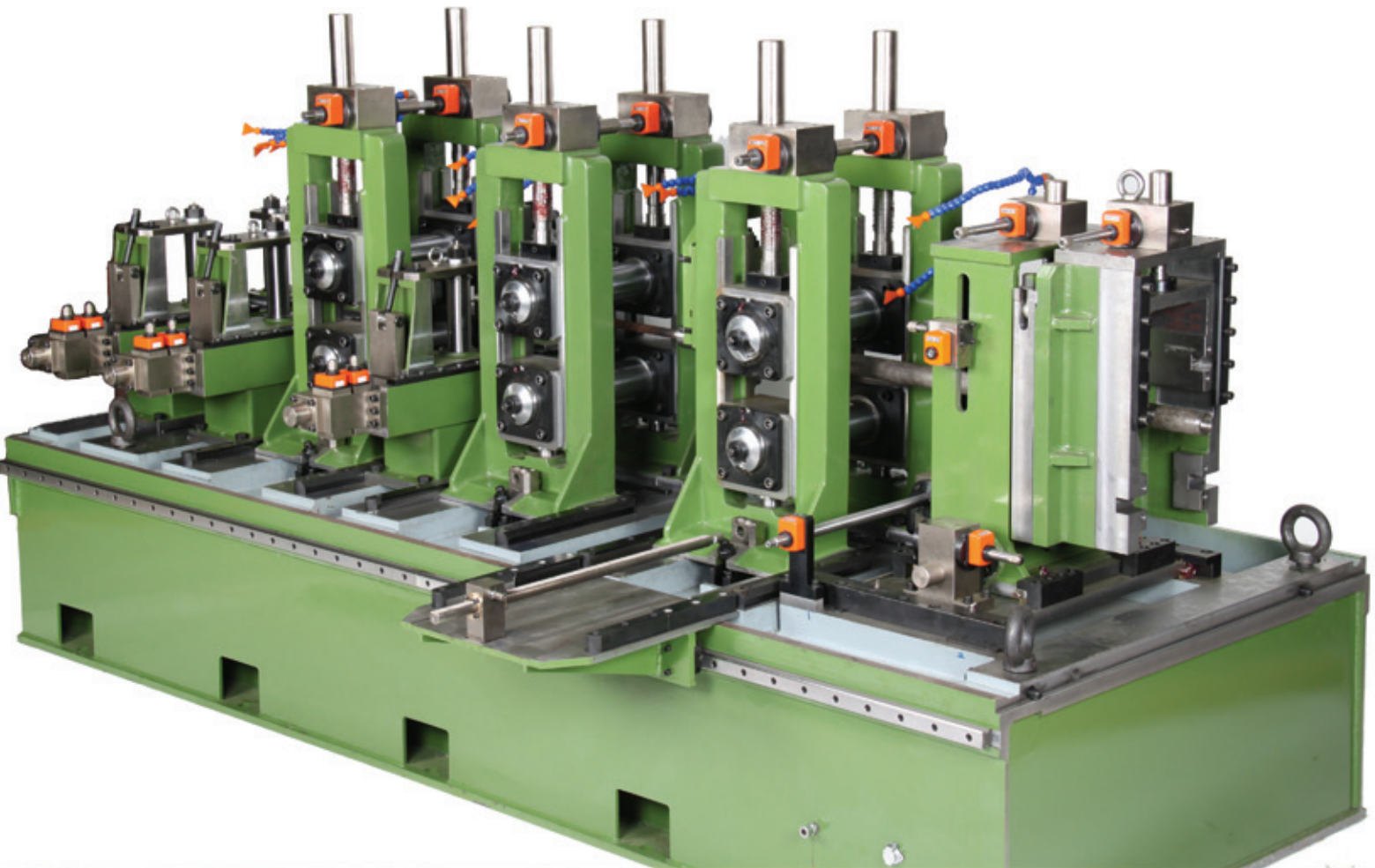
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Three roller continuous rolling mill starts operation in China

AN OCTG factory built by Bazhou Seamless Pipe Limited (BSP) has been put into operation in Xinjiang, China. Taiyuan Tongze Heavy Industry Co Ltd is the general contractor for the hot rolling line, which is combined with designing, machining, manufacturing, installation and commissioning.

The hot rolling pipe specification is $\Phi 127\text{mm}$ to $\Phi 355.6\text{mm}$, wall thickness is 5mm to 50mm, and yearly capacity is 700,000 tons. The main equipment includes billet preparation, mid-diameter rotary hearth furnace, cone-type piercing mill, five stands three roller continuous rolling mill with stand exchange at side, five stands extractor, fourteen stands sizing mills and cooling bed.

The whole hot rolling line equipped with hydraulic servo press down for roll gap setting, pipe end reduction, product quality



Mid-diameter rotary hearth furnace

control and tool life control system. Taiyuan Tongze Heavy Industry Co also supplied two pre-finishing lines, finishing line and heat treatment line.

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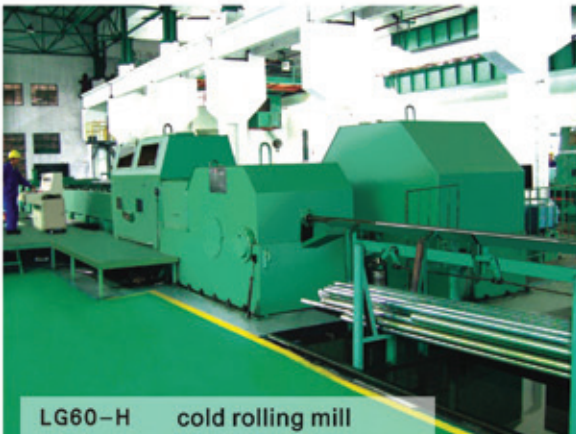
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LG60-H cold rolling mill



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Field emission scanning

HITACHI High-Technologies has launched the SU8000 family of ultra-high resolution field emission scanning electron microscopes (FESEMs) for investigating the fine surface structure of materials in a wide range of nanotechnology fields. The SU8000 series features a common, high performance electron optical platform to provide imaging performance, and offers a variety of stages, chambers and signal detection systems to meet the wide variety of customer-specific needs for ultra high resolution microscopy.

The new SU8010, SU8020 and SU8030 join the existing SU8040 to form a comprehensive family of ultra high resolution microscopes. A high brightness cold cathode field emission source is used in combination with the latest generation of Hitachi's patented super ExB in-lens detection systems for energy filtering, charge suppression and contrast control. All microscopes offer excellent imaging performance at low accelerating voltage to minimise sample damage, and enhanced

electron deceleration technology has improved resolution at ultra low landing voltages to just 1.3nm at 1.0kV.

All models of the SU8000 range are equipped with specimen exchange chambers and lens-integrated liquid nitrogen traps as standard, ensuring high chamber vacuum and thus minimised contamination.

The SU8010 is the entry-level model with dual (upper and lower) secondary electron detectors with secondary and backscattered electron signal mixing capabilities for versatile imaging. A three-axis motorised stage is provided, capable of accommodating samples up to 100mm diameter.

The SU8020 offers the same sample handling capabilities using a five-axis motorised stage as standard, but benefits from Hitachi's triple detector system to extend the capability to collect secondary electrons and low energy backscattered electrons. This novel, ultra-sensitive detection system allows high efficiency, simultaneous multi-signal imaging and energy filtering even in beam



The SU8030 model

deceleration mode, providing the capability to observe the absolute surface structure as well as properties such as surface potential contrast.

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World's largest HAZControl technology welder

THERMATOOL Corporation has completed installation of the first 800kW variable frequency HF welder. Selectable welding frequency (in 1kHz increments) gives the operator fine-tuned heat input control over the heat affected zone (HAZ), assuring that the same high-quality weld is achieved run after run.

Stabilised within $\pm 1\%$, the selected welding frequency provides consistency to reproduce

a weld with enough reliability to build a brand on HAZ performance characteristics. Tube and pipe producers using over 500kW will benefit from this functionality.

High-powered HF welders have previously presented unique technical challenges to variable frequency implementation. With this installation Thermatool has opened the door to variable frequency for heavy wall tube and pipe producers, providing a 150kHz to

375kHz frequency range for an 800kW unit.

Thermatool Corp continues to push power supply performance boundaries as it completes construction of a 1,000kW variable frequency welder that can operate between 200kHz and 275kHz.

Thermatool Corp – USA

Email: info@thermatool.com

Website: www.thermatool.com

Stationary pipe-end preparation

TH WORTELBOER BV, which offers stationary pipe-end preparation machines, will present an all-new machine, the PBM-16, at Tube Düsseldorf, Germany.

Some of the improvements to the machine are: screens that are four times bigger and give a better view of the operation; a much

improved sliding system that improves stability; by using a frequency regulator, speed is adjustable; larger toolheads are used to reduce tooling costs; and better feeding system of the toolhead. The company will also introduce an electric driven tube and pipe polisher resulting from requests from

customers who asked for an electric driven machine. The TPP is especially designed for cleaning the ends of pipe from rust, coating, paints etc before welding can take place.

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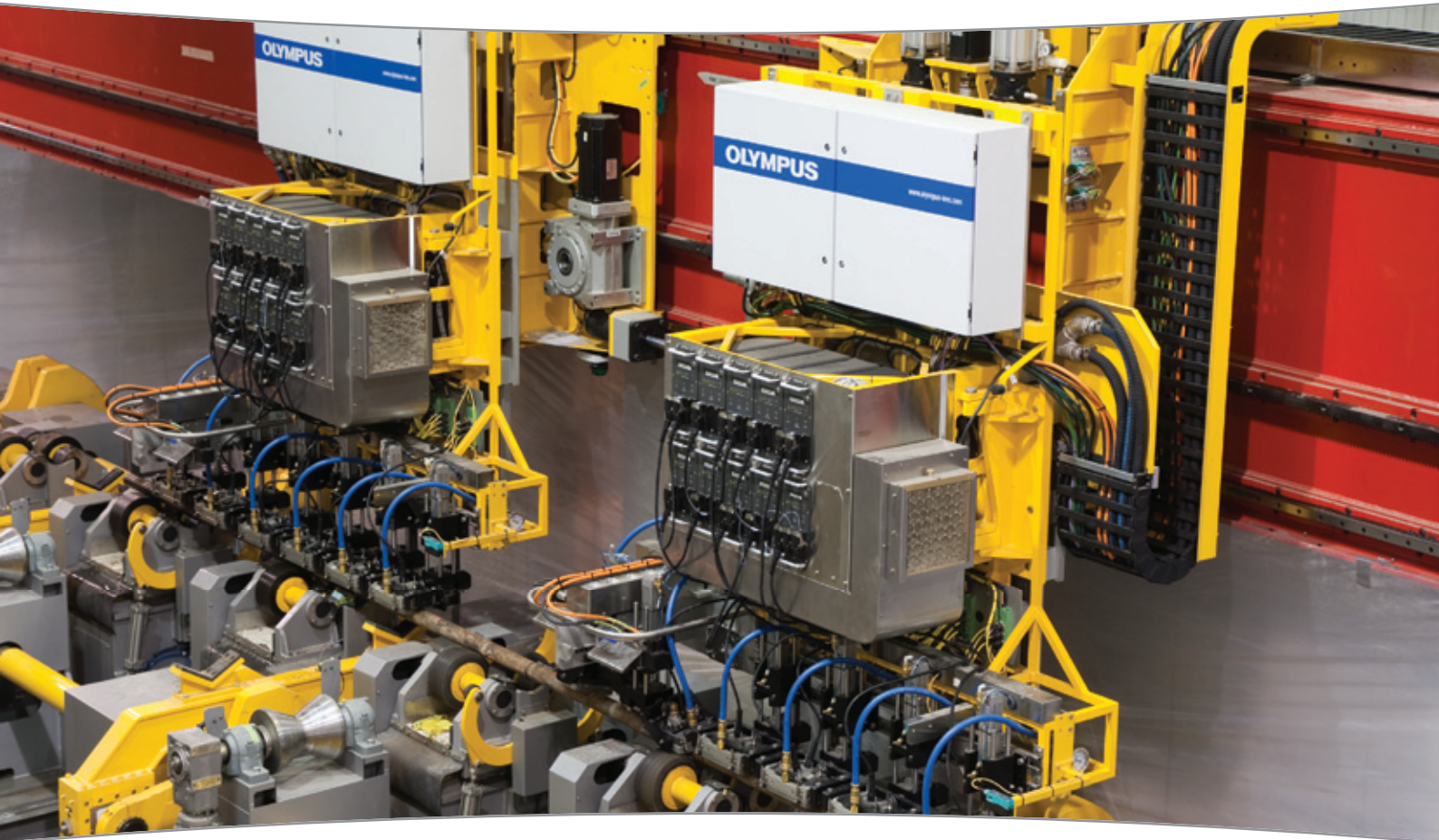

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Scanners for diameter control in cold processes

ZUMBACH Electronic, Switzerland, has extended its range of ODAC® laser scanners for non-contact inline diameter measurement for large size solutions. With the ODAC 550 it is now possible to measure large steel bars, tubes and rolls up to 500mm or more at accuracies of a few metric microns and rates of up to 2,000 measurements/s. Other materials, such as titanium, brass, alloys and plastic, work as well.

This was made possible by the development of a revolutionary optical scanning technique with a highly parallel and seamless measuring field (no dead zone). The technology also allows mounting emitter and receiver far apart from each other, depending on the available space conditions. Typical processes where the system offers new solutions are peeling, grinding, polishing and straightening, as well as in quality control lines (NDT).

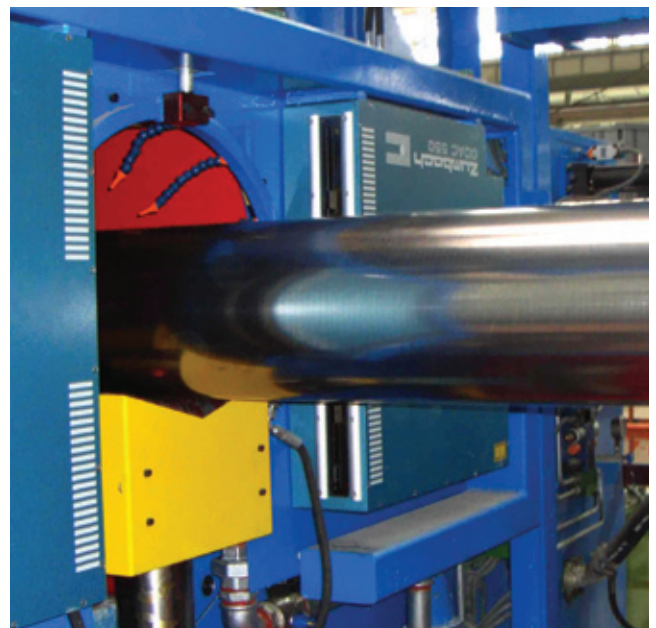
The dimensional data for diameter, ovality, etc can be fed directly to the user's network or displayed in real-time for the operator by USYS processors, and also for feedback to the machine. Complete accessories like secondary protection enclosures, cooling devices, air purging and air knives are available for heavy-duty environments.

Zumbach Electronic AG – Switzerland

Fax: +41 32 356 04 30

Email: sales@zumbach.ch

Website: www.zumbach.com



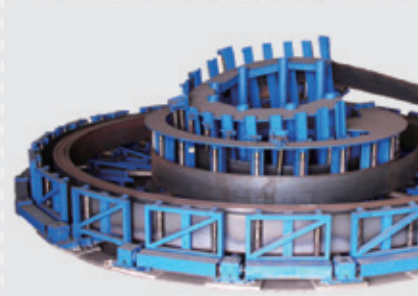
ODAC 550 installed on the biggest peeling machine in the world
(photograph courtesy of Landgraf, Italy)

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Hold-E pipe clamp

SUMNER Manufacturing has launched the Hold-E pipe clamp for securing pipe ¾" to 6" in diameter to standard vee head pipe stands. The Hold-E is a steel frame clamp and utilises a quick release button that allows the welder to open and close the gripping arms in seconds.

The Hold-E clamp is designed specifically for holding pipe during flange fit-up, short pipe lengths or when fabricating pipe with branches. It can also be used with fittings clamped to vee heads for fit-up work.

Operation of the Hold-E is designed to be quick and simple. Pressing the quick-release button allows a ram weldment to adjust to the opened or closed position quickly. After positioning the ram, a few turns on the feed screw secures pipe or tubing to the jack stand in an instant. No special adjustments are required to accommodate ¾" to 6" (19 to 150mm) pipe.

The compact tool, which has had US and international patent applications filed, measures in the stored position 10.31" W

x 2.12" D x 15.75" H (261 x 54 x 400mm), and weighs 8.7lb.

Founded in 1965 in Houston, Texas, Sumner Manufacturing has served the welding and mechanical contracting industry for nearly a half century, creating material lifts, jack stands, pipe fit-up clamps, welding tools and material carts that are currently in use in more than 50 countries around the world, and in numerous industries. The company maintains offices in the USA, Canada, China, the UK and the Netherlands.

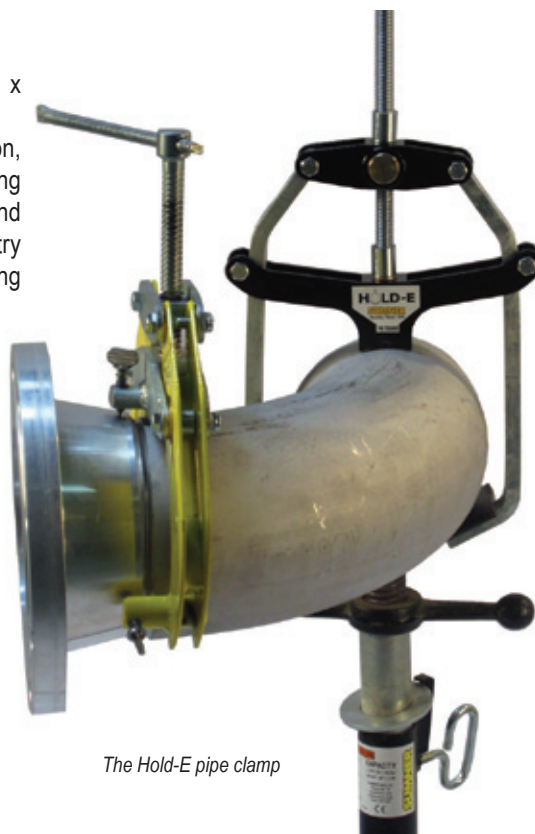
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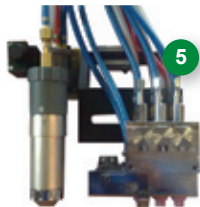
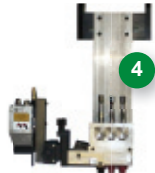
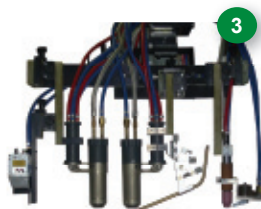
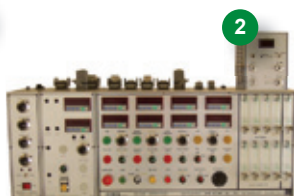
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The Hold-E pipe clamp

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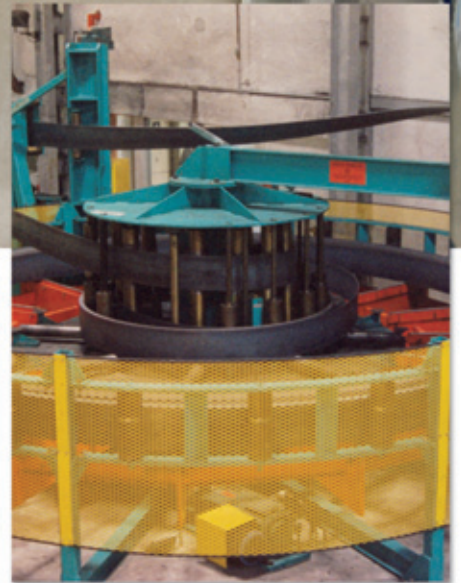
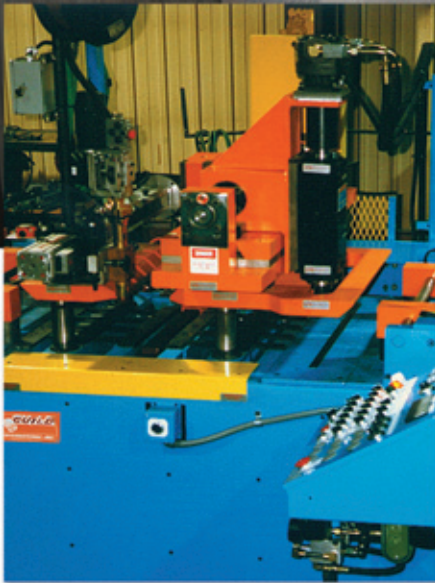
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Low-power induction welder

EFD Induction will display one of its new low-power induction welders at this year's Tube Düsseldorf (hall 06, stand C 26). The welders are the latest addition to EFD Induction's well-known Weldac range of induction welders. "The only differences," says Peter Runeborg, head of welder sales at EFD Induction, "are the new welders' lower power ratings of 50-225kW and their smaller footprints."

"Everything else – including the high constant power factor of 0.95, the use of rugged IGBT transistors, and our unique five-year warranty on all inverter modules – stays the same."

According to Runeborg, the new low-power Weldacs fill a neglected gap in the tube and pipe market. "These smaller Weldacs are especially attractive to fabricators for whom welding is an important element in a larger manufacturing process."

"Such customers need reliable, easy-to-operate and cost-effective welding solutions that can also meet stringent quality and safety standards."

An example of such a manufacturer is automotive component manufacturer Calsonic Kansei, which has chosen one of the low-power welders to weld aluminium components for car radiators and condensers.

The new welder has been chosen by Calsonic Kansei UK for its facility in Llanelli, Wales. "Our choice of EFD Induction was in part motivated by our positive experience of a larger Weldac," says Peter Tomas, production engineer at the Llanelli plant.

"The larger Weldac achieved high uptime, and gave us very little trouble. And

when we did need after-sales support, we received prompt, professional service from EFD Induction."

EFD Induction will be demonstrating one of its compact Minac induction heating systems at Tube Düsseldorf. The smallest Minac weighs only 50kg, but still packs a maximum output power of 10kW.

Even the smallest 'Twin' model – which features two fully independent power outputs from one system – weighs a manageable 74kg. The Minac is popular with service companies that want the reliability and speed of induction on-site.

EFD Induction as – Norway
Email: sales@no.efdgroun.net
Website: www.efd-induction.com



Peter Runeborg, head of welder sales at EFD Induction

Circular sawblades

EXCLUSIVAS Jaufasa manufactures circular segmental sawblades in HSS steel grade and circular tungsten carbide sawblades. This type of sawblade is used in the metal industry by manufacturers of aluminium, copper, brass, stainless steel pipe, carbon steel pipes, general steel profiles and steel rail profiles.

Its sawblades are manufactured with quality raw materials with CNC machines to obtain high quality precision tools.

The Jaufasa sawblades are used in more than 40 countries worldwide for the most important companies of the metal industry.

Its range of sawblade production ranges from 250mm diameter up to 1,800mm to cover all the cutting process in the market. To satisfy customers' requirements it has standard production and special production in terms of diameters, thickness and other special executions.

Jaufasa – Spain
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Precise pipe measurement


IN the steel industry and particularly in pipe manufacturing, quality and dimensional accuracy are essential. By integrating in the production line the automated measurement of all produced pipes using contact-free measuring systems, dimensional accuracy is significantly increased, and the process is faster and less complicated than the manual measurement of production samples. Robust

LAP laser systems have proven themselves for years in real-world applications. They measure external diameters and ovality online and immediately identify flaws. LAP measuring systems help maintain consistent dimensions, reduce scrap and increase throughput.

Round pipes and rectangular pipes, high-pressure pipes, water pipes, oil and gas field



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pipes, boiler and construction pipes, axle and roller bearing pipes can be measured. Depending on the size and application, they are welded or manufactured without seams. Many pipes must withstand high pressures and external and internal forces. Quality and dimensional accuracy are essential.

The greater the dimensional accuracy of the pipes leaving the rolling process, the less they have to be refined, there is less scrap, and production is smoother. The time it takes to lay long oil and gas pipelines is significantly reduced when the pipes are dimensionally accurate. "It's amazing," notes Torsten Krüger, sales manager for the metal industry at LAP, "some manufacturers still use highly imprecise manual one- and two-point measuring systems. Workers place a caliper gauge directly on the glowing metal, sometimes wearing only safety glasses or protecting their face with their other hand." This type of manual measurement is time-consuming, imprecise and very dangerous.

"Modern," "safe" and "effective" are all words that describe automated measurement using contact-free LAP measuring systems. They allow 100 per cent control and high dimensional accuracy by collecting and evaluating data from different pipe production stages as well as the finished pipe. Modern pipe production lines that use LAP laser measuring systems are able to maintain narrower tolerances than required by the relevant standards.

LAP measuring systems allow the systematic verifications of pipes dimensions in the multiple stages of pipe production. Deviations from the target dimensions for the individual stages are transparent; everyone involved in the process is kept up-to-date.

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Portable machining, cutting and welding equipment

THE tube cutting machines of the Protem TT-NG series are accurate in cutting and/or bevelling tubes and pipes of all schedules individually or in one simultaneous operation. These machines are especially designed to machine heavy wall tubes and pipes. They are very robust and can be installed in various positions.

Their split frame configuration allows their opening in two half-shells. For the manual clamping four independent adjustable jaws are used.

The machines have a rear centering feature and completely enclosed drive gears for the operator's safety.

The TT-NG can be equipped with ovality copying slides enabling to correct the defects of ovality of tubes and pipes. They can also be remotely controlled for operations in areas under ionising radiations. The Protem

US150 portable pipe bevelling tool is one of the most powerful, robust, reliable and versatile bevelling and facing machines in the world, Protem claims. The US 150 covers ranges of diameters ranging from 5.9" to 20" ID (150-508mm).

The standard tool plate will accept multiple tool bits, allowing up to four simultaneous machining operations. Such operations may include bevelling, facing, counterboring, compound bevelling, OD chamfering, removal of weld joints on tube sheets, and lengthening of tubes on tube sheets.

The US150 features a self-accepting torque system and an integral drive motor. The robust US150 will perform repeatable high quality weld preparations on all types of materials including stainless steel duplex, super duplex, inconel, P91, etc. The electric

BB machine can be used either on-site or in the workshop. This heavy-duty beveller will bevel, face and counterbore individually or simultaneously heavy wall pipes. It will perform repeatable high quality weld preps on most metal pipes including stainless, duplex, super duplex from 3" to 24" outside diameter (88.9mm to 610mm OD).

The machine is a bench beveller, can be fixed on the floor, is easily installed and clamps the outside diameter of the pipe. It can be easily operated by one operator. Used with the optional profile tracking device, it will machine oval pipes, leaving a root face of a consistent width, which is required when using orbital welding heads.

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Low VOC coating for OCTG pipes

FOLLOWING European directive 2004/42/EC on the limitation of emissions of volatile organic compounds (VOCs), high-performance temporary coatings for tubes and pipes usually based on water-reducible

alkyd technology needed to evolve due to the high level of co-solvent contained, required to coalesce. Quaker's response is the development of Quakercoat 394, featuring low VOC, alkyd-like corrosion protection,

and faster drying properties than standard water-reducible alkyds. Quakercoat 394 has a VOC content of 14g/l, which is ten times lower than the level required by the legislation.

It displays a series of benefits for OCTG pipe manufacturers. Drying time is 50% faster to dust-free and 30% to tack-free compared to conventional alkyd technology. Recirculation of overspray minimises waste and consumption. During a recirculation test simulating the same filtration process as used by the company's customers, viscosity, foaming and corrosion protection properties of recirculated product were monitored. The coating has compatibility with Quakercool 2772LF as threading fluid and Quakercool 2853 as hydrotesting fluid, and can be recoated with and over other acrylics, alkyds, primers and topcoats.

Roll forming lines

PM specialises in the production of sheet metal working machines, and in particular roll forming lines for the production of welded and seamed tubes. For around ten years the company has also produced various kind of profiles, for sectors including automotive, storage systems, electricity, road sector (guard rails, road signs profiles, soundproofing panels and ducts), agriculture, furnishing, buildings, doors and windows, and grates.

The company can offer a wide range of solutions for products, including: supplying the whole equipment directly; making the production for some years and then giving the entire plant at an agreed price; arranging for production of the profile with material of customer's supply; and making the production, supplying also the material.

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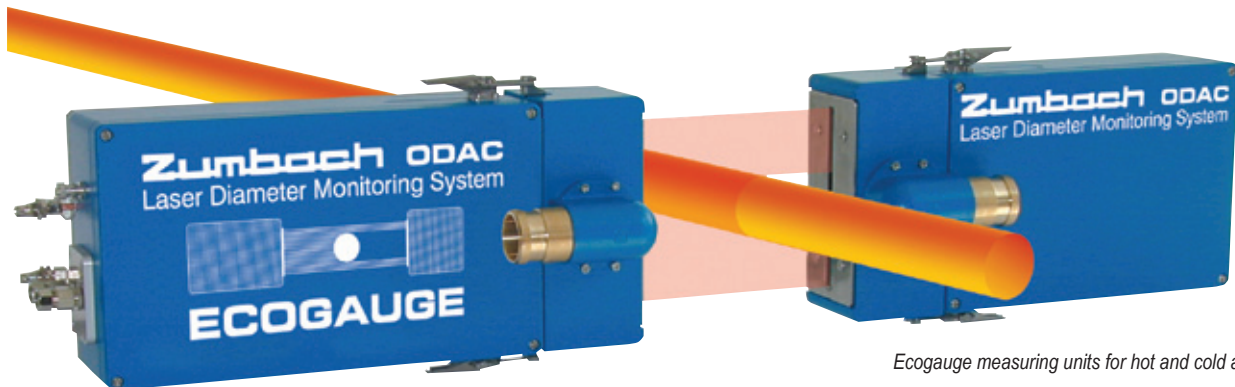
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Compact diameter/width gauges



Ecogauge measuring units for hot and cold applications

ZUMBACH Electronic has introduced an upgraded product line of its Ecogauge systems of single axis gauges. With new models Ecogauge 160 and 550, the range of applications has been extended to a diameter of 500mm (20").

The Ecogauge series is available in various sizes, and is engineered for operation under severe environments in hot or cold processes.

Typical solutions are between rolling stands for bar or for strips or in conveyors,


after hot extrusions, after radial forges or in peeling and grinding operations. Mounting is very flexible and possible in horizontal, vertical or any orientation.

A built in ODAC® laser gauge of the latest design takes up to 2,000 highly accurate measurements per second, of diameter or width/height.

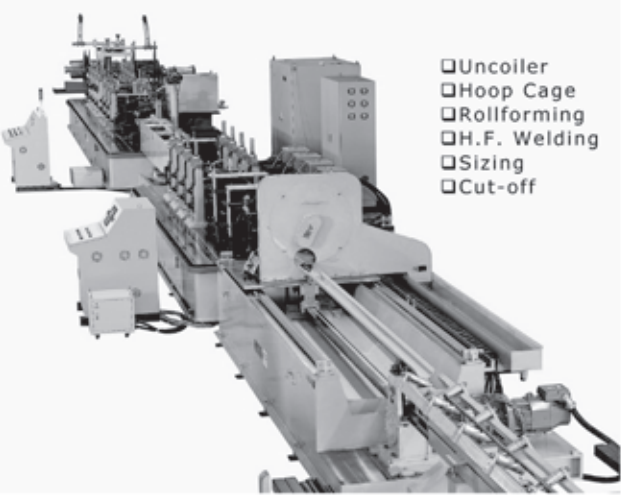
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Telephone: +39 0744 8081
Telefax: +39 0744 812902
Web: www.tubiterni.it



Tubificio di Terni is an avant-garde and rapidly expanding company that manufactures electro-welded stainless steel tubes. High reliability and quality as well as compliance to specifications are ensured by innovative manufacturing systems and continuous laboratory checks performed by means of enhanced test instruments.

The technical agreement of collaboration with the Japanese company Nisshin Steel, leader in the tubes market, the support of the company ThyssenKrupp Acciai Speciali Terni, both shareholders of Tubificio di Terni S.p.A., and the direct link with Centro Sviluppo Materiali lead to the achievement of high and constant quality standards. Thanks to its longstanding evolution, Tubificio di Terni is in the position to manufacture a varied range of products, tailored to specific customer requirements.

Tubificio stands on a surface of 45.000 sq. metres of which 24.000 is a completely covered area used for production, with additional 1.000 sq. metres destined to office space.



Mill machinery and inspection

RAFTER Equipment Corporation manufactures tube and pipe mills, roll forming machines, cut-off machines and other related mill machinery. The company is able to provide equipment for tube sizes from 4.76 to 400mm OD (0.188" to 16"), and has supplied mills using high-frequency



Rafter's RT-4000 tube mill

induction (HFI), high-frequency contact (HFC), TIG/plasma, and laser welding. Its equipment has been used for the production of mechanical, structural, HSS, energy, API, refrigeration, automotive, appliance, and other tubular products.

Rafter has remained busy during the recent economic downturn. The RT-4000 mill is capable of producing energy tubing up to 76.2mm OD x 6.4mm wall (3" x 0.25") with material yield strengths up to 1,000 MPa (150,000psi). The mill was shipped during the week it was originally promised, and a second duplicate mill is expected to be ordered in early 2012.

Last year also brought many mill upgrades – mainly weld squeeze box and turkshead straightener retrofits. Most of the upgrades were driven by the customer's need to produce tubes with heavier wall thicknesses and/or using higher yield strength materials.

In 2009 Rafter expanded its offering through an overseas partnership to include uncoilers, levellers, coil end joiners, strip

accumulators, flying saw cut-offs, and tube bundling and packaging equipment. Although the mechanical portions are manufactured overseas, the electrical and hydraulic portions will be supplied by Rafter from US sources. In addition, after-sales service and support will be handled by Rafter.

Rafter also reached an agreement with HKS-Prozesstechnik GmbH (www.hks-prozesstechnik.de) to become the exclusive United States system integrator for its ThermoProfilScanner (TPS) non-destructive weld seam inspection system. The TPS uses a unique 'lens-less' thermal imaging sensor to capture the heat profile of the weld seam just after welding. The heat profile is recorded and displayed at the operator's interface.

Rafter Equipment Corporation – USA

Fax: +1 440 572 3703

Email: sales@rafterequipment.com

Website: www.rafterequipment.com

WAGNER

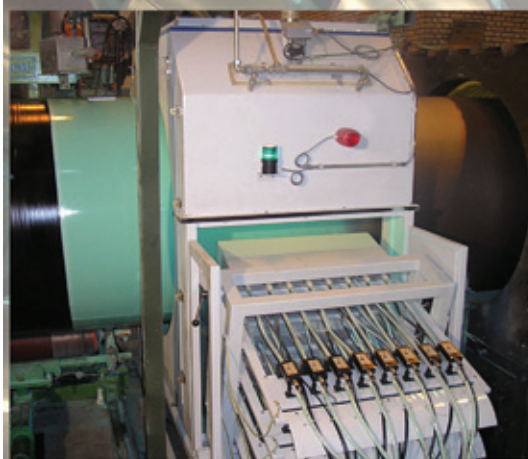
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Tube layer sawing machines

LINSINGER, Austria, says that its tube layer sawing machines are the principle success story in leading seamless tube mills for rapid and clean cut tube layers. The robust Linsinger machines operate at high speed, continuously and reliably under the harshest conditions, providing high output productivity.

Working conditions in seamless tube mills are not known as particularly friendly environments for man and machine. These especially rough conditions can be found just after the cooling bed near the steel mill. Every minute and for 24 hours per day, the rolled tubes are transported onto the cooling bed for tube end processing. Tube layers are formed to cut several tubes to length or to remove the drop ends.

Linsinger's sawing system for cutting tube layers in three-shift-operation uses the latest, vibration-free technology. Crack-free and practically burr-free cutting is possible, with no hardening or thermal influence, and the emission-free cutting process produces



KSA 1600 L cold circular sawing machine for seamless steel tube production

cutting chips that can be easily reprocessed. Tubes with material tensile strength up to 1,400N/mm² can be cut, and the frictionless machine design without drive belts ensures tight tolerances.

Linsinger has an in-house, fully automatic tooling manufacturing facility that offers perfectly matched sawing machines and

tooling from a single source. The company also provides turnkey saw blade repair shops and operator training.

Linsinger Maschinenbau GmbH – Austria

Fax: +43 7613 8840 951

Email: maschinenbau@linsinger.com

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“Based on our experience with T&H mills, we expect to see increased production, profitability and competitiveness.”

- Joao Groth, Director of Production



An Inductotherm Group Company

When Joao Groth, Director of Production at Brazil's Aços Groth needed a new mill, he interviewed five companies before choosing the WU40-11 High Frequency Structural Mill from T&H Lemont. “I was impressed that the T&H mill not only had the capabilities I was looking for, but also included the tooling,” said Joao. The mill significantly increases their competitiveness, making Groth one of only six companies in Brazil that can produce tubes up to 6” in diameter and ¼” thick. Established in 1987, Aços Groth is a major producer of carbon steel tube products in Brazil and parent company of Brazil's National Tubes. Now in the process of purchasing WU20M-11 High Frequency Mechanical Mill for National Tubes, Joao said, “Based on our experience with T&H mills, we expect to see increased production, profitability and competitiveness.”

For more information, call 708-482-1800 or visit www.thlemont.com, fax 708-482-1802 or email: wheller@thlemont.com

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Design to avoid crevice corrosion

PROCESS pipe work is extremely susceptible to crevice corrosion at pipe supports, resulting in replacement of entire sections – failures can potentially have catastrophic results.

The Stauff ACT Clamp is an innovatively designed solution for the installation of

pipework where anti corrosion properties are paramount – eg in the field of offshore oil and gas exploration. Its design, based on the tried and tested Stauff Clamp according to DIN 3015, offers installation time reduction and long term cost savings due to extended service intervals.



Stauff ACT Clamp (with highlighted rubber strips)

Throughout its development, Stauff ACT Clamps have been subject to stringent testing at the company's in-house facilities in Werdohl, Germany. In order to ensure credibility of the product, the development process also involved independent testing. To achieve this, the services of Sheffield Hallam University, Centre for Corrosion Technology have been utilised.

In a controlled laboratory environment, a salt spray test has been applied to various clamp configurations holding AISI 316 stainless steel tubing.

Stauff – Germany
 Email: k.petri@stauff.com
 Website: www.stauff.com

Belt grinding machine

BOSSI Srl – Macchine Finitura Metalli, a leader in the manufacture of machines for metal surface finishing, has acquired an important order concerning the finishing of titanium bars for aeronautical use, up to a diameter of 430mm. The supply consists of a belt grinding machine, Mod HO/2UL Special, for reducing the surface roughness before ultrasonic non-destructive testing.

For avoiding any contamination of the material, the machine works with pure water, and for this reason almost all of the grinding machine is made of stainless steel. The adjustment of the different diameters is automatically made by PLC, as well as the working pressure compensation.

The machine is equipped with a special washing circuit for removing the abrasive slurries even inside the hoods containing the abrasive belts, an outlet drying system and centralised greasing equipment.

The machine has been completely designed by means of a new generation 3D system with automatic processing of the bill of materials, printing of the detailed drawings regarding the parts to be manufactured and the assembly drawings. With this system it is possible to show the machine development to customers step-by-step, and to make customisations during the design phase.

Bossi Srl – Macchine Finitura Metalli – Italy
 Email: info@bossi-srl.com
 Website: www.bossi-srl.com



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General Manager – Mauro Mura



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Filter for oil emulsion

EUROMAQUINA has further developed FILTRA.4, an innovative filter for oil emulsion with the following characteristics: reliable and homogeneous filtration; thus better tube surface and seam weld quality; no civil works needed; one filter unit can operate for up to three tube mills; easy installation and operation; zero consumables, zero maintenance; and reduction of cost of waste

disposal. Thanks to this filtering system, it is possible to obtain a high cleaning level and a complete removal of the non-soluble oils with minimum operating costs.

Euromaquina, with more than 45 years of experience in the tube and pipe industry, together with the University of Valencia (Spain), has recently optimised the design of the system in order to obtain higher

performance and lower manufacturing costs.

These improvements have further led three important companies to trust FILTRA.4: One FILTRA.4/1000 unit was delivered in February to Kalibre Boru, Turkey. Kalibre Boru is one of the top producers of precision welded tubes and precision cold drawn tubes.

One FILTRA.4/1000 unit will be supplied in March to Metalurgica Golin, Brazil, for emulsion filtering of its new OTO 127.6 production line. Metalurgica Golin is a reference in the Brazilian industry, manufacturing automotive parts since 1958, and now entering into its ERW tube production.

Tubos Reunidos, Spain, which is a leading seamless tube manufacturer, uses FILTRA.4 for its special hydrotester delivered by Euromaquina.

Euromaquina provides new and revamped equipment for tube manufacturing and processing and thus can integrate the FILTRA.4 into new or existing mills.

Laser cutting

MAZAK 3D Fabri Gear, from Yamazaki Mazak Optonics, is a 3D laser cutting machine for large tube and profile processing. It allows non-stop cutting of different shapes with a single machine set-up, using a universal focal torch (7.5" and 5") to obtain the right angle inclination in every point. This ensures a perfect match between cut parts having different shapes, and realises a proper chamfering for welding operation. This technical feature allows efficient processing on structural parts for carpentry construction.

The machine is equipped with four chucks to process long finished parts, automatic and compact centring clamps to minimise material scrap, and both side longitudinal movement.

Yamazaki Mazak Optonics Europe NV – Belgium
Website: www.mazaklaser.be

Euromaquina – Spain
Website: www.filtra4.com
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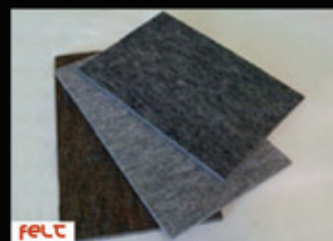
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Production of 30mm workpieces

THE ACS®+BDM30 production system can now produce workpieces starting at 30mm in length. Previously, the minimum workpiece length was 100mm but now the system can produce shorter lengths.

This design innovation significantly expands the range and utility value of the system while preserving the familiar advantages of ACS®+BDM production

system – having one machine that gives the flexibility to produce workpieces starting at 30mm in length up to the maximum possible lengths of 2m, 2.5m, 3m and 3.5m.

Combine this with the simultaneous cutting of two, three or four workpieces and you can be producing up to 11,000 workpieces per hour (reference product Ø12x1x30mm, for quadruple cut with material grade E

355 (ST52) and an initial material length of 6,000mm). In the meantime, until you can put your hands on the machine at Tube 2012, watch the video. You will find it on the company website – it is an impressive demonstration of the efficiency of the system.

Rattunde – Germany
Website: www.rattunde.com

New hot sizing mill

BRANDT Engineered Products Ltd has introduced a new hot sizing mill to accommodate a wide variety of specifications. The hot sizing mill is designed for maximum throughput, with three stands, positioned 90° to each other, that are adjustable electronically from the operator station.

Productivity is improved due to the functionality of the mill. Each roll stand is

designed with a quick-change feature to minimise change over time. Each stand can pivot to a horizontal position, to allow quicker and easier size changeovers and maintenance. Once horizontal, the pipe can bypass the hot sizer system, and continue on the conveyor line. The mill can manufacture according to API standards, in pipe grades N80, L80, C95, P110 and Q125, and features fully automatic, semi-automatic and manual

operation modes. The pipe diameter range is 114.3 to 346.075mm (4.5" to 13.625"), and wall thickness ranges from 6.35 to 15.113mm (0.25" to 0.595").

Brandt Engineered Products Ltd – Canada
Fax: +1 306 791 0363
Email: info@brandt.ca
Website: www.brandt.ca



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Stainless Steel Forming Line



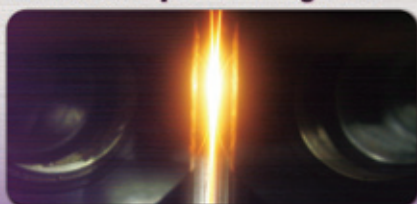
Carbon Steel Forming Line



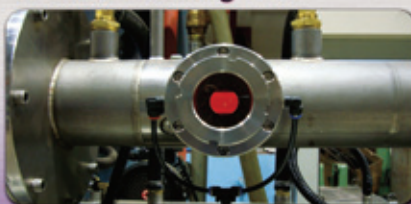
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- ❖ Bright / Dull Annealing Equipment
- ❖ Laser Welding Tube Forming Mill
- ❖ Plasma / Tri-cathode Welding Equipment

Draw cell

NEW drawing equipment with toothed rack drive has been designed and built for drawing of steel tubes up to 140mm diameter by Bültmann.

The single 1,200kN draw bench works at a drawing speed of up to 80m per minute; the drawing length amounts to max 20m.

The installation is equipped with tube separation, prebench as lifting table, draw bench with toothed rack drive, motorised adjustment of mandrel rod counterbearing, die stand with suction device, tube brake, high-performance sampling saw, scrap trough and trough for finished material.

The special features and highlights for the installation are: high efficiency and short change-over times; mandrel rod changing device; power driven die adjustment; material buffer for charging and discharging device; feeding and discharging system at operator's side; high availability at low energy costs; two individual 500kW drives; maintenance free AC motors with straight bevel gear pair; patented energy recovery with ancillary device for starting the draw; and toothed rack drive.

The draw cell is characterised by short change-over times, as only the drawing dies and drawing grippers must be changed in a production interruption. The careful collection of tubes at the end of the process is carefully undertaken by collecting arms. The change of the mandrel rod is automatically effected. Consistent use of plastic material avoids surface damages – the tubes to be produced are not in contact with metal parts.

Bültmann GmbH – Germany
Website: www.bueltmann.com



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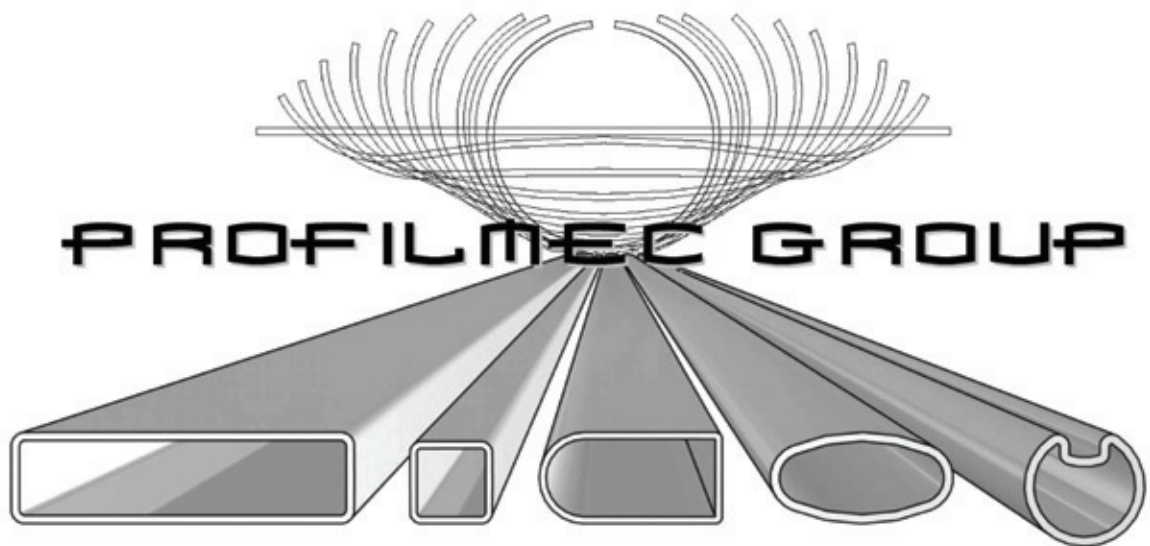


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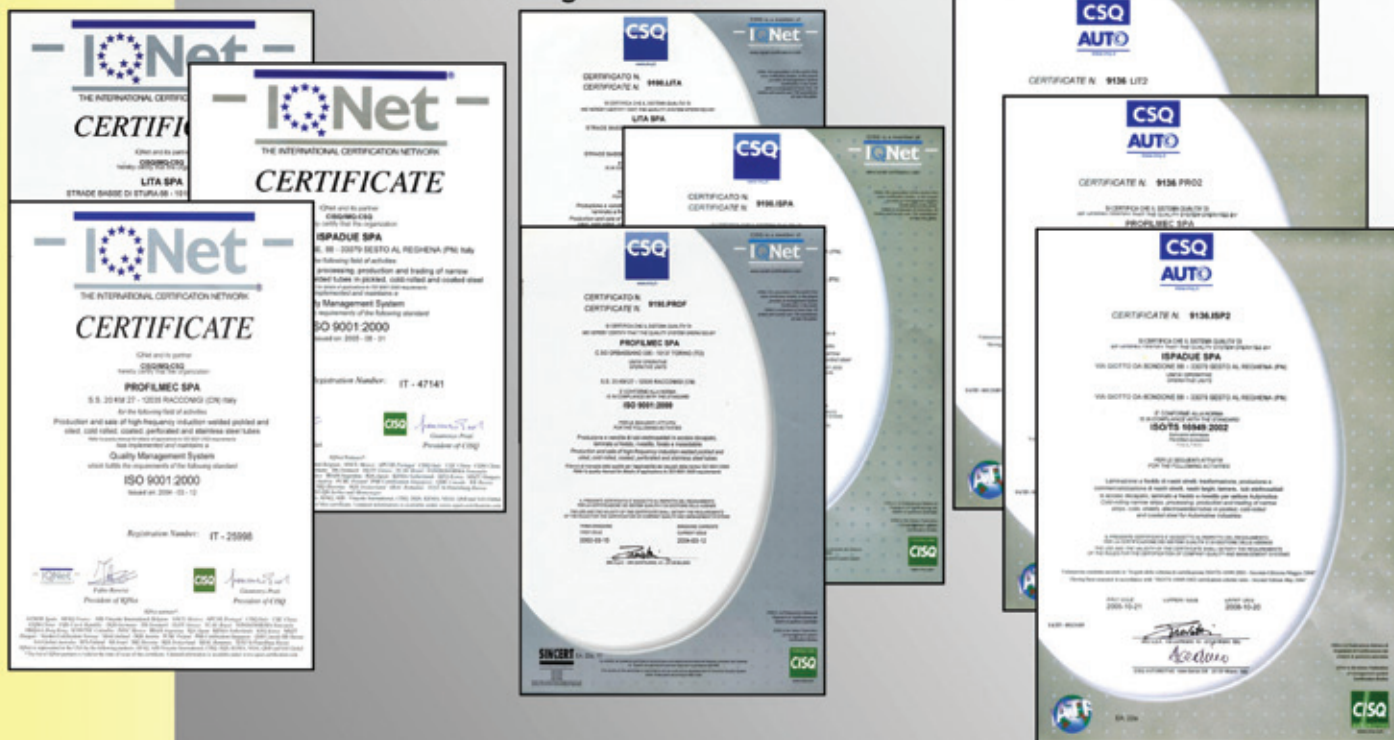
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PROFILMEC GROUP

The Profilmec Group believes in the importance of quality certification in today's markets. For this reason, all the companies belonging to the Group are certified in compliance with UNI EN ISO 9001 (updated ISO 9001:2000). In 2005 Ispadue also obtained the certification ISO/TS 16949, a technical specification for the Automotive Industry. In 2007 Profilmec and LITA got the same acknowledgment.



In addition, Profilmec Group believes in the fact that **sustainable and environmentally friendly development**, together with the prevention of the pollution, are features that no industrialized company can be allowed to neglect.

For this reason, in 2011 Profilmec and Ispadue obtained the prestigious certification **UNI EN ISO 14001**, an international standard based on voluntary participation that provides for specific requirements of Environmental Management System (SGA).



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DIVISIONE SIDERURGICA

Tube coatings

WHEN seeking high wear consumable tooling in rotary draw bending, the obvious items are internal mandrels and external wiper dies. These tools are in constant friction and under substantial load and pressure to support the tube in the bending process. As the severity of the bend increases (tube OD gets larger, wall thickness gets thinner and/or the centreline bend radius gets tighter) the support needed from these tools increases as does the pressure exerted on them. As these dies are in a fixed static position relative to the tube being bent, it is imperative that close attention is made to the materials these dies are made from and the type and amount of lubrication applied.

As the tube materials change so should the materials for the mandrels and wiper dies as well as the lubrication type. Unfortunately, in many cases, especially in a high production environment, decisions on mandrel and wiper material type get based on an attempt at using one solution for a myriad of variables – the misconception goes, if we use a soft material for these dies, they cannot scratch the tube regardless of the material type, or even if the lubrication selection (or amount) is inadequate, intermittent or even lacking altogether. Enter the old standby, aluminium bronze. There is no question that the use of this material for wipers and mandrels works (and for forming certain materials such as titanium and nickel alloys it is the material of choice) but generally speaking it is never the most cost effective solution. It should be noted that as the bronze material requires no post machining heat treating, that is possible to get replacement dies more quickly.

However, the raw material cost fluctuates wildly and in a high tool changeover environment this volatile pricing for a consumable item radically affects profit margins. Recent pricing of €7.50 per pound for Ampco (aluminium bronze) has been reported. There is little chance to salvage a mandrel due to wear once it is too undersized to properly support the tube; it is simply scrap material at that point.

It stands to reason that a harder material that will hold up longer is potentially a better consideration. On the other end of the spectrum there are numerous coatings over hardened steel that can have merit in solving the tool cost versus bending production equation. Many of these coatings have been used effectively with a variety of tube materials but have other drawbacks that in many cases are also too costly to bear. It is not hard to understand that in addition to the base cost of the tool steel that all the process costs add up substantially. The other obvious issue is all the manufacturing steps take additional time to execute.

In most cases a simple solution is the best. A plating process known as industrial hard chrome (hexavalent chrome) has been used effectively for bending tooling for almost as long as ball mandrels have been used in tube fabrication. Hard chrome should not be misunderstood as its cousin decorative chrome (trivalent chrome). Hard chrome when properly applied should have a minimum and uniform thickness of 0.001", with a preferred minimum of 0.002" on both sides of the tool.

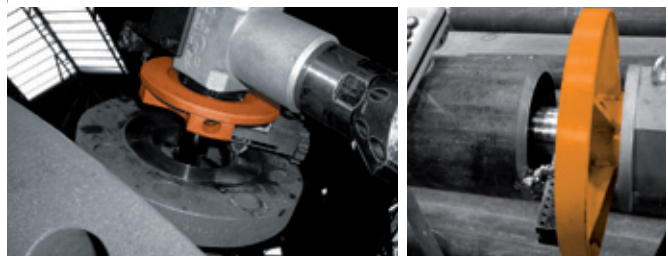
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South Africa will once again be participating at the prestigious Wire and Tube Trade Fair in Dusseldorf, where four firms from the Tube and Pipe Sector will be exhibiting a wide range of top quality products, manufactured in South Africa. The South African Pavilion is guaranteed to be a show stopper, as always.

WIRE: HALL 17 STAND NO A15

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Wire and Tube 2012

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Plate rolling

CARELL Corporation has introduced a new HTH 20-150 four roll, double initial pinch, plate bending machine designed for manufacturing efficiency by using an automated work cycle for the production of cylindrical and radius segmental parts. This Hi-Tech is designed to rapidly produce radiused and cylindrical parts from start to finish at the touch of a button in a cost-effective manner. The machines are engineered for high-speed continuous production with easy set up using durable mechanical and electric limit devices. Add an auto loading and ejector system and the Hi-Tech unit becomes a powerful production tool for increasing throughput while reducing handling time to an absolute minimum.

The HTH Series boasts standard features that include automated bending cycles, top roll and pinch rolls driven, hardened and polished rolls, rapid high speed rolling velocity, automatic drop-end release at end of cycle, compact space-saving design, top support/deflector and sheet feed squaring arm and back stop. Optional components include: sheet-loading systems, cylinder ejector systems, automated sheet alignment systems, sheet pallet shuttle systems, and special machine configurations for dedicated production jobs.

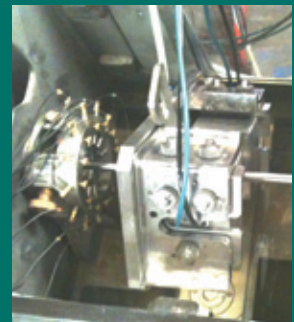
Carell Corporation – USA
Website: www.carellcorp.com

Fast phased array system

FAAST II is a UT phased array system designed for high-speed testing applications and production lines and able to replace more than ten conventional phased array systems working in parallel.

FAAST II patented linear pulsing generator allows multi-beams transmission in one single shot throughout 1D linear multi-element probe but overall, awarding it an advantage, through 2D Matrix probes. As an example, the first industrial application being built by Socomate and using this method is an ultrasonic rail-testing car providing in-track inspection at a speed of 100km/h with only one 1D multi-element probe.

The most important industrial applications are tube and pipe testing in high-speed production lines from which FAAST II is able to detect and process in real time all orientated reflectors in one shot with 2D matrix array probes.



Socomate International – France
Email: serge.c@socomate.fr
Website: www.socomate.com

The FAAST II-phased array system

High power sawing machines

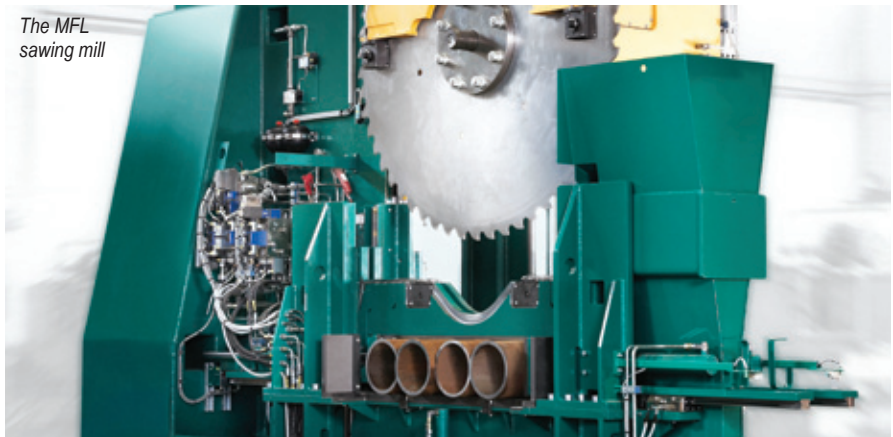
MASCHINENFABRIK Liezen und Gießerei GmbH (MFL), Austria, provides customised sawing and milling equipment for tube manufacturers all over the world.

The company's cold circular sawing machines are used for cutting stainless steel, high and low alloyed steel, structural steel and non-ferrous metals in the form of billets, tubes, profiles and plates. The machines are equipped with carbide tipped saw blades that ensure high performance and a long service life by less costs.

The cutting machines are classified into single cut sawing machines and layer sawing machines. The single cut sawing machines are able to cut billets and single tubes with a diameter from 30 to 800mm. The layer sawing machines are used for cutting of seamless tubes, I- and U-beams, sheet pilings and angles.

The sawing machines are designed for heavy-duty application and have a main drive power range from 22 to 200kW and a servo motor controlled feed drive. The

The MFL sawing mill



Step 7 programmed sawing machines are operated via a visualised operator surface by a personal computer or operator panel. MFL is able to offer stand-alone machines as well as complete sawing lines with inlet and outlet equipment according to the customer's requirement.

During more than ten years of experience MFL made its name for being a competent and experienced partner for sawing and

milling technology and provides technical know-how combined with latest state-of-the-art technology. MFL will be present at Tube Düsseldorf 2012 to present its latest technologies and advances.

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Data processing and recording

ONLINE recording of production data has always played an important role in hose and tube extrusion. In the past data was collected separately at every single production line. Therefore, simple plant computers were used in combination with a printer for extensively printing out the data at the end of the production process. In particular, data archiving was a major problem.

Nowadays, the measuring values are recorded and stored digitally in real time. Especially with regard to the high capacity of the lines and the related data volume this is important. There are two possibilities of data processing. On the one hand, production data is online measured and directly transferred to a central quality assurance system. As there is often measuring data of many production lines available to the operator, a line computer is quickly at its capacity. That is why measuring data is first collected and processed in processor systems, such as the Sikora Ecocontrol, before being transferred to a line computer. Data can be stored daily,



Production data such as hose and tube parameters, statistics and trends are collected and processed

batchwise but also reelwise. The processor systems determine trends and statistics over the entire production process and document quality characteristics of the product for defining Cp or Cpk values. In addition, they provide information on possible surface faults on the hose or tube such as lumps and neckdowns.

The online processing and recording of quality characteristics is a significant progress for hose and tube extrusion

compared to the past. Only 20 years ago, it was important that the hose was "hollow inside". If the wall thickness had oversize or whether it was uniformly distributed around the entire hose circumference played only a minor role. Nowadays, measuring systems measure product parameters with highest reliability during production.

Sikora AG – Germany
Website: www.sikora.net

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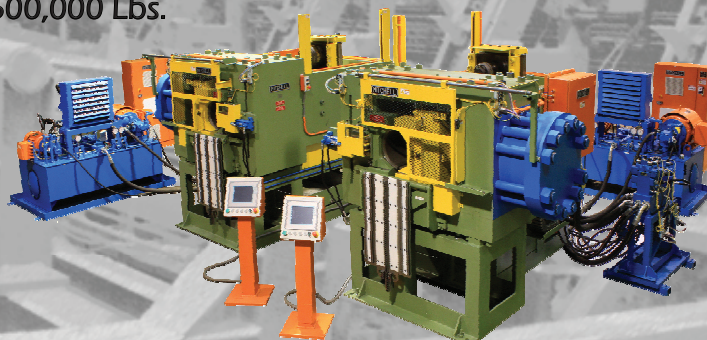
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Through continued investments in technology and innovation, Oto Mills has become the only manufacturer in the world capable of producing tube mills with a complete range from 4.75mm to 660mm outside diameter. The creation of a more complete package of products and services for customers by offering lift trucks and stackers from 16 to 52 tons and the acquisitions of excellent companies has driven the reconfiguration of the corporate structure while maintaining the original values and corporate philosophy that has led Oto Mills for many successful years.

Since September 2011 OTO S.p.A. has assumed the role of parent company containing three business units and one 100% owned subsidiary: OTO Mills manufacturing Tube Mills Lines, OTO Lift Trucks producing Forklift Trucks, OTO Steel, the Motteggiana plant, which produces welded structures and OTO Automation Srl the former Elitre S.r.L. of Sovizzo (VI) which is completely owned by OTO S.p.A.

With more than 300 employees, a total area of 85.000 square meters of which 36.000 square meters is covered, with products completely made in Italy, OTO S.p.A. continues to consolidate and develop its own know-how over time.

Transforming and adapting to the requirements of the market, OTO S.p.A. is offering itself to customers as a partner of great reliability, excellence and innovation with the aim of making history together.

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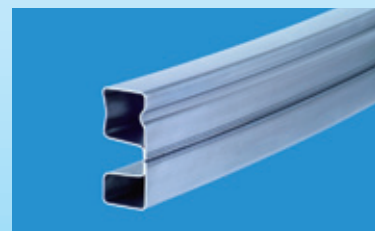


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Semi-automatic mandrel bender

CML USA has introduced the Ercolina TM76 mandrel bender with a bending capacity to 3" round tube and multiple profiles, capable of bends to CLR as small as 1.5D with USB offering unlimited storage of bend programs, material library and job information. Model TM76 is ideal for prototype or daily production.

TM76's control is designed for easy access to manual and auto operating modes, system diagnostics and multiple languages with an interactive touch screen displaying absolute (ABS) or incremental (INC) positioning with inch or metric readout. Model TM76 incorporates programmable mandrel positioning with anticipated mandrel retraction, clamping, pressure die and boost die movements. Tailstock Y and B position display resets to zero after each bend for easy setup while maintaining absolute position. Heavy one-piece steel structure improves rigidity and minimises vibration.

CML USA Ercolina

Email: info@ercolinacnc.com

Website: www.ercolinacnc.com



The Ercolina TM76 mandrel bender

MIG/MAG Series

THE high-performance MIG/MAG torch series "MIG-Alpen-Power" (MAP™) is an to conventional Euro-torches.

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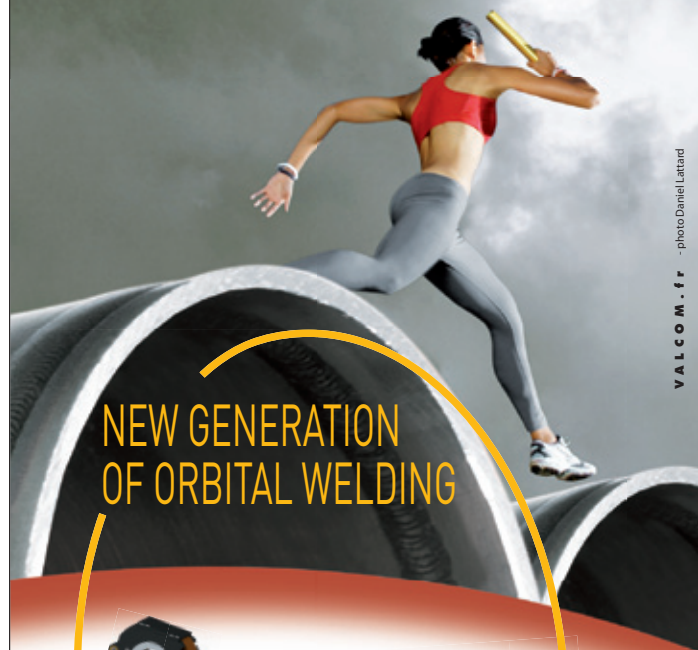
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Rohrman Schweisstechnik GmbH – Germany

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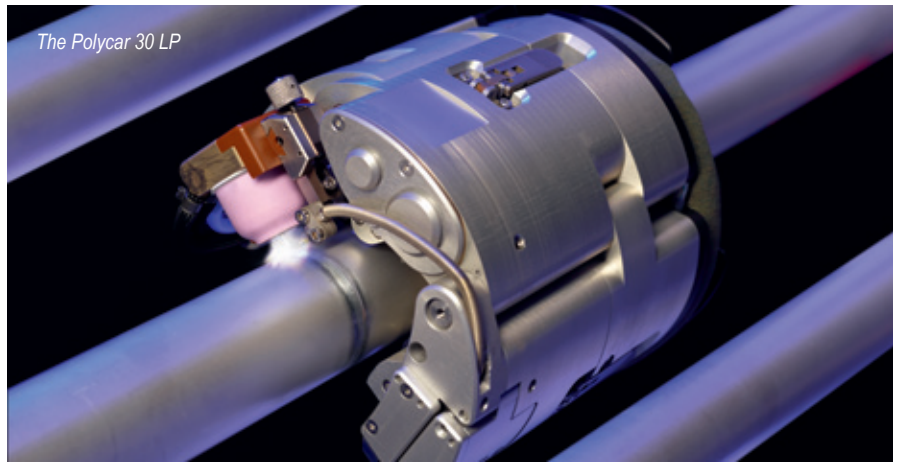
Welding with reduced clearance

POLYSOUDE has unveiled its latest revolutionary carriage-type welding head, the Polycar 30 LP.

This product was manufactured to satisfy high market demand following an increase in the number of more compact constructions and therefore reduced accessibility in terms of radial clearance around tubes to be welded.

In reply to a call for tender for a customer specialised in uranium enrichment, the technical specifications stipulated the following features: excellent inert gas shielded arc welding; welding of aluminium using DC helium; extreme compactness of isometries; rapid assembly and dismantling (in less than one minute); user-friendliness (simplified handling and adjustment); reproduction of all movements of a manual welder and completion of the weld in a series of passes.

It is possible to find many aluminium welding applications, in particular in the aeronautic and automotive industries,



shipbuilding, nuclear power station construction, as well as in the chemical and food industries.

Polysoude has thus designed a welding head capable of welding virtually all weldable materials (including aluminium) with reduced radial clearance of tubes ranging from 32 to 168mm in diameter. The carriage welding head is mounted on

a guide ring, which is specially adapted to the diameter of the tube to be welded. During the welding process, the welding head travels around the tube (the guide rings are mounted on the tube without the use of tools).

Polysoude – France
Website: www.polysoude.com

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Handheld spectrometer

SPECTRO Analytical Instruments, a supplier of analytical instruments for optical emission and XRF spectrometry, has introduced the next-generation Spectro xSORT handheld energy dispersive X-ray fluorescence (EDXRF) spectrometer. The new instrument comes in a smaller, lightweight package that offers better analytical performance, and incorporates many new features.

The new xSORT is designed for high-throughput elemental testing and spectrochemical analysis of a wide range of metals and other materials in the field. It is suitable for applications including positive material identification (PMI) and environmental screening, recycling of alloys, precious metals, and aluminium, plus mining and compliance screening.

"Users were requesting more speed, higher accuracy and greater operating simplicity in the field," commented Dirk Wissmann, senior product manager. "For many jobs, such as material verification, our new instrument delivers highly reliable analyses in two seconds. And for more complex matrices, such as in environmental screening, Spectro xSORT achieves very low detection limits without the need for complex sample preparation."

The xSORT is also available with time and cost-saving features such as an integrated video camera for precise spot testing and visual memory storage. Also available is an integrated global positioning system (GPS) that allows users to quickly return to previously checked locations without time-wasting resurveys.

For metals and most alloys, Spectro xSORT delivers grade identification and material verification within two seconds of clicking its trigger. Pre-installed grade libraries cover common alloys used in industry. Even light-metal alloys require only 12 seconds to process.

"High-volume users, such as service companies doing PMI, may use Spectro xSORT to complete hundreds of inspections per shift with greatly enhanced productivity and profitability," said Mr Wissmann.

Spectro Analytical Instruments GmbH – Germany

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Purge dams and weld analysers

SUMNER Manufacturing has launched new inflatable weld purge dams for use with stainless pipe from 50 to 350mm (2" to 14") in diameter. Inflatable purge dams can be used to quickly and efficiently create a reduced oxygen weld chamber where it is critical to avoid oxidation in the weld, for example when welding exotic metals such as stainless, duplex or titanium.

"Inflatable purge dams provide welders with an inexpensive, time-saving, reusable device that not only performs a critical application of increased weld quality, but reduces argon consumption and increases weld production rate," said Sumner president Rob Collins. "Using an inflatable weld purge dam system, purging a 6" pipe to less than 1 per cent oxygen content takes less than 3 minutes. Other solutions such as paper dams simply can't match that kind of production."

The purge dams are constructed using a primary and secondary inflatable dam at either end that are covered with heat- and



spark-resistant double-stitched Proban® cotton and connected with a 12" to 14" armoured stainless steel spinal hose. The spinal hose has a reactive valve to vent argon to the weld chamber. The primary dam is fitted with a primary hose to inflate the dams, a secondary hose that can be used to bypass inflation and quickly flood the weld chamber with argon, and a hose outlet for venting excess argon. Both the primary and secondary dams have a reinforced eyelet pull loop for feeding and retrieving the purge dam system inside pipe.

The inflatable weld purge dam system works by connecting the primary inflation hose to the argon supply hose. Once the purge dam system has been positioned

with the primary and secondary dams on either side of the weld the flow of argon to the purge dams can begin. Argon inflates the primary dam, flows through the spinal hose and inflates the secondary dam before finally venting through the reactive valve in the spinal hose to flood the weld chamber. Once the weld chamber is fully pressurised, argon will exhaust in the vicinity of the weld and through the argon vent hose. When the oxygen level has reached acceptable levels welding can begin.

Sumner Manufacturing Co, Inc – USA
Fax: +1 281 999 6966
Email: customerservice@sumner.com
Website: www.sumner.com

BuSegno

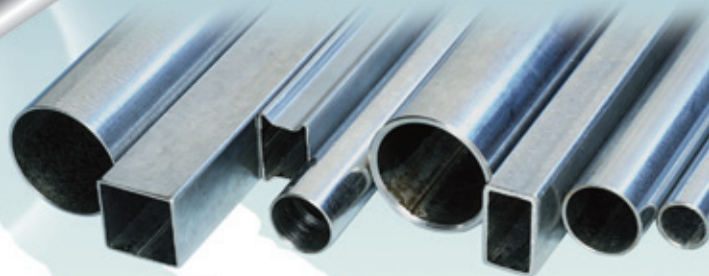


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Extrusion tools

S+C Extrusion Tooling Solutions (S+C ETS), based in Lindlar, Germany, is focused on the requirements of the extrusion industry. The company, which is part of the international Schmidt + Clemens Group, produces tool components and systems for the extrusion industry and focuses on maintaining a close dialogue with its customers.

"In order to provide optimum solutions, we need to be familiar with and understand the customers' processes," said Werner Schwetje, director of S+C ETS.

The company provides an increasing number of services; its engineers, as well as providing customers with technical advice, are also responsible for the design of containers and the optimisation of customers' existing systems. Faulty tools are repaired after diagnostics, right up to installation of the components. This 'relining' takes place at one of the company's relining centres.

S+C ETS supplies a full range of extrusion tools, complemented by customer service that completes the portfolio of the family business. The company is also focusing on internationalisation – agencies around the world represent its products and services with the support of the materials experts and engineers at the parent plant in Germany.

The company is continuing to set benchmarks thanks to the S+C High Grade Steel Academy. At regular seminars and workshops, customers and interested parties have the opportunity to get further acquainted with extrusion tools – an experience that is always closely related to practice.

S+C Extrusion Tooling Solutions GmbH – Germany

Fax: +49 2266 92 509

Email: ets@schmidt-clemens.de

Website: www.sc-ets.com

Tube finishing

SEMA provides equipment and machinery for the straightening, inspection, sawing, end-processing and packaging of semi-finished products as well as complete finishing lines.

As well as consistently investing in the further development of its known product range sema also looks to invest in the development of new products. This is to satisfy its customer's need for more productivity and flexibility together with automation and high quality. The product field packaging machines expands with a new modular Ecoflex tube bundling machine. This is especially developed together with a leading producer for use behind tube welding lines.

For the automation of tube drawing machines sema now provides a modular system of mandrel handling. This innovative automation solution could be upgraded at existing drawing lines. It is particularly useful for tube producers with small or midsize lots.

sema Systemtechnik GmbH – Germany

Website: www.sema-systemtechnik.de

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Specimen manufacturing system

PLANTOOL Oy is introducing a new automated fibre laser-based specimen manufacturing system. This new system is the next generation of the concept, which was introduced seven years ago by Plantool's partner company. This paper explains how the use of laser processing has provided a more cost effective and less labour-intensive way to produce specimens for material testing.

Manufacturing a large number of the specimens of various shapes traditionally involves a combination of manual cutting and CNC machining, but this does not provide the automatic tracking of individual specimens of test material, except within individual test sheets. The improved ASMS method involves the use of laser technology to: (i) automate the manufacturing phases; and (ii) integrate the automated laser system for the entire quality assurance process. The ASMS provides individual specimen tracking by reporting, for example, specimen production rates, problems in specimen production or

specimen marking and cutting times. By following up the information available in reports, quality assurance personnel are able to control the entire process.

Non-contact laser processes are fast and precise. High repeatability in specimen cutting tolerances ensures reliable tensile test results. Clear and machine vision readable laser marking (text, logo, 2D-code, raster) provides individual traceability for test specimens. Operator intervention is minimised, removing the possibility of the human error in making the specimen. A laboratory is able to receive straight and flat specimens for tensile testing.

The geometry of the specimen is symmetrical, because no machining jigs and re-clamping are required. The laser process without CNC machining does not cause strain hardening and increase in the grain size of the specimen material. By laser cutting the heat-affected zone or thermal effects are minimised and damage to surrounding areas of the work piece

is prevented. Laser technology provides the flexibility to manufacture multiple test sample geometries. The manufacturing system allows the rotation of the specimen geometry (for example 45 or 90 degrees) related to the rolling direction.


The ASMS specimen manufacturing process includes test sheet loading, identification, laser marking, laser cutting, specimen sorting and scrap removal phases.

After loading the test sheet into the entry section of the ASMS, the bar code is identified from the test sheet. Simultaneously the specimen manufacturing information is downloaded. After identification phase and prior to laser marking, the width, length and thickness of the test sheet is measured. This information is also downloaded. The setup of the test sheet contains marking data, different geometries and quantities of specimens.


Plantool Oy – Finland

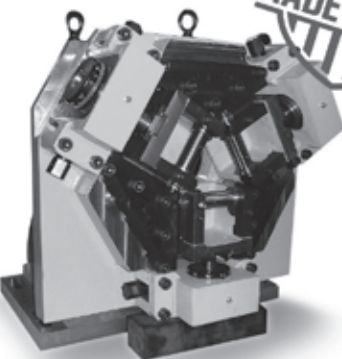
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* under ideal working conditions

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Grinding, polishing and de-burring

LOESER is a leader in technology required to produce high quality surface finishes, working closely with major abrasive belt manufacturers. From simple one-station machines to completely automated multiple-station systems, Loeser custom engineers systems to each customer's exact needs.

New Loeser pressure controlled grinding technology allows for heavy stock removal, tolerance grinding and fine finishing. Abrasive

belts can be changed very quickly when worn out, offering a major time advantage compared to stone grinding or turning. Loeser machines can be equipped with multiple stations in different combinations, completely enclosed or open style. Systems are fully modular and easy to upgrade with additional stations to grow with future requirements.

For mirror polishing of stainless tube, Loeser produces a combined machine

consisting of wet pre-grinding module and centreless cotton wheel buffing using a polishing compound.

For extremely high stock removal applications, Loeser offers high-speed abrasive belt grinding instead of turning, with the machine types RPS376 and RPS377.

Loeser GmbH – Germany
Website: www.loeser.com

Plate and section bending

MG operates in the field of plate and section bending machines. With more than 52 years of experience it is now one of the most known and recognised companies in its area throughout the world.

Currently, it has a production capacity of more than 30 machines a month between plate bending machines and section bending machines. It also has near future plans to expand its factory plant to be able to increase production output.

MG's range of machines uses materials from 500mm to 8m length and from 0.2

to 260mm thick as plate rolls and from 60 to 530mm shafts as section bending machines.

MG offers full hydraulic systems and an exclusive innovative technology that is the result of years of experience and continuous R&D. Its target is to offer the best prices while maintaining the highest quality.

MG offers a wide assortment of accessories that go from systems of loading, downloading handling of materials to the most sophisticated technologies of CNC controls, placing the machine at the

premium end of the scale within the industry. MG offers the most reliable machines the market can offer as well as the best global on site after sales service team.

At the Tube show it will present its model AR80HT touch command, bending machine. This machine is easy to program and can create more complex coils. Furthermore, thanks to its multiple functions, is a suitable bending machine for large production.

MG – Italy
Website: www.mgsrl.com

Solution for programming tube cutting machines and robots

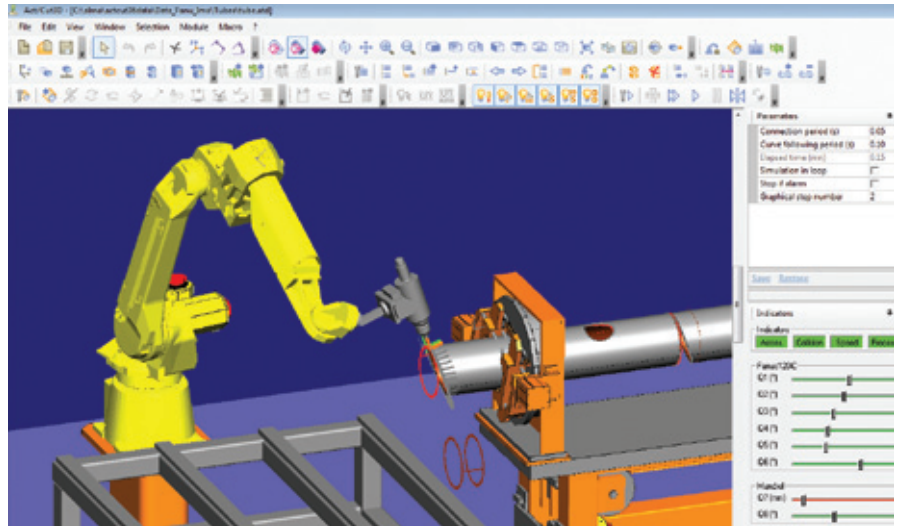
ACT/TUBES is a user-friendly and highly automated CAD/CAM software solution dedicated to tube cutting. It integrates all the programming steps, including the tube modelling, the launch management, the nesting of sections to be cut, the creation and sequencing of cutting tasks, and the post-processing. It can also take into account peripheral equipment such as the loading/unloading units.

3D modelling of tubes and of any kind of section bars can be performed with tube designer, a dedicated module of Act/Tubes. 3D models of bars and tubes can also be generated thanks to existing libraries of predefined tube sections and extruded bars. 3D parts can be imported from various CAD systems, either directly or using STEP, IGES or SAT formats.

In the latest version of Act/Tubes, a new interface dedicated to the metal construction field allows importing 3D files based on the IFC format. Act/Tubes manages the launching orders and material stock.

The tube nesting can be performed in batch mode, with no manual intervention. Act/Tubes can perform a "true 3D" tube nesting on non-straight cuts in order to save material.

The cycle time has been optimised for 2D machines with rotative axes, 4-axis



Act/Tubes can pilot any types of tube cutting machines, including machines equipped with robots. In the picture, a Fanuc robotised cell is shown

machines dedicated to tube cutting, 5-axis machines with one or several rotative axes, and robot cells aimed at cutting tubes.

The programming of 4- or 5-axis machines and robots allows a complete modelling of the machine and its 3D environment, together with the machine kinematics, regardless of the number of machine or robot axes.

Act/Tubes recognises the tube cutting contours, manages the head orientation,

and calculates the trajectories thanks to a powerful algorithm optimising paths while avoiding collisions. It creates and validates the cutting program using realistic simulation and automatic control functions and visual anomaly indicators. ISO programs are generated using postprocessor specific to the manufacturing machines or robots.

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Cleaning tubes

WITH the system Compri Tube-Clean, users can clean new and used tubes for the construction and maintenance of various plants (hydraulic, pneumatic, measuring, air conditioning) and purchased new pipes, which, if not perfectly carried out, can cause serious damage to machinery such as pumps and valves, for which it is necessary to take action under warranty and at own expense. The system can remove residues such as soot, welding residues, oil, condensate, processing waste and so on.

The system consists of a gun with different nozzles, which shoots special projectiles for cleaning tubes, pipes and hoses inside. Patented material projectiles and structure clean the pipes with a diameter from 2 to 300mm for unlimited lengths (even 5-10km).

The main advantages are: rapid and extremely economic system; results beyond the techniques of compressed air, flushing or brush; it can be used to perform preventative maintenance; it can be used on pipes with bends (even at 90°), fittings, T-shaped items, ball valves, diameter change; and it is able to remove grease, oil, disinfect with extreme effectiveness while saving much liquid product.

Alka says it is a shame to invest money in the best technical solutions, in the best machines, in the best materials in order to have high quality products if the reliability is reduced to clean a pipe that, if not performing at the highest level, could possibly cause



Compri Tube-Clean

problems. And all this for a cleaning process that could be carried out with little expense and would take only a few minutes.

Bison is the automatic version of the internal tube cleaning system and is ideal for those who need to clean a large number of tubes per day or at very high speed. In fact, thanks to the automatic loading of projectiles, it allows cleaning of up to one tube per second.

The shot can be carried out manually by an operator, but Bison can also be fully integrated into an assembly line or in an automatic production line. It does not require connection to the mains – its operation is completely by air.

Alka Srl – Italy
Website: www.alka-srl.com

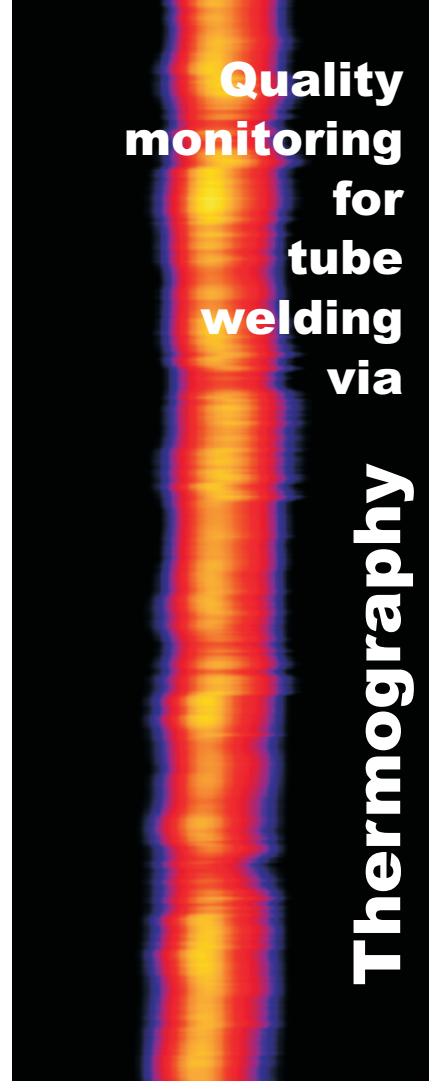
Large pipe bending

JESSE Engineering has delivered a large radius rotary draw pipe bender to a customer in British Columbia. Primarily to be used in the manufacture of coated pipe elbows for the oil and gas industry, the bender was furnished with capability for up to 10" IPS bends at 20 times diameter.

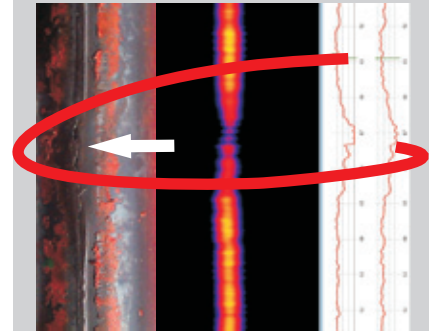
The rotary draw bending process was selected to provide better bend quality, faster throughput and more well defined tangent points than the press bending or roll bending processes. The cold bending process also preserves the integrity of the anti-corrosion coating of the pipes.

Pipe bends planned include 6", 8" and 10" IPS at 15D and 20D. All forming dies feature springback compensation to ensure accurate bend radii within 1%.

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The Detroit Auto Show

The Maserati Kubang will be made in America – but not so you'd notice

Fittingly enough, Maserati's entry in the sport-luxury SUV segment – the Kubang – made its US debut in the city in which it will be built: Detroit. The car unveiled 10 January at the 2012 North American International Auto Show shares a platform with Chrysler Group products Dodge Durango and Jeep Grand Cherokee, this last a corporate cousin in the Fiat Group. The production version of the Kubang will come out of Chrysler's Jefferson North assembly plant, for export all over the world.

But it is the Italian strain in the car's lineage that Modena-based Maserati is at pains to emphasise. The Kubang, which originated as a concept of the Italian designer Giorgetto Giugiaro and was tried out on attendees at the Detroit Auto Show of 2003, features a body designed at the Maserati Style Center headed by Lorenzo Ramaciotti. It will have its own hardware, including a new V-8 engine built in Maranello, Italy, by engineers from Ferrari (another Fiat relative) and Maserati. Its electronic systems will be developed in Italy by Maserati engineers. In Detroit for the show, Tamara Warren reported in the *New York Times* that the powertrain of the Kubang will be shipped to Michigan and mated to an 8-speed automatic transmission to be produced in Germany. The suspension, brakes

and steering will be Maserati-engineered. Assembly of the Kubang will commence next year, but the cars leaving the plant will not bear that name. According to Jeffrey Ehoodin, a spokesman for Maserati, they will carry an Italian name that is "more beautiful".

Ms Warren observed that the theme extended to the personnel at the Kubang exhibit. She wrote, "A group of bespectacled Italian engineers, designers and executives – including Sergio Marchionne, the Fiat chairman, dressed in his customary black sweater and brown leather shoes – constantly milled about" the display vehicle. ("Maserati Kubang: Made in America, but Mum's the Word," 10 January.) Although the new SUV enters production in 2013, a showroom timetable was not announced. Nor were Maserati representatives keen to discuss pricing. In the matter of design, the tactful Ms Warren first noted that the Quattroporte and the Gran Turismo are "salient modern-day reminders" that Maserati knows how to do high style. As to the Kubang, she wrote, "[Its] bulbous proportions... suggest a new form language at work in Modena."

To counter currency-related losses in Japan, Honda is set to produce its \$100,000 supercar in Ohio

Another attention magnet at the Detroit Auto Show was the high-performance hybrid Acura NSX from Honda: the company calls it "a racing-oriented supercar" and betrays none of the Maserati

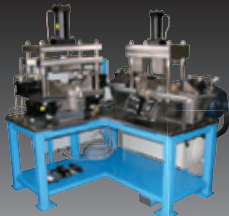


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skittishness about acknowledging an American connection. From Ohio, the sole global production site, Honda will export the car to Japan, Europe, China and other markets. When the NSX goes on sale within three years, at a sticker price of over \$100,000, it will be the most expensive and technologically advanced car ever built in the US by an Asian or European auto maker.

Writing from the show in the *Detroit Free Press*, Alan Ohnsman and Yuki Hagiwara noted the dual significance of Honda's decision to confine production of the NSX to the American Midwest. It confirms the Japanese auto giant's confidence in its US engineers and plants. It also reflects the difficulty of producing autos in Japan as the yen rises. ("Honda to Build Supercar in US," 21 January)

"This is a halo vehicle," former Toyota engineer John Shook told the reporters: a model that represents the highest ideal of a brand. He is chairman of the Lean Enterprise Institute (Cambridge, Massachusetts), which consults on efficiency techniques. "Where you make it makes a statement," he said. "It's a great thing for their local operation, and indicative of challenges in Japan."

The original NSX that sold, for \$89,000, from 1989 to 2005 was built in Suzuka, Japan, and was prized by performance-car fans for its high power and all-aluminium body. Mr Ohnsman and Ms Hagiwara recalled that it gained pop-culture fame when driven by Winston ("The Wolf") Wolfe, played by Harvey Keitel, in "Pulp Fiction" (1994). Noting a destination 30 minutes away, the actor says: "I'll be there in ten."

According to Honda president Takanobu Ito, who was lead engineer on the first NSX, the company plans to race the later model as well as sell it. The all-wheel-drive NSX will have a newly developed two-motor hybrid system that Honda says delivers high performance and handling as well as fuel efficiency. Its mid-engine design houses most of the weight of the powertrain in the centre of the vehicle for optimal balance and agility.

➤ Honda's plan to make its costliest model abroad, disclosed by Mr Ito at the Detroit show, followed an announcement last August that a Honda plant in Mexico will make small cars to help offset losses from exporting models such as the Fit from Japan. As noted by the *Free Press*, the two projects will give Honda the ability to produce its entire vehicle range, from cheapest to most expensive, within North America, a first for any car maker based outside the US.

Transportation

Hopes for inter-city bullet trains across the US hit a speed-bump in obstructionist political terrain

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As summarised by Michael A Fletcher of the *Washington Post*, President Barack Obama’s vision for 21st-Century train travel would seem unobjectionable. In fact, objections have come thick and fast. The “train to nowhere,” in California, came under attack as soon as the first leg of the futuristic high-speed rail network was announced; as did the presidential plan for an advance as transformative as the interstate highway system inaugurated by President Dwight D Eisenhower in 1956.

Mr Obama set a goal of providing 80% of Americans access to high-speed rail within 25 years. But his ambitions have been curbed by high costs, obstinate opponents, and a public that has grown sceptical of government’s ability to do big things.

“Virtually none of the projects has gotten off the ground,” wrote Mr Fletcher. “And the one that has is in trouble.” (“Plans for High-Speed Rail Are Slowing Down,” 15 January.)

So far, the Democratic president has wagered more than \$10bn in federal money on high-speed rail, only to see the effort scaled back, time after time. Republican governors in Florida, Wisconsin and Ohio refused billions of dollars from Washington, denouncing the offers as economically unfeasible notions of Big Government. In those three states, some less demanding transportation goals were achieved: a 30-minute reduction (to five hours) in the 285-mile trip between Chicago and Detroit. But such improvements fall well short of the promise of high-speed rail.

Now the only pending true high-speed rail project in the US is stymied even in a Democratic stronghold known for innovation: California. Mr Fletcher noted that few places would benefit more from fast trains. From San Francisco to Los Angeles – the country’s busiest air route – the skies are so congested that 25% of flights between the two cities are at least one hour late. With the state’s population projected to grow by 50% over the next four decades, the situation can only worsen.

But an early reaction against the proposed route of the bullet train quickly hardened into controversy among the California High-Speed Rail Authority, the watchdog group Californians Advocating Responsible Rail Design, farmers, environmentalists, city planners, and elected officials at the state and federal levels. The number of partisans grows even as prospects for resolution shrink. Imparting a degree of urgency is the 2017 deadline for spending \$3.5bn in federal stimulus money earmarked for the project.

Meanwhile, the estimated cost of the rail network has tripled from earlier estimates to nearly \$100bn. The completion date for the 800-mile system has been pushed from 2020 to 2033, and, the *Post* reported, a recent poll indicates that public sentiment in California has turned against the whole idea.

In an 18 January “State of the State” speech in which he asserted that government should pursue ambitious ventures even in difficult economic times, Gov Jerry Brown of California reaffirmed

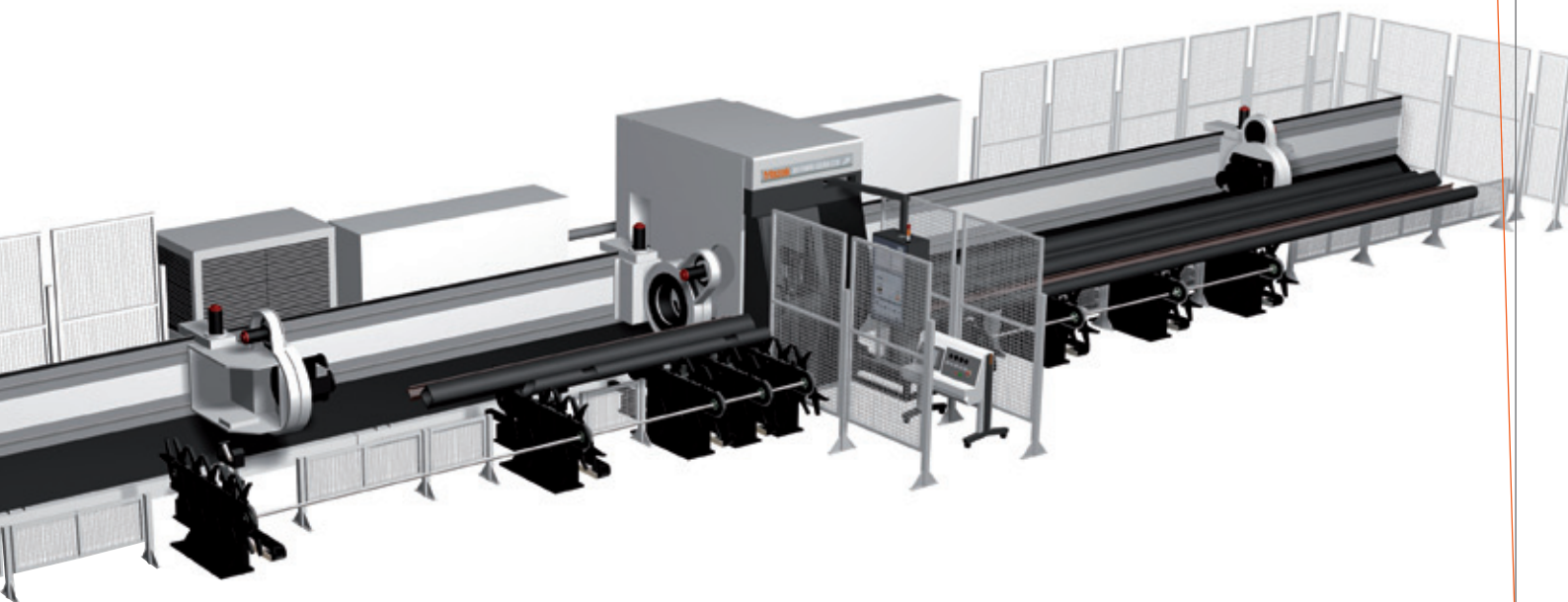
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his support for the high-speed rail line. Mr Brown firmly linked his political fortunes to the proposed 520-mile bullet-train connection between San Francisco and Los Angeles and urged lawmakers to release the \$9bn in state bonds needed to begin the project in 2012.

The governor's focus on the train line has been steady throughout a year in which his second turn in office (his first tenure was 1975-1983) was roiled by a series of budget battles. The speech in Sacramento, the state capital, reached for stirring historic parallels to the high-speed rail project.

"Critics abound, as they often do when something of this magnitude is proposed," Mr Brown said. "The Panama Canal was for years thought to be impractical. And Benjamin Disraeli himself said of the Suez Canal, 'Totally impossible to be carried out.' The critics were wrong then – and they're wrong now."

Steel

Emirates Steel announced it has commissioned its \$6.5mn heavy section mill in Musaffah and can now produce large-size sections, beams, columns and sheet piles: long structural sections with a vertical interlocking system that creates a continuous wall. As reported 2 January in *Gulf News* (Dubai), Emirates – one of the largest steel concerns in the Persian Gulf – has been engaged in a \$2.45bn, two-phase expansion of the integrated complex. Chairman

Suhail Al Ameri said that now, with completion of Phase 2 of the project, Emirates Steel becomes the sole producer of jumbo and heavy sections in the MENA (Middle East and North Africa) region.

The company, based in Abu Dhabi, expects to be able to offer drastically reduced lead times and improved product and cut-to-length services. The new heavy section mill, constructed by Italy's Danieli, is to be integrated with a second 1.4 million metric-tons-per-year (mtpy) melt shop and a direct reduction plant that was started up in the autumn of 2010. Together with further planned expansions, the new facility will help advance an Emirates Steel goal of increasing its production to around 6.5 million mtpy by 2016. According to press reports, by that time demand for heavy sections in the area served by the Gulf Cooperation Council (a political and economic union of the states of the Arabian Peninsula) will have doubled.

Ukraine's biggest steel producer Metinvest said it will commit \$1bn to raise output at its Yenakiyev Iron and Steel Works from 2.7 million metric tons per year to 4.5 million mtpy. Also on 6 December, Metinvest said it had opened a new blast furnace at Yenakiyev, in eastern Ukraine, which would increase pig iron production from 1.8 million mtpy to 3 million mtpy. The furnace is expected to add 1.2 million mt of capacity to the plant's annual hot metal production.

As reported by Reuters, the steel producers' union Metalurgprom said Ukraine is likely to raise its crude steel output to 36.5 million mt in 2012 from 34.6 million mt last year. The union also said Ukraine is

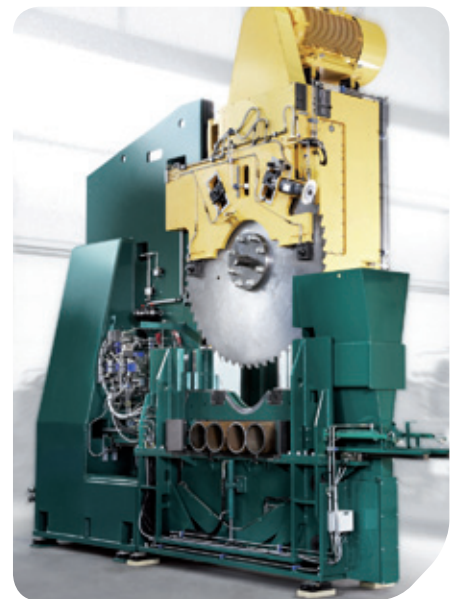
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set to produce 30 million mt of pig iron and 33.6 million mt of rolled steel in 2012. A preliminary forecast for 2011 put pig iron output at 28.9 million mt, and rolled steel output at 32.8 million mt.

➤ In collaboration with Taiwan's largest steel maker, China Steel Corp, and Brazil's Companhia Brasileira de Metalurgia e Mineração (CBMM), a niobium producer, National Taiwan University (NTU) has established a steel research centre to promote the development of advanced steel technologies. At the 16 November opening ceremony, Yang Jer-ren, a materials science professor at NTU and director of the new facility, said: "We aim to become a world-class steel microstructure research centre and to develop energy-saving green steel products." James Lee of *Taiwan News* also reported that CBMM does not have any R&D facilities or laboratories of its own but instead provides support to over 100 academic research programs worldwide. CBMM consultant David Jarreta said that the Brazilian company plans to seek affiliations with other Taiwanese institutions.

➤ Northwest Pipe Co, a Vancouver, Washington-based producer of engineered welded steel pipe products, is planning a significant expansion to its Saginaw, Texas manufacturing facility. The project, prompted by the anticipated needs of large water projects in the US Northwest, will extend the company's diameter and thickness range in spiral welded steel pipe to 126"x1" from 96"x $\frac{5}{8}$ " – the current maximum. The improvements announced 16 January will include two new buildings, upgraded hydrostatic testing equipment, cement mortar lining capabilities, and new inside- and outside-diameter painting equipment. Completion is expected by the end of the year.

Indians overseas

India is fortunate in its nationals working elsewhere and sending money home

Indians working elsewhere sent home just short of \$60bn in 2010. This put India ahead of second-place China in terms of remittances from workers in alternate venues whose ties to their homeland remain strong. And, according to the World Bank, India is likely to have been the No 1 recipient of such inflows in 2011, as well.

This has eased pressure on New Delhi at a time of dwindling foreign investment, and the government can probably rely on more help from its citizens overseas. Perhaps much more. Recently *Dilip Ratha*, a lead economist and manager of the Migration and Remittances unit at the World Bank in Washington, DC, has observed that Indian workers in growing numbers are heading out for North America, Europe and the Persian Gulf.

Mr Ratha co-authored the "Migration and Development Brief" published 2 December by the bank. In a telephone interview from Geneva in December, he shared with the Indian news agency IANS his views on a puzzling trend: workers leaving India, which is "doing reasonably well," for destination countries where the going is rougher. As reported in the *Economic Times* (Mumbai), Mr Ratha tied the phenomenon to cultural changes in India: "This is probably the reflection of an increased access to information and a rise in

the income levels of common people, which has enabled them to buy the air tickets and pay for the migration costs." ("North America, Europe and Gulf Continue to Attract Indian Workers," 4 December.)

While there are no official figures available, Mr Ratha said that information gathered from Indian embassies and other sources confirm the migration. He sounded a cautionary note about the movement, which includes young women and has recently undergone a shift. At first, many unskilled Indian workers headed for the Gulf region.

"Things are changing," said Mr Ratha, who believes that both inbound and outbound Indian migration is set to increase. "[Now] they are also going to the US and Europe. The Indian missions and the government have greater responsibility to protect their interests."

Oil and gas


Extracted from the Deepwater Horizon disaster: a wealth of information on the petroleum released by the spill

"The results shed a brighter light on the fate and behaviour of the oil, and may help to prepare for future spills."

The oil referred to by marine chemist Christopher Reddy is that in the oil-gas mixture spewed into the Gulf of Mexico from the *Deepwater Horizon* spill in April 2010. A senior scientist with the Woods Hole Oceanographic Institution (WHOI) in Falmouth, Massachusetts, Dr Reddy is concerned mainly with the role of the oceans in the changing global environment. But he is a specialist in oil spills; and, as one of four WHOI participants in a recent National Academy of Sciences USA study, he helped amass a fund of information of interest to the oil and gas industry.

Other keenly interested parties will include the US government and the British oil giant BP. An estimated 206 million gallons of crude shot from the riser pipe of the *Deepwater Horizon*, an offshore drilling rig on lease to BP, over the three months following a catastrophic explosion and fire in waters a mile deep and some 60 miles off the coast of Louisiana. As noted by the *Sarasota Herald-Tribune*, "The WHOI study also provides critical benchmarks, such as the ratio of oil to gas, that will prove important as the federal government seeks money from BP to pay for the response and recovery."

The study, released 9 January, presents atmospheric, surface, and subsurface chemical data to establish a "mass balance" of how much oil and gas was released, where it went, and the chemical makeup of the compounds that remained in the air, on the surface, and in the deep water. These provide a composite picture derived not from models but from sampling techniques employed in the Gulf itself, and just 18 months after the leak was capped: "a remarkably short period of time," according to Dr Reddy. ("Chemical Data Quantify *Deepwater Horizon* Hydrocarbon Flow Rate and Environmental Distribution," *Proceedings of the National Academy of Sciences*). In addition to data from air and hydrocarbon samples collected by research vessels and by National Oceanic and Atmospheric



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Administration (NOAA) planes, the paper incorporates data from an ROV (remotely operated vehicle) equipped with a device to sample the leaking fluid at the well; as well as from a WHOI-designed and -built autonomous underwater vehicle outfitted with a miniaturised mass spectrometer developed by the same team. The samples were taken over six weeks in May-July 2010. When combined, the data enabled a new chemistry-based spill rate estimate of an average of 11,130 tons per day (tpd) of gas and oil compounds – close to the official average leak rate estimate of about 11,350 tpd (equal to about 59,200 barrels of liquid oil per day). In total, approximately 4.2 million barrels of oil were released from the well.

Some surprises

But a notable disclosure in the WHOI study is that 36% of the spill never rose out of the vast plume of microscopic oil droplets floating through the deep sea; and that the slick visible on the surface represented only a small percentage of the leaked gas and oil in total. "It makes perfectly legitimate sense that a large portion of the deep sea blowout wouldn't always go to the surface," David Hollander, a chemical oceanographer at the University of South Florida, told the *Herald-Tribune*. Dr Hollander was one of the first to discover the underwater plume of droplets estimated to lie 3,300 to 4,300 feet below the surface. The lead author of the paper, research chemist Thomas Ryerson of NOAA, a scientific agency within the US Department of Commerce, told the Florida daily, "The visible surface slick that people were

riveted by during the months of the spill was really only 15% of the total mass."

Dr Ryerson and his 13 colleagues determined that the airborne plume accounted for about 7% of the total. Another 17% was recovered at the surface through a marine riser. The location of the balance, about 25% of the total, is not accounted for by the chemical data. Tracing it, after two years, is considered unlikely.

➤ The *Deepwater Horizon* tapped a well of light crude and gas. The riser rupture released a mix of hydrocarbons. Some of these substances were thick and buoyant; others dissolved readily. Measured in tons, gas made up nearly a quarter of the total release of 879,300 tons. Most of the gas – methane and ethane – dissolved before reaching the surface. All of the benzene, a carcinogenic liquid, also dissolved before reaching the surface, the study showed. Volatile compounds, such as propane and dozens of others, dissolved in the water or evaporated at the surface. Only the thick, more buoyant crude formed the surface slick.

➤ The scientists were unable to determine whether chemical dispersants applied at the wellhead played a role in keeping most of the oil chemicals and gas from surfacing. "We can't tease out any evidence that dispersant had any effect," Dr Ryerson told Kate Spinner of the *Sarasota Herald-Tribune*. "Or, if it did, what effect."

Dorothy Fabian, Features Editor (USA)

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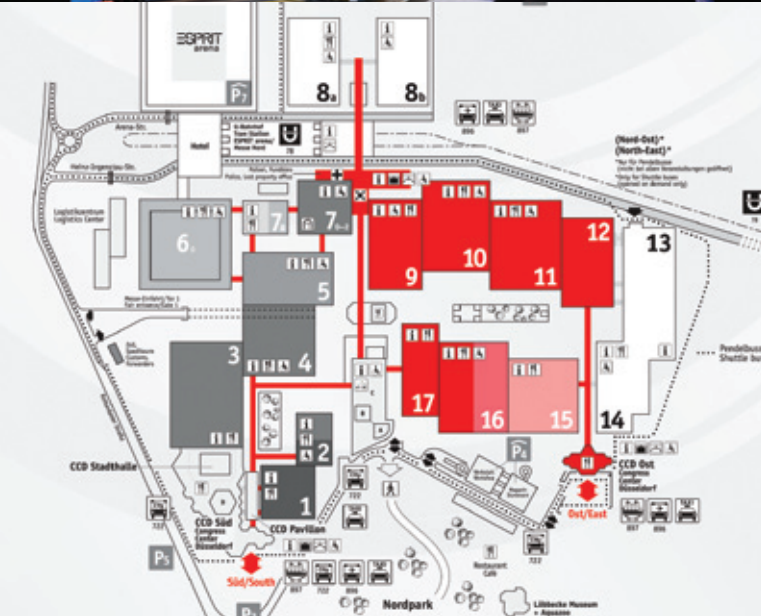
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Tube



Show Venue

Düsseldorf Trade Fair Centre
Halls 1-6, 7 and 7a

Date

26 March – 30 March 2012

Opening Times

Monday – Thursday – from 9am to 6pm
Friday – from 9am to 5pm

Organiser

Messe Düsseldorf GmbH
Tel: +49 211 45 60 01
Infotel: +49 211 45 60 900

www.messe-duesseldorf.de

Entrance Tickets

Admission tickets via
the Tube Online Shop



www.tube.de

Tube Düsseldorf

The world's largest exhibition for the tube and pipe technology industry

When a place name – Le Mans, say, or Pamplona – is associated in our minds with a particular event, the importance of that event is beyond dispute. So it is with Düsseldorf, which to thousands of producers, designers, engineers, suppliers, and customers in dozens of countries means one thing: the biennial International Tube and Pipe Trade Fair, the world's biggest and best showcase for the tube and pipe industry and those serving it.

Düsseldorf is an appropriate choice for Tube 2012. In its development and maturation since 1988, Tube mirrors its host city on the Rhine, whose singular blend

of ancient and modern reflects a will to preserve the best of the old while embracing the promise of the new. 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.

Over the following pages is a guide to Tube 2012 – the most comprehensive such periodic event in our industry. A glance through the list of exhibitors will demonstrate its astonishing reach and breadth. The most renowned names in the industry worldwide are there in force.

But some names will be encountered for the first time both here on the page and later in the exhibition hall. 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 2012 will meet old friends and make new ones. They will strengthen their command of current industry practice and explore tomorrow's methods today.

They will find inspiration and they will find relaxation, in an atmosphere that is extraordinarily hospitable to both.

3R software solutions

Germany

5A12

A LEADER in IT solutions for the tube and pipe industry, 3R software solutions has built a solid reputation for its innovative and efficient software suite. A number of high profile companies from a wide range of fields, including the marine and offshore industry, automotive suppliers, plant construction specialists and chemical engineering, are using 3R software programs to plan their fabrication schedule, test their designs or control their entire workshop flow.

Some key applications offered by 3R software solutions include:

- RoniKolli7, a machine-independent bending simulation program. By using 3D models of the actual tools and machines in the workshop, RoniKolli7 examines whether a tube geometry can be bent on the selected machine, or whether interference or collision require modification of the bending sequence. Depending on the capabilities of the machine a variety of possible solutions are tested, until the software either finds a

suitable bending sequence or determines that the tube cannot be fabricated. In addition, RoniKolli7 can compensate for material factors, calculate precise cutting lengths, and provide customised worksheets with fabrication information. A wide range of import and export interfaces are also available, to make RoniKolli7 a powerful and versatile tool for any tube shop.

- RonilsoBuilder, a CAD application that can not only be used to create detailed tube isometries, but can also import data from a variety of third party platforms commonly used by construction and engineering departments. RonilsoBuilder was specifically designed to meet the requirements of tube and pipe fabrication, which is reflected in the features. Not only can the larger drawings be broken down into logical spools, with all relevant part and fabrication lists, welding documentation, and worksheets but it is also possible to transfer this data to RonilsoBuilder's counterpart in the tube shop, the RAMP system.

- The RAMP system uses the fabrication data provided by RonilsoBuilder to create work packages based on scheduling,

material availability and machine and worker capacity. Data can be provided for all machines, so the operator merely has to confirm the information on the screen, and RAMP balances work orders and resources to create the most efficient work flow for the tube shop.

In addition to IT-products, 3R software solutions also offers workshop consulting services, advising shop owners on how to best optimise and automate their workshops. Each solution is based on an in-depth analysis of the customer's tube shop, taking all requirements and specifications into account. Thus each customer is provided with a unique proposal and layout, meeting all of his needs, rather than a generic standardised product.

Website: www.3-r.de

Acciaitubi SpA

Italy

3D47

ACCIAITUBI SpA was founded 50 years ago by the Berera family in Lecco, Northern Italy. Today, Dr Marco Berera represents the third entrepreneurial generation, guiding the company into the future but with the same strong values in mind: its own history, the sense of belonging to the territory, and the knowledge of the product and manufacturing processes. The company exports 50% of its production, and is targeting 70%.

The company's production range includes gas and water welded and seamless tubes, ASTM pipes, painted tubes, conduit pipes, boiler tubes, structural and scaffolding tubes, Sendzimir, pickled and high resistance tubes. All are endowed with the best quality certifications.

One of Acciaitubi's latest initiatives is Tekne, a new type of high quality steel produced by reducing emissions and fuel consumption. Its most important users have created the Tekne community, a network that aims to finance research projects in energy saving, sustainable development and improvement of the production results. Acciaitubi joined the project, together with CNR, the Italian national research institution, donating 50 cents to research for every tonne of steel purchased.

"Innovation, excellence, social and environmental commitment have always been among the values we profess," said Dr Berera. In June 2011, the company earned UNI EN ISO 14001:2004, the top

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- For gang sawing work (used in sets)

Tungsten carbide Tipped saw blades (TCT)

- Friction saw blades
- Segmental saw blades
- Circular knives
- Services

environmental certification. This document is an additional security for Acciaitubi's customers that the products they buy are made in full compliance with the environment protection rules. After the hard work of its staff, and following two years of consistent investment (€500,000 in 2011 alone), Acciaitubi can say it is a truly zero-impact company.

Fax: +39 0341 284124
Email: info@acciaitubi.it
Website: www.acciaitubi.it

Alka Srl
Italy

7B15

THE Compri Tube-Clean system from Alka Srl can solve the problem of cleaning new and used tubes for the construction and maintenance of various plants (hydraulic, pneumatic, measuring, air conditioning, etc).

Failure to carry out correct cleaning of new purchased pipes can cause serious damage to machinery, including pumps and valves. The Compri Tube-Clean system can remove residues such as soot,



Bison W/D uses both dry and liquid-soaked projectiles

welding residues, oil, condensate and processing waste. The system consists of a gun, with different nozzles, that shoots

special projectiles for cleaning the inside of tubes, pipes and hoses. The patented material projectiles and structure can clean pipes with diameters from 2 to 300mm, in potentially unlimited lengths (even 5-10km).

According to the manufacturer, the rapid and economical system can provide results beyond the techniques of compressed air, flushing or brushing, and can also be used to perform preventative maintenance. It can be used on pipes with bends (even at 90°), fittings, T-shaped items, ball valves and diameter changes, and is able to remove grease and oil, disinfecting with effectiveness while saving liquid product.

'Bison' – the automatic version of the internal tube cleaning system – is suitable for those who need to clean a large number of tubes per day or at very high speed. Featuring automatic loading of projectiles, it allows cleaning up of one tube per second. The shot can be carried out manually by an operator but, if necessary, Bison can also be fully integrated into an assembly line or in an automatic production line.

As the operation is carried out completely by air, it does not require connection to the >>>

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10D56



5D16



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Design - CONDAT - 09-05/2011

<<<

mains. Bison is able to work on internal diameters ranging from 2 to about 32mm.

The Bison W/D (wet and dry) variant allows the programming of a sequence of firing several bullets, and is able to shoot both dry and liquid-soaked projectiles. For example, a dry projectile can be used to remove dirt, followed by a projectile soaked in liquid degreaser, then a dry projectile to dry the residue of the product.

The range of projectiles covers various uses: (C) Coupling can handle diameter variations, and is particularly suitable for pipes with fittings, with diameters greater than 50mm. (PR) Product Recovery is able to handle large diameter variations, and is also suitable for pipes with fittings. (GR) Grinding is coated with aluminium oxide, and is very abrasive, for removing smooth patina. (A) Abrasive, with a flexible abrasive head, is suitable for removing slippery dirt or slightly exposed margins. (S) Standard is a very hard projectile with great mechanical side strength for various uses.

Email: info@alka-srl.com

Website: www.alka-srl.com

Atomat SpA

Italy

5G32

ATOMAT, established in 1968 and consistently grown over the years, is an experienced and consolidated manufacturer of rolls for welded tubes. Its strong economic and financial stability, achieved thanks to a wise expansion policy, allowed the company not only to overcome the general market dip of recent years, but also to maintain its development through continuous investments in advanced technology.

Within the group, the competition posed by emerging producers has been regarded as a challenge and not as a threat.



Atomat has invested in advanced technology

Competitiveness was never pursued by lessening the quality of the raw material and the final products. Instead, Atomat opted to focus on production know-how improvements that generate simultaneous cost containment and higher quality.

For example, the carbides are 100% produced by Multicarb Srl (a subsidiary of the group) using only first quality virgin powders, while the steel comes from selected special steels suppliers.

The heat treatment process takes place only at specialised and certified Italian companies.

Production procedures are characterised by the introduction of high quality, efficient and innovative machinery, such as the multi-function Okuma Multus lathe, with two spindles and handling up to 60 tools, that completes the manufacturing of a piece in a single station, preventing multiple handling of the roll and granting high efficiency and tighter tolerances.

Several other activities, such as the roll rough boring, became fully optimised with the introduction of robots that permit the automatic loading and unloading of working stations with uninterrupted cycles of 24 hours.

Atomat's particular concentration regarding the quality of the rolls produced and the effort displayed throughout the total manufacturing cycle is evidenced by the implementation of sophisticated control procedures and the final inspection and certification performed by means of a 3D measuring machine built by DEA.

The group, which encompasses seven companies with eleven factories in five countries and also includes Officine MTM SpA, a leader in high quality tube mill manufacturing, is able to offer complete turnkey solutions.

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Email: info@atomat.com

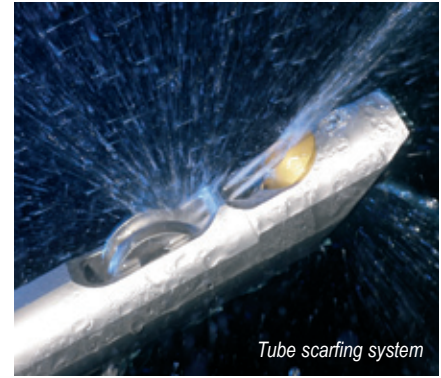
Website: www.atomat.com

Ernst Blissenbach GmbH
Germany **6G01**

ERNST Blissenbach GmbH – which manufactures quality inside tube scarfing systems – offers customers the production security that pipe and tube manufacturers as well as plant engineers desire when it comes to complex production processes.

The innovative BLISSart® custom tools remove the internal weld bead in HF longitudinally welded tubes and impress customers with a high degree of know-how, precision, intelligent technology, durability and an effective increase in production output, resulting in considerable cost savings.

In the nationwide competition "IP 2011", which is an award given by the industry to the most innovative companies, Ernst Blissenbach GmbH was among the top



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RADYNE

Radyne designs and manufactures a comprehensive range of Line Pipe Pre-Heating Coils.

- Pipe Diameters: 50mm (2") to 3050mm (120")
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- Continuous Pipe Section Capability
- Delta T: 200°C (typical) / 250°C (maximum)
- Line Speeds: Typically 200 to 350m² per hour

Radyne applications engineers have the necessary experience in the application of bespoke software which can be used to determine the operating performance, physical dimensions and hence the number of induction heating coils that are required to pre-heat a range of API pipe sizes prior to coating.



26 - 30 March 2012, Dusseldorf
HALL 6, STAND C39 / 40

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Communication with the customer is the foundation of a cooperation aimed at creating advanced solutions.

Highly skilled employees competently address individual production needs, ensuring continuous performance increases in all production phases.

Since the increasing global demand for energy will also impact the tube industry, sustainability constitutes a global challenge for eb tools.

Designing inside tube scarfing systems in such a way that today's developments do not negatively impact future generations has always been one of the objectives of the Ernst Blissenbach company.

At Tube 2012 the company hopes to help drive innovation to extremes: visit the "B8 Summit" to learn about "The Art of ID-Scarfiging."

Email: info@blissenbach.de
Website: www.blissenbach.de

Bossi Srl
Italy

5J31

THE development of specific technologies and the demand for obtaining a higher working quality have helped to create Bossi's grinding and polishing machine for finishing tubes and bars up to a diameter of 250mm. The rugged and simple to use F1 model was conceived for obtaining a high degree of stock removal and at the same time a finishing level (satin-finishing and polishing) that can meet all requirements.



Bossi F1 machine

The structure of the machine is particularly rigid and designed to eliminate any source of vibration. The cabin is integrated in the structure.

Working is wet when using abrasive belts and/or dry with polishing mops. The replacement of abrasive belts is made on the front of the unit very quickly, with no need to enter the machine. The heads operate above the piece, vertically working on it; the piece is transported by a rugged roller conveyor having rolls very close to each other, and able to support a weight up to 600kg/mt. The feeding of the piece to be

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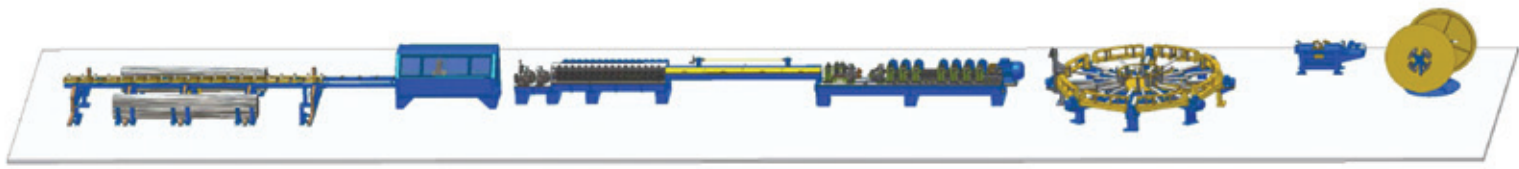
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ASMAG

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<<< worked is made by means of independent and motorised pinch-rolls, with stepless adjustment of feeding speed by inverter.

Helped by the new technologies, the F1 machine adopts a system for controlling and recovering the working pressure, providing pressure that is constant and adjustable on all the processed pieces.

The machine is equipped with a washing system for removing the working slurries and an internal washing system of the working units controlled by PLC.

To further reduce maintenance time, a centralised greasing system allows homogeneous distribution to all the points of the machine. Diameter change is automatically made under PLC control, as well as the electronic control of all the line, with possibility of storing the worked diameters, the variables and the speed parameters. A self-diagnosis system directly signals to the operator any anomaly present on the machine.

Fax: +39 02 9466265

Email: info@bossi-srl.com

Website: www.bossi-srl.com

Bültmann GmbH

Germany

5B21

IN 1972 Rudolf Bültmann laid the foundations for the family-owned company in Neuenrade with its main focus on the manufacture of bar and tube mill machinery.

During the initial years, equipment mainly comprising presses, hydraulic draw benches and finishing equipment were built.

With entrepreneurial courage and creativity the manufacturing programme was expanded continuously and Bültmann became market leader in the fields of "drawing, straightening and peeling".

Innovation, quality, service and customer-orientated functionality were the basis of success for the company's founder Rudolf Bültmann.

Having the same targets, his daughter Petra Bültmann-Steffin and his son Andreas Bültmann have been running the company as the next generation since 1997. Together with more than 130 highly qualified employees, they maintain the high level of product quality, being the company's main feature for 40 years.

The manufacturing programme of Bültmann includes turnkey production lines for the manufacturing of tubes, bars and profiles, comprising among others machines for pointing, internal gripping,

>>>



Hall 6 Booth G32



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drawing peeling, straightening, cutting, end machining, testing, heating, separating and handling.

Bültmann's services include the initial planning, engineering, construction, assembly and delivery. Commissioning on site and the after-sales service are part of the scope of supply.

At the Tube 2012 show in Düsseldorf Bültmann will present new advancements and machines, especially for the processing of tubes and bars. Please ask about the recently developed tube pointing machine, type HAM 150. In booth B21, hall 05 Bültmann will offer personal discussions to familiarise interested visitors with the equipment made by Bültmann using photos, films and drawings.

Website: www.bueltmann.com

Combilift Ltd

Ireland

6D41

COMBILIFT is a leader in the long load handling sector, and manufactures a wide range of 4-way forklifts, all of which are designed for the safe, space saving and productive handling of the large and bulky loads typically handled in the tube sector.

Since Combilift was established 13 years ago it has sold over 15,000 units around the world. The key to the company's success has been its ability to supply tailor made forklifts according to individual customer requirements, and this customised approach has set it apart from other manufacturers.

Robust build and the ability to work inside and out for productive handling operations,

whatever the weather, are hallmarks of the Combilift product range. The trucks work as counterbalance, sideloader, and narrow-aisle forklifts, enabling users to maximise available storage in and around the warehouse. Sideways travel with loads resting on the platform enables Combilifts to work in aisle widths of just 2m, and avoids the need for hazardous high-level transportation of long loads, significantly improving safety procedures.

With fully synchronised 4-way steering ensuring manoeuvrability and flexibility of use, Combilifts can be deployed from the initial stages of offloading raw materials, during the manufacturing process, through to the handling, storage and dispatch of finished product. Capacities range from 2.5t to 25t, with a choice of diesel, LPG and AC electric power options to suit customers' specific applications.

Fax: +353 47 80501

Email: info@combilift.com

Website: www.combilift.com

Condat

France

5D16

AT Tube Düsseldorf 2012 Condat will launch a new and innovative product dedicated to hot rolling of seamless steel tubes: CONDATUB C33. This new formulation was developed using knowledge gained in the field of aeronautic forging where similar processing conditions and constraints exist. Developed as a ceramic-based powder, Condatub C33 is a product with high technical value.

Four-way forklift from Combilift



Condatub C33 eliminates sticking during hot rolling. It also improves internal surface finish quality of hot rolled tubes and eases mandrel extraction operations. Easy to use, it is sprayed inside the tubes before introducing the mandrel (Condat can assist with the choice of suitable spray equipment).

Eliminating the need for additional lubricant, Condatub C33 simplifies the process and reduces waste disposal costs.

Condatub C33 is the economical solution for reducing the overall costs in hot rolling of seamless steel tubes.

Condat's principle philosophy is also to offer products whose chemistry is stable and environmentally responsible. Condatub C33 eliminates the need for lubricants containing graphite and phosphates in the workshops, thus offering a healthier working environment for the operators. Without Borax or SVHC substances, Condatub C33 minimises the inhalation risk of toxic products by the operators and offers a process without effluents.

Website: www.condat.fr

Côntrole Mesure Systèmes
France **6D23**

CÔNTRÔLE Mesure Systèmes designs, develops and manufactures a complete NDT range of products in eddy current and ultrasonic testing methods, which comprise



RotoUTscan for titanium tube inspection up to 65mm

high performance instruments and systems, probes and transducers, accessories and complete turnkey machines with associated mechanics.

Through its products and its remote assistance, Contrôle Mesure Systèmes provides quality and productivity solutions for industrial applications all over the world.

For high quality tubes from diameter 6 to 250mm, welded or not, in stainless steel, titanium, zirconium, but also in carbon steel, CMS proposes a full range of ultrasonic rotating heads named RotoUTscan. Several UT transducers (up to 12) with different angles in accordance with the NDT normatives, are in motion around the tube with high speed (up to 6,000rpm) for longitudinal defect detection and transversal defect detection thickness measurement as well as OD – ID and ovalisation.

RotoUTscan are driven by a fast electronic UTR which is a high accuracy ultrasonic inspection system, for in line high-speed flaw detection and dimensional measurements of ID/OD/thickness.

Employing PCI architecture, instrument operation is made fast and easy via Windows-based inspection screens and intuitive dialogue boxes for ultrasonic set up.

RotoUTscan can be combined with other CMS equipment like EC rotating heads (RotoETscan) or magnetising units with coil installed together in a strong control bench including centring devices. Supervision software named Probus (to collect information provided by NDT equipments), allows the user to display combined signals (UT/ET) and create inspection reports that can be used as control evidence for quality services and customers. Data stored can be recalled for analysis and quality treatment.

Email: contactcms@cmseddyscan.com

Website: www.cmseddyscan.com

Dynobend BV
The Netherlands **5G19**

DYNOBEND BV has developed two new types of machine, one for tube end forming and one for combination bending. >>>



Dynobend will unveil two new machines at the show

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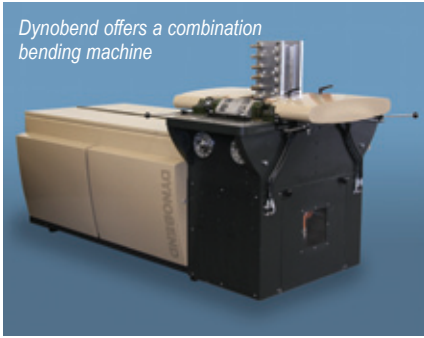
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- Piling machine, Bunding machine, Facing machine



Hall No. 7a
Stand No. F13

Dynobend offers a combination bending machine



<<< The DP15T-16-2 tube end forming machine was developed with a new approach that made it possible to create a machine with maximum benefits. For example, it is able to form both ends of the tube, even with different end forms, without the necessity of intermediate storage. This is possible because of the unique functionality of the machine: working on two sides with a total of 32 dies. The machine has four clamp positions. This, in combination with its freedom for clamping already bent products, results in greater performance.

All movements are servo-electric steered, and deceleration energy is transferred to the next circuit, so the machine has lower energy use. The machine is equipped with Dynobend PC steering, and is very user friendly.

The other development is a completely new version of combination bending machine – a combination of mandrel bending and roll bending (also available in a multi radii version). By constructing the machine in a sophisticated way, Dynobend has created a bending machine with a great degree of freedom: left- and right-turn bending, free form roll forming and multi radii bending brought together in one machine.

Fax: +31 53 850 77 31
Email: info@dynobend.com
Website: www.dynobend.com

Erne Fittings GmbH

Austria

1B25

THE construction of line pipes often requires abrupt directional changes due to topographic changes in hilly terrain or any other unknown installation issues during the construction in populated areas and cities.

Another challenge in line pipe maintenance are repairs where an elbow must be fitted to the existing pipeline segment in the shortest time possible.

Thus, field segmentation of elbows is often necessary and part of normal field segmentation practice.

In the case of typical segmentable elbows, common standards (eg MSS SP 75) refer to limitations regarding the out of roundness of an elbow with $\pm 1\%$. However, these limitations do not take into account the tolerances of the nominal diameter of the pipes and the fittings. Using a new high precision mandrel forming method, Erne Fittings provides elbows, guaranteeing optimum nominal diameters together with tightest tolerances via the whole body of the fittings after cutting with conventional methods in the field.

This enables the field segmentation of elbows during the installation of line pipes with minimum misalignment between pipe and fitting and thus, a convenient way to carry out all welding operations without any adjustments of the bevel ends prior to welding. Moreover, the use of pups (small adapter pipes), which are usually used to enable back welding is not necessary, since the root layer can be welded in high quality from outside only due to the small misalignment of the root face. The use of these segmentable elbows reduces the necessary number of such pups in line pipes and hence the number of circumferential welds as well as the time for adjustments prior to welding. This increases efficiency during line pipe construction and substantially reduces construction time and costs.

Email: office@ernefittings.com
Website: www.ernefittings.com

Escofier

France

5E33

ESCOFIER, SAS, France, is a pioneer of cold rolling profiles on mechanical parts dedicated to the automobile market. As one of the worldwide leaders of this specific technology, its knowledge and associated machines are well known by all the majors OEMs forming threads and splines on shafts utilised in gearboxes and transmission systems. As a result of its long experience, and having successfully developed its Flex Quattroll – a cold rolling machine dedicated to thin wall stainless tubes with low fins capable of working from 5 to 6m per minute – the Escofier product line is now completed

>>>

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Welcome inside

www.larikka.com

◀◀◀ with the launch of its newest three shaft machine simply named Tri-Roll, specially adapted for rolling finned tubes utilised in heat exchangers.

Designed to cold roll fins on steel, copper, or even aluminium tubes from 15mm to 80mm diameters, the three numeric axes supplied on the base version, and the various options available, assure a simple use of the Tri-Roll. For example, the machine is able to stop and recover the finning process on applications such as bent tubing.

Giving a priority to the eco-design and sustainable development, the fully electrical Tri-Roll machine offered by Escofier provides 120kW of power which allows, after adaptation, thread-rolling of the extremities of tubes dedicated to traditional piping applications.

Escofier process engineering teams have contributed to offer, along with the Tri-Roll machine, an optimal disk assembly conception assuring higher quality and tool life. The specific design and development allows aluminium tube manufacturers the opportunity of saving up to 8% of the material cost by increasing the fin depth.

Resulting from this new positioning,

Escofier expects to conquer new market shares in France, but additionally in India through its JV "MTE Escofier Forming Technologies", and in Germany with its newest facility Escofier GmbH.

Website: www.escofier.com

Etna Products Inc
USA **5E11**

ETNA Products Inc, a developer of metalworking lubricants and fluids used in tube drawing, forming, stamping and metal removal has introduced a family of novel lubricant additive technology known as Etna Eco Lube Technology (EELT).

The EELT technology was developed in-house by Etna and it is the result of a focused research and development effort to develop a group of ecologically sensitive lubricant additives that have shown the ability to eliminate mineral oil based products used to formulate drawing lubricants as well as providing a worker friendly and environmentally acceptable alternative

to the conventional chlorinated extreme pressure additives used in lubricants for cold drawing of stainless steel and high nickel alloys.

To learn more about how Etna lubricants formulated with EELT could be of assistance on metal drawing, forming or on metal removal operations please contact Etna Products Inc.

Email: etna@etna.com
Website: www.etna.com

Eurolls SpA
Italy **5E09**

EUROLLS designs and constructs roll tooling made of steel, alloys and sintered materials for the tube and pipe industry. The company has strengthened its position in the world market by securing large-scale contracts in terms of volume and prestige. Major corporations, who themselves are world leaders in their respective field of manufacturing tubes for various applications, have chosen Eurolls as their roll tooling partner for major projects.

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TUBE in Düsseldorf, March 26th - 30th 2012, Hall 5/A21 (with Wafios)
Control in Stuttgart, May 8th - 11th 2012, Hall 3/3223



Roll tooling from Eurolls

Eurolls has been manufacturing roll tooling for markets worldwide for over 20 years. A few years ago, the company established branches in Brazil and Mexico, specifically tailored for the local markets. Although Eurolls Do Mexico and Eurolls Do Brazil specialise in the sales, manufacturing and regrinding services for rolls and cassettes for the wire sector, both companies have noticed a significant increase in volume for tooling for the tube/pipe sector over the last two years.

The company has integrated, within its own facility, the latest generation of furnaces for heat treatment. This considerable investment gives Eurolls an advantage when it comes to quality control. It is extremely careful when calculating every step of the manufacturing process, which starts with selecting the best raw materials, developing the design and manufacturing techniques, and concludes on the production floor, where strict quality controls and certifications are instituted in each phase of the roll manufacturing process.

Fax: +39 0432 796501
Email: info@eurolls.com
Website: www.eurolls.com

Faccin
Italy

5113

FACCIN's four rolls plate bending machine 4HEL series with computerised numerical control model PGS-ULTRA are provided with all the accessories to make the machine

able to combine high accuracy and speed of execution – even with complex shapes. The performances guaranteed by the manufacturer are obtainable for several technical reasons.

Rectilinear guides: the frame is designed in order to have strong guides where the rolls supports slide during movements. It is high technology and the results produce a high quality of pre-bending operations.

MCS system: the multi-bearing system is a guarantee of reliability and precision of the bending roll. Each roll is supported by four independent bearings, which allow the distribution of loads and the alignment of bending axis.

EPS System: the introduction of electronics into the rolls parallelism is the confirmation of the continuous research towards accuracy and repeatability of performances. The rolls movement is controlled by an electronic unit to assure the perfect synchronism of the extremities and the absolute precision of positioning of the roll. >>>

High accuracy and high speed four roll plate bending



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- Dow Jones metal quotations and reports
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- global reach



STAND 11J53



www.expotube.org
+390341580139
staff@expometals.net

With the four rolls bending machines Faccin is proud to introduce software with graphic interface: the PGS-ULTRA is a further advancement of the automation program for bending systems created by Faccin's electronic engineers some years ago.

The goal is always the same: the policy is to make the diagnostics and maintenance easier, fast and therefore less expensive. With the Faccin CNC, even an operator without any experience, just following the instructions on the screen, is able in a short time to bend cylinders, ovals and open shapes with variable radii.

Website: www.faccin.com

Hall Longmore (Pty) Ltd
South Africa **4F04**

HALL Longmore will showcase its range of steel pipe and protective corrosion resistant coatings and linings at Tube 2012. The company will be co-exhibiting with major South African businesses under the auspices of the Steel Tube Export Association of South Africa (STEASA) on

the Department of Trade and Industry of the Republic of South Africa exhibition stand.

Following an on-going upgrade and capacity building programme in recent years, the company has entrenched its position as a manufacturer of large bore welded steel pipe in sub-Saharan Africa. Hall Longmore manufactures in accordance with the American Petroleum Institute (API) standard and its product is recognised internationally for the transportation of water, gas and petrochemicals. In addition, the Hall Longmore range of steel pipe is used in a variety of applications in the construction and mining industries.

The Hall Longmore exhibit will feature its capabilities in the manufacture of electric resistance welded (ERW) pipe to a maximum diameter of 610mm and spiral submerged arc welded (SAW) pipe to a maximum diameter of 2,500mm. A wide selection of high-performance protective corrosion resistant coatings and linings suitable for various applications will be on display.

In addition to the API accreditation API 5L and API 5CT (Q1 programme), a programme of quality assurance in accordance with

the International Standards Organisation (ISO 9001:2008) is established in Hall Longmore's process and management systems.

The company maintains an Occupational Health and Safety Management System (OHSMS) in accordance to the requirements of BS OHSAS 18001:2007 standard and is poised to implement the ISO 14001 environmental management system.

Email: info@hall-longmore.co.za
Website: www.hall-longmore.co.za

Haven Manufacturing Corp
USA **4D10**

HAVEN will introduce the Haventrak[®] flying cut-off tube cutting machine at Tube Düsseldorf.

The HavenTrak flying cut-off is an economical, precision cutting solution for tube manufacturers that combines the Haven Dual-Blade Shear cut-off head and the Universal U-Trak servo length control system. This combination delivers accurate, high quality, dimple free cuts on the fly.

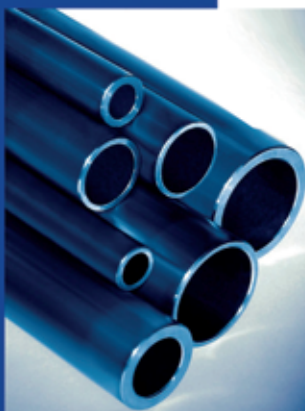
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 Hall 6 Stand 6A40

Mill installations with speeds up to 250fpm are best suited for this new product.

The company states that HavenTrak minimises cost by providing an accurate and distortion free cut that eliminates the need for secondary operations. The system is simple to operate, easy to maintain, and built for longevity. The HavenTrak flying shear tube cutting machine is also claimed to have the highest return on investment of any competitive system.

Haven will also feature video presentations of its entire product line, including HavenTrak flying shear cut-off, Dual-Blade Shear cut-off, Kleencut[®] supported shear cut-off, double end finishing, wire brush de-burring, measuring/inspection, and packaging/stacking equipment.

Fax: +1 912 264 9001

Website: www.havencut.com

HKS-Prozesstechnik GmbH
Germany **6D26**

HKS-Prozesstechnik GmbH is a leading company in the field of welding monitoring

and measuring systems delivering improvements in weld quality.

Welded tubes can pass dimensional inspection, but have incomplete fusion which fractures under stress when put to use. In ERW/HFI welding, a main cause is too low or too high heat input or input material non conformance. Eddy current or ultrasonic systems are limited in the detection of such errors.

Analysing the weld seam and quality via the thermal properties creates new detection possibilities such as penetration faults or the weld seam heat distribution can be recognised during production. Complete tube length data is documented and archived for traceability. The ThermoProfileScanner of HKS-Prozesstechnik GmbH from Germany is proven in the field to deliver results.

Using control limits, these values are freely adjustably and therefore adaptable to the client process, material and mill. The basic parameters like seam position, width, symmetry and temperature form the basis to recognise weld defects such as lack of fusion and cold welds. For weld inspection purposes, the characteristic of the heat-

affected zone (HAZ) depends directly on the weld seam quality. Errors are detected, and tubes lengths are marked and sorted for secondary inspection.

The TPS measures the infrared intensity of radiation of the cross-section of the welded seam during solidification with a frequency of 100 to 400Hz. This allows welding speeds of up to 180m/min. As a result, irregularities can be recognised of dimension less than 1mm in the thermal signature. The sensitivity of the TPS allows it to measure a temperature range from approx. 650°C to about 1,350°C.

Fax: +49 3456830949

Email: info@hks-prozesstechnik.de

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UK **6B43**

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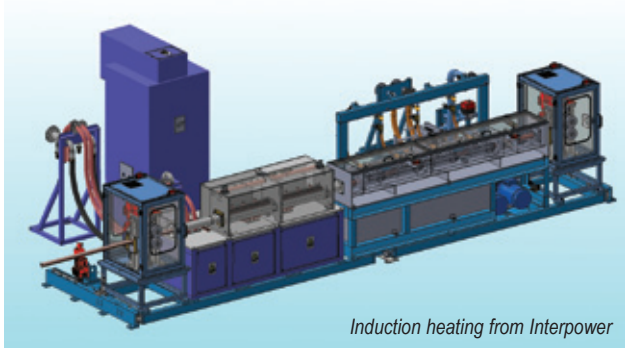


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Interpower Induction Europe can provide full engineering support and coil service by skilled staff with in excess of 30 years experience in induction heating. In addition, Interpower Induction Europe offers induction melting through its sister company Melting Solutions Ltd.

design projects, which include the induction heating and mechanical handling equipment for both wire and tube, PLC control and Scada systems.

It can offer integrated induction equipment to suit existing manufacturing lines as well as design, build and installation of complete processing lines.

The company serves hundreds of customers worldwide in forging, automotive, truck and bus, wind turbine, aerospace, military, railroad, hand tools, mining, marine and farm machinery and off road vehicle manufacturing industries.

Website: www.interpowereurope.com

Interpower's technical staff have in-depth knowledge of induction hardening, tempering and annealing for wire and tube across a wide range of materials including carbon steel, high alloy steels and copper.

Its team is equipped to take on large-scale

Magnetic Analysis Corp
USA 6F19

MAGNETIC Analysis Corp (MAC) will be featuring its newest multiple technology test systems for API tube at Tube 2012. Drawing on more than 80 years of experience in designing and manufacturing non-destructive test instruments and systems, MAC incorporates ultrasonic, eddy current and flux leakage technologies to provide optimum test capabilities.

Combination test systems using more than one type of test technology together are increasingly required to meet stringent test requirements such as API and ASTM standards.

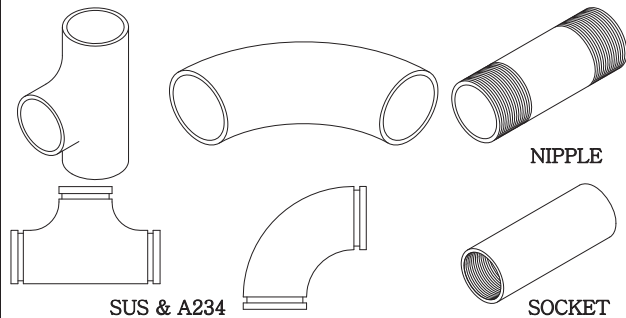
MAC's new multiplex Echomac® ultrasonic testers with up to 32 transducer elements combined with either MultiMac® eddy current or Rotoflux® flux leakage technology can meet these requirements while achieving high throughput rates.

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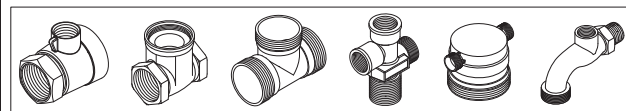
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Maschinenfabrik Liezen und Gießerei

Austria

6E41

MASCHINENFABRIK Liezen und Gießerei (MFL) develops and manufactures sawing and milling machinery for the steel and tube industry. MFL's target is to advance and refine existing systems to satisfy rising quality and capacity demands. The company's product range includes different kinds of machinery for the production of longitudinal welded, spiral and seamless pipes.

To complete the range for the pipe industry, MFL has developed a semi-mobile pipe bevelling machine for the repair and pipe end bevelling of large diameter pipes.

This machine supplements the established product range of stationary pipe bevelling machines. The semi-mobile pipe bevelling machine is characterised by its flexible applicability.

The machine can refine pipes that show quality problems after production. It is placed in position by a crane, and is centrally clamped automatically. By using a jib crane the machine is able to chamfer both pipe ends successively without the need to turn the pipe.

Another advantage of the plant is the flexible diameter adjustment. By an easy exchange of clamping cassettes the diameter can be changed quickly from 16" to 56". The pipe is clamped from inside and by a precise feed the required chamfer (I, Y and X) is bevelled by a copying process to the pipe end. The new development currently works up to 50mm wall thickness, for pipes up to 56" in diameter.

MFL's product range for the pipe industry also includes stationary pipe bevelling machines, carbide tipped cold circular sawing machines, plate and strip edge milling machines and welding seam processing machines.

<<< meeting current API standards. Because MAC can offer all of these technologies, designed and manufactured in its own plants, the systems can be fully integrated, providing operators with a consistent look and feel as well as enabling combined defect reporting and monitoring.

The testers can easily be combined into complete test systems including triple pinch benches to maintain accurate positioning, standard and custom conveyors, markers, sorters, demagnetisers, water circulation systems for ultrasonic test applications, and sophisticated controls, all designed by MAC.

>>>

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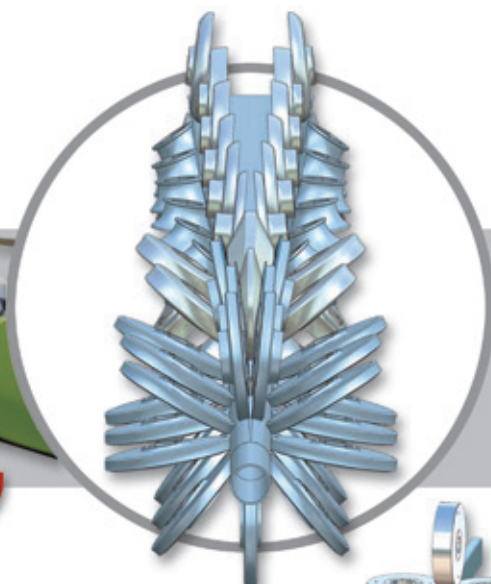
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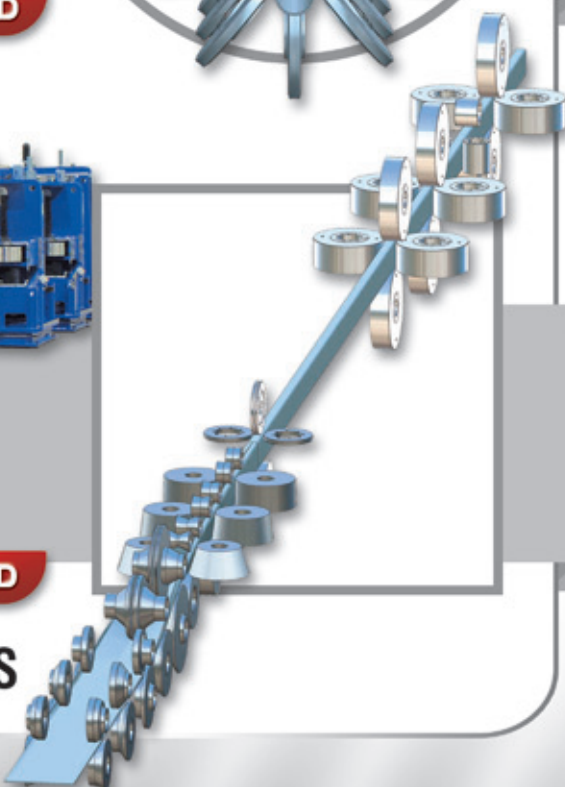
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◀◀◀ The stationary pipe bevelling machine bevels the welding seam preparation (I, Y and X-profile) in a copying process or with integrated NC valve plate to the pipe ends. The machine is designed to process pipes with a wall thickness up to 100mm and an outer diameter from 10" to 120". Special welding seam profiles are possible under consideration of the pipe ovality.

MFL carbide tipped cold circular sawing machines are divided into single cut and layer sawing machines, and are used for the exact cutting of seamless pipes and steel billets.

The company's edge milling machines are designed for the welding seam preparation of all kinds of chamfers on longitudinal and spiral welded pipes. Edge milling machines are used for the edge preparation of strips and plates (large diameter pipes, wind power industry) and divided into table and pull-through edge milling machines.

Welding seam processing machines remove the welding seam scarf of longitudinal welded and spiral pipes, using a milling process at the inner and outer side simultaneously over a length of 400mm within a guaranteed quality range

(base material +0.1mm). The machines are designed for a pipe outer diameter of 10" to 200".

Fax: +43 3612 270 830
Email: saegen.fraesen@mfl.at
Website: www.mfl.at

OCN SpA
Italy

12E17

OCN SpA has been manufacturing equipment for the ferrous and non-ferrous industries since 1977 in the North Eastern part of Italy in Tavagnacco.

Thanks to the wealth of experience and know-how acquired throughout the decades, a highly motivated and specialised team of 60 employees and a workshop of more than 10,000m², OCN has been designing, manufacturing and commissioning state-of-the-art, custom finishing lines that process bars, coils, tubes and pipes of copper, brass, bronze, aluminium and steel.

OCN has developed an in-line straightness control system for bars, pipes

and tubes. The main advantages of this system are:

High processing speed with over 30 pieces/minute regardless of pipe/tube length.

Fully automatic station capable of separating the bent pipes from the straight ones and conveying them back to the straightening machine feeding system. The automation of the system can be connected to the straightening machine control for an immediate alarm and tuning of the rolls set-up.

Fully static system with no moving parts. This drastically reduces the required maintenance and operation costs.

Easy installation in existing lines thanks to the minimal space required for operation.

The OCN stacking system processes bars and pipes to form round, square and hexagon bundles and can serve different types of finishing lines for bars and pipes thanks to the high productivity of the system.

Given layer transfer time is always inferior to that of layer formation, the productivity of this area comfortably adapts to the upstream feeding capacity.

>>>

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It allows customers to perfectly align and pack products in different bundle shapes. Stacks are tightly strapped and are suitable for any means of transportation. Stack hexagonal bars and pipes to form tight rectangular bundles by means of a special stacking system. Automatically process bundles through strapping, wrapping, weighing and collecting.

Email: alessio.leonarduzzi@ocn.it
Website: www.ocn.it

Oscar Production Group
Ukraine **4F18**

OSCAR Production Group is one of the leading manufacturers of high-tech seamless tubular products from titanium alloys, nickel alloys and stainless steel. It was established on the basis of Tube Drawing Workshop No. 4 (TDW-4) which has been successfully working since 1975 at Nikopol Yuzhnotrubny Plant (NYTP), Ukraine.

The enterprise is specialising in the

manufacture of products intended mainly for nuclear-power engineering, aircraft and rocket building, special-purpose machine building, shipbuilding, defence industry and other industries of the national economy.

Oscar Production Group uses hot-pressing and cold-working technology (cold rolling and cold drawing). Its product line includes tubes of stainless steel grades and titanium, nickel based alloys: 0.3-133mm diameter, 0.08-15mm wall thickness seamless tubes; 16.0-76mm diameter multilayer (from 2 to 12 layers) tubes with thickness of individual layers of 0.16-0.25mm; extremely thin-walled and ribbed tubes of titanium alloys in a standard size range.

The company operates a unique 1.4 mln sq feet facility equipped with 60 units of basic rolling equipment: 10 cold pilger mills, 41 tube rolling mills of roller type and 9 drawing mills. The plant has powerful facilities for thermal treatment



High-tech seamless tube production

of tubes in a non-oxidising atmosphere of ultra-pure hydrogen ("bright annealing") and in vacuum. This advantage provides wider possibilities for the manufacture of superhigh-duty tubes of special stainless steel grades and alloys and titanium based alloys for aerospace engineering.

Oscar Production Group has qualified personnel and all necessary technical facilities for control and testing procedures, set out in domestic and foreign standards applied to manufactured products. The company has certified central testing laboratory, a metrology laboratory and a department of non-destructive testing of pipes.

The quality of products is controlled at all stages: starting with the launch of production

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wire Düsseldorf Hall 12 Booth B16

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<<< and until shipping to customer. The special technological processes are controlled and results are documented in accordance with the direct instrumented measurement.

Website: www.oscar-tube.com.ua

Plasmait GmbH
Austria Austrian Pavilion 10A56

PLASMAIT GmbH, a supplier of plasma heat and surface treatment lines for wire, tube and strip production, has opened a dedicated test facility for continuous annealing and cleaning of tubes. Tube manufacturers are welcome to test plasma heat and surface treatment on their materials at Plasmait's facility in Lebring, Austria.

The Plasma Treatment facility has been designed to perform heat treatment, degreasing and deoxidation on a wide range of ferrous and non-ferrous materials with OD range between 0.1 and 10mm. Plasmait has successfully performed trials on copper, copper alloy, stainless steel and nickel alloy tubes.



Plasmait's test facility

According to Plasmait's R&D director, Peter Ziger, the dedicated tube trial facility is now available to all tube manufacturers who strive to improve the quality of their tubular products. Plasma treatment will most benefit applications with demanding surface quality requirements or challenging annealing requirements. Such applications are usually found in sectors such as medical, precision mechanical, electronics, aerospace and energy sectors.

Other tube manufacturers may want to consider plasma annealing to reduce

energy use or purging gas consumption, or to replace chemical surface treatments with dry, chemical-free degreasing, surface cleaning or deoxidation. Manufacturers of coated tubular products may find plasma surface preparation prior to coating or metallic plating an area of potential interest.

Since the introduction of plasma heat and surface treatment process in the wire industry in 2003, Plasmait has continuously improved the process and widened the application scope to include annealing and surface treatment of tubes and flat products. >>>



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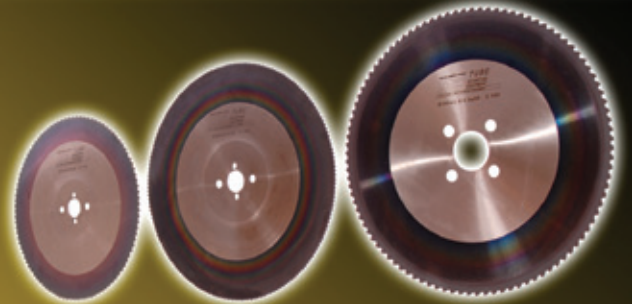
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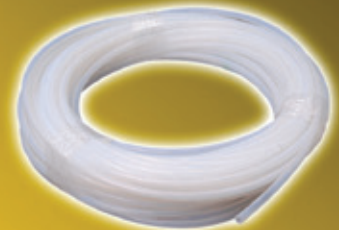
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Prestige Industrial Pipework Equipment (PIPE) Ltd
UK **6H41**

PIPE Ltd has been a worldwide leading manufacturer and supplier of pipework manufacturing equipment for more than 20 years.

Its comprehensive range includes: pipe bevelling machines, pipe cutting machines, pipe welding alignment clamps and pipe jack stands. Now with its extensive knowledge in this field, it has progressed into the manufacture of dedicated purging systems and accessories to enable the high quality welding of exotic materials. Having seen the problems faced by pipe welders when required to weld exotic materials, Pipe Ltd

now manufactures a comprehensive range of weld-purging systems to remove oxygen from the weld chamber as fast as possible, allowing the welder to produce high quality, oxide free welds.

The latest addition to this range is the patented 'rapid purge' system. As its name suggests, the rapid purge is designed for speed. Utilising a unique 'donut' design twin inflatable bladder housed in a special nomex and Kevlar mix heat resistant material, the 'donut' and unique 'thru-bore' design of these systems means that the area to purge

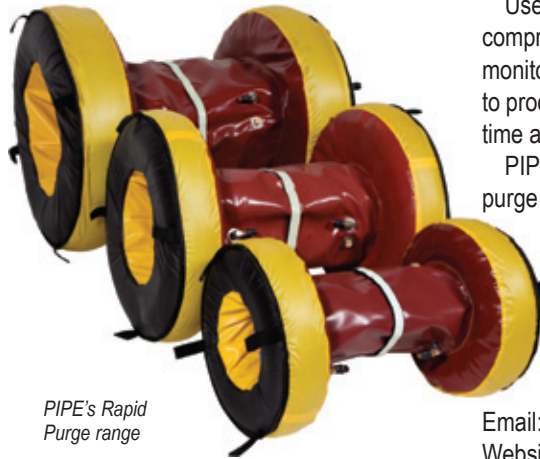
is localised to the weld root reducing both gas usage and purging times dramatically. For example, a 36" pipe will purge down to 0.1% oxygen in less than 10 minutes.

Whether 8" or 80" pipe, due to the materials used, these lightweight yet rugged systems allow easy withdrawal from the pipe once deflated, even round bends and elbows.

For fast, precise welds, with minimal gas usage, rapid purge is the solution for every pipe welder when the weld quality of exotic material is critical.

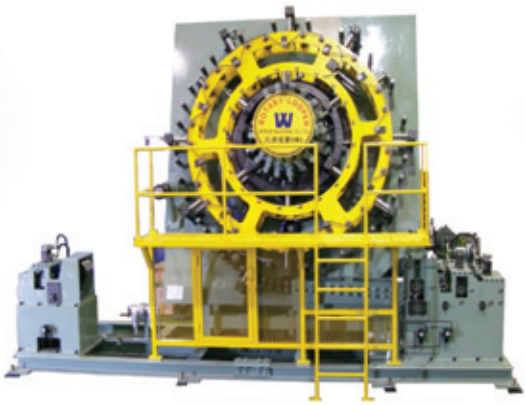
Used in conjunction with PIPE's comprehensive range of weld purge monitors, these systems enable the welder to produce highest quality welds in very little time and with no oxidisation.

PIPE Ltd will be showcasing the rapid purge system, together with its extensive range of pipeworking equipment and tools at Tube Düsseldorf 2012, with live demonstrations and technical staff on hand to discuss any aspect of your requirements.



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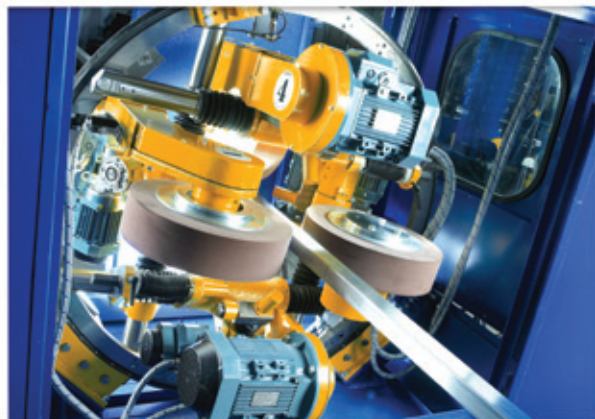


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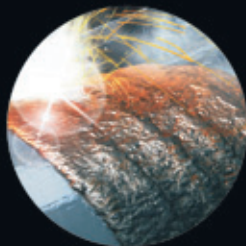


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Provea

France

5E33

PROVEA, France, has participated in the development of a new ultrasonic bench technology in partnership with Socomate International – a leading ultrasonic electronic supplier and well known in the NDT industry for being a pioneer in conventional and phased array systems.

The new bench features quality testing and dimensional measurement (designed for high precision tubes), high-speed performance, and maintenance costs reduced to a strict minimum. This has been achieved thanks to a simple idea: neither the tube nor the sensors are rotating.

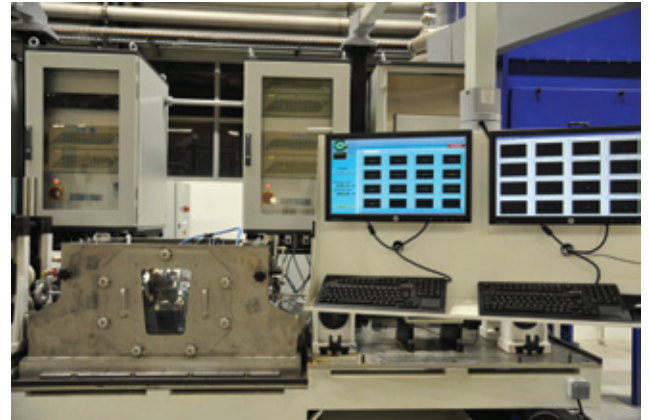
The 2D phased array sensor used with the Socomate FFAST_II system re-simulates the rotation of the conventional sensor used in rotary head systems. Longitudinal and transversal flaws of the tube are detected internally and externally without any rotation (probes are fixed and there is no rotation of the tested tube). This implies no mechanical movement needing close maintenance supervision. Contrary to rotary head

systems, maintenance costs are limited.

Another series of conventional immersion probes in use with Socomate's E-Rota system complete the global system. The dimensional measurement system is also capable of high-speed performance, and measures OD, ID, thickness, ovality and eccentricity with accuracy up to 1µm. Again, no rotation of either probe or tube is necessary.

One of the crucial points of the project has been the mechanical guidance of the tube. The tube position has to be very accurate and stable. This is where Provea's experience in the tube industry played an important role.

Probe settings were also a great mechanical challenge. The fineness of the probe positioning system was maximised, and one probe can be subjected to four different space adjustments, all extremely accurate.



Ultrasonic bench technology

The UT electronic know-how of Socomate International combined with Provea's experience in the tube industry enabled the creation of a high-performance, turnkey ultrasonic bench for tube industry producers (OD 10 to 60mm).

The company will demonstrate the performance of the new UT testing bench at Tube 2012 in Düsseldorf.

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Reika GmbH & Co KG
Germany **6D30**

REIKA is currently experiencing high demand for its compact series machines from value added processors, particularly in the automotive sector. "The compact machine series celebrates great success," commented Hans-Joerg Braun, managing director.



Reika cutting centre

The company has advanced the compact series machines by incorporating ID RingSaw cut-off technology, though machines are still available with traditional disk or rotary head cut-off systems.

The addition of ID RingSaw cut-off technology improves machine performance in heavy wall applications and expands the product range to solid bars and ultra high strength materials.

For example, the compact series machines for short lengths and precision cuts are preferred by companies producing fittings.

"It's mainly low maintenance and low operational costs the customers appreciate," said Mr Braun.

The compact series machines offer long tool life, no surface damage and no sticky saw chips.

"In addition, they guarantee extremely good tolerances."

Modern, high quality components are combined with Reika-standard modules. A central machine bed, integrated end working, a fully encapsulated production cell and the absence of a hydraulic system are other notable features of the range.

Customers will benefit from the rigorous and practical implementation of Reika's experience and know-how as well as 'process safe' control of user needs.

The output of the compact series machines is up to 1,900 pcs/hr depending on material and application.

This performance is achieved by fast machine cycles, low changeover times, high reliability and optimised cutting technologies.

Users will also appreciate improved accuracy and process stability through robust material handling built into every compact series machine.

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S+C Bowers & Jones can assist its customers in questions of design and manufacture of parts, equipment and machines. Further core competences are refurbishment, repairs, upgrades, modifications and inspections of mills.

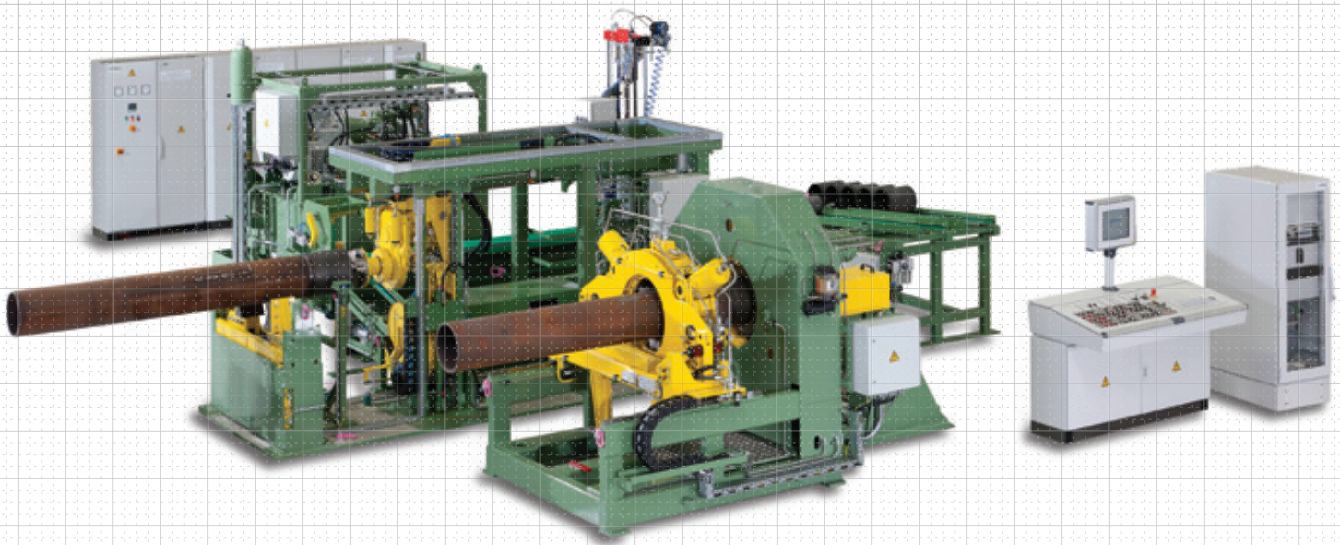
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Rosendahl Maschinen GmbH
Austria **9A60**

ROSENDAHL Metal Tubes & Hoses provides solutions for smooth and corrugated tubes and hoses with diameters from 4 to 200mm, with walls of 0.1 to 4mm, with high demands regarding precision and corrosion resistance.

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At Tube Düsseldorf the company will present new advancements and technology highlights, including the latest developments for the application fields of solar tubes, heating tubes, hygienic and process tubes, automotive industries and turnkey solutions, with a particular focus on solutions for the processing of titanium.

Rosendahl's cable and wire business unit will be presenting its products at the

concurrent wire Düsseldorf event, in Hall 9, Stand A60.

Email: office@rosendahlaustria.com
Website: www.rosendahlaustria.com

S+C Bowers & Jones
UK **5E28**

FOR many years the manufacture of rolls has been an important part of Schmidt+Clemens's (S+C) finish machined products business.

At the beginning of 2010, all of the group's roll manufacturing activities were brought together in one location near Wolverhampton, England, in a newly constructed manufacturing facility for the group's rolls specialist, S+C Bowers & Jones (B&J). B&J was founded in 1954 and the

manufacture of high precision forming rolls commenced in 1956. The company's technical knowledge and attention to quality has enabled it to become a leading manufacturer of rolls for the production of tubes, sections and copper rod.

Since joining the international Schmidt+Clemens Group in 1997, customers have benefited from the combination of S+C's specialist knowledge of materials and B&J's experience of roll design.



Roll manufacturing



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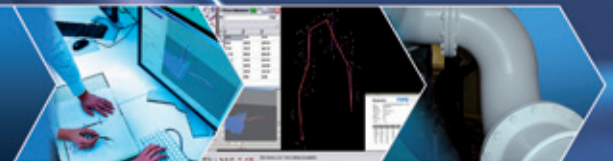
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««« The experienced technical staff, as well as continuous investment, has built S+C Bowers & Jones into a centre of competence for the design, manufacture and worldwide distribution of rolls, for a wide range of sizes and for many applications.

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Schwarze-Robitec GmbH
Germany **5E27**

AS the first supplier on the international market for tube bending machines, Schwarze-Robitec GmbH offers a solution that can bend tubes with diameters from 8 to 40mm both to the right and to the left in one go, and at the same time fully integrates the advantages of a loosely mounted bend former. Reclamping of the work piece is

no longer necessary, so the fully electric CNC 40 rotation tube bending machine avoids having to change bending direction and therefore saves on set-up times when bending complex tube shapes.

As this new solution needs no second bending head, the investment in the CNC 40 Rotation is around 20% lower when compared to conventional solutions, said Schwarze-Robitec.

Aside from the reduction of acquisition costs, the new tube-bending machine works with 13 CNC-axes and is remarkable for its intuitive operator guidance on the control system.

"A single day of initial practice is enough to understand the control concept and operate the machine," explains Schwarze-Robitec managing director Bert Zorn. >>>



The new CNC 40 Rotation tube bending machine stands out for shorter set-up times and an intuitive control concept







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Those coming from Ancona, Florence, and Milan can reach the North entrance directly from the BOLOGNA FIERA motorway toll; those coming from Padua can reach the Michelino entrance by leaving the ring road at exit 8. **Fiera Bologna Exhibition Centre, Michelino and North entrances, 9.00 - 12.00, Wednesday 9th to Saturday 12th May.**

To obtain a free pass for the event:

- pre-register on-line (www.lamiera.net)
- use the QR Code



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Organiser: CEU-CENTRO ESPOSIZIONI UCIMU SPA
in collaboration with: Senaf srl, via Eritrea 21/A, 20157 Milano MI

<<< At Tube 2012 in Düsseldorf, Germany, the machine will be presented for the first time. In addition, Schwarze-Robitec will be showing trade fair visitors the energy-efficient CNC 100 E TB MR tube-bending machine for tubes with diameters from 25 to 114.3mm and the high-performance TPM 1 tube perforating machine, which punches entire rows of holes in tubes with a thickness of up to 2mm. The distinguishing feature: the TPM 1 offers perforating and cutting to length in one go.

The company, which was founded in 1903, is one of the primary international experts in the tube bending machine industry. At the head office in Cologne, the company employs 120 staff. Schwarze-Robitec is represented worldwide through long-standing partners. Over 2,300 machines have been sold to date. Schwarze-Robitec's list of references includes prestigious manufacturers from the areas of automobile manufacture, energy, shipbuilding, aerospace and many other industries.

Website: www.schwarze-robitec.com

Selmers BV

The Netherlands

4F03

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

The company has an experienced team of engineers that provide innovative and reliable custom-made equipment solutions. All design and engineering work is done in-house, providing short communication lines and optimum interfacing for individual equipment parts.

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

Selmers also features an offshore programme aimed at pipe handling/firing line equipment for pipe lay barges, field-joint blasting and coating systems with hot mastic, PU foams, FBE and 3-layer PE, as

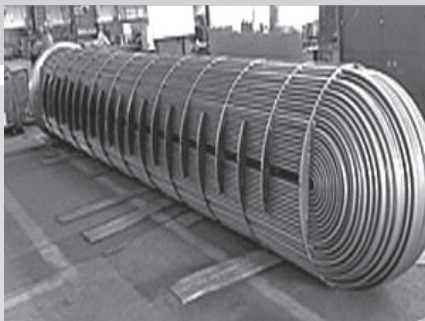
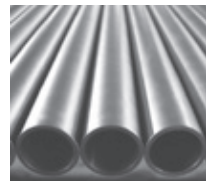
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Capabilities	Minimum	Maximum
Diameter	6.35 mm (1/4 Inch)	1270 mm (50 inch)
Thickness	0.5 mm (0.02 inch)	50.8 mm (2 Inch)
Straight Length	3 meter (9.84 feet)	30 meter (98.4 feet)
U Bend Radius	30 mm (1.18 inch)	1200 mm (47.25 inch)
Capacity	18000 Metric Tons/Year	
Experience	Over 200000 Metric Tons, over 40 Years	

Applications Heat Exchanger Line Pipes Instrumentation Feed Water Heater Condenser Boiler General Process Piping

Industries Nuclear Power Thermal Power LNG Pharmaceuticals Oil & Gas Petrochemicals Fertilizers

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Düsseldorf, Germany
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Hall 05 – Stand 5G32

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well as multi-jointing facilities for pipe spool bases with FI rollers, line-up systems and pipe pushers.

In addition to these programmes Selmers offers concrete weight and cement mortar coating equipment, rebar powder coating lines, in-situ equipment, containerised configurations, quality control equipment, and specials on customer specs, as well as self-propelled coating removal and re-lining machines for in-situ pipeline rehabilitation purposes.

The product range is compliant with all necessary international standards, supported by a highly qualified engineering department (utilising CAD/INVENTOR) and a state-of-the-art quality management system.

Equipment is offered with full project support from first design, engineering, construction and manufacturing up to installation, commissioning and after sales.

Fax: +31 251 220 777
 Email: sales@selmers.nl
 Website: www.selmers.nl

Siempelkamp
 Germany **7aB03**

SIEMPELKAMP will present presses for the complete manufacturing process of large-diameter pipes via C-, U- and O-forming.

As a single-source systems provider, Siempelkamp not only offers machine engineering, but also demonstrates processing technology for all three applications.

Tenaris Confab, a long-standing customer, has ordered an 18MN U-press for the works in Pindamonhangaba, Brazil. It will go online together with the O-press that had been ordered shortly before.

On the press U-cannings for longitudinal seam-welded pipeline pipes with diameters of 12¾" to 48" will be manufactured.

This press will be part of a press line comprising an existing crimping press, the new U-ing and the new 500-MN O-ing press Tenaris already ordered in March 2011. Due to the new press Tenaris will be able to produce thicker-walled pipes of higher steel grades.

A particular feature of the Tenaris U-press is its high-energy efficiency. Pumps are provided with servo- and speed-controlled drives.

The advantage of this system compared to conventional solutions is that only as much energy as actually required is applied at any time.

The order also covers an innovative press control, drive systems that are arranged directly at the press, and automated tool change and automatic clamping system for tool segments.

Also included in the scope of supply is the C-U-O application software developed by Siempelkamp, by means of which the complete forming process can be simulated and the optimum setting parameters can be determined.

The Siempelkamp Group consists of three business units: machinery and plants; foundry; and nuclear technology.

Fax: +49 2151 92 5683
 Email: inga.bambitsch@siempelkamp.com
 Website: www.siempelkamp.com

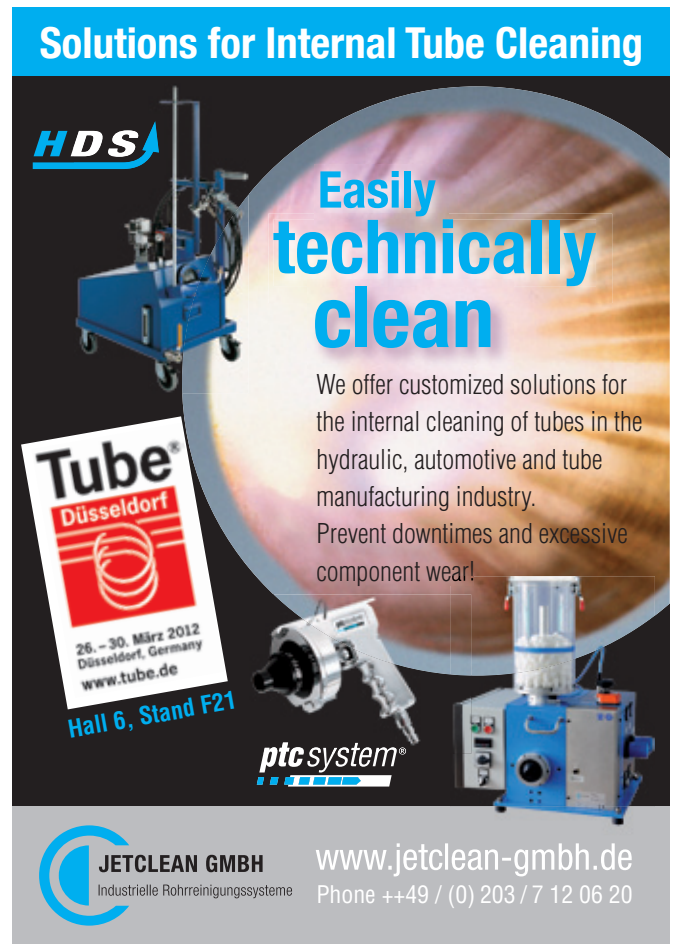


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Grades / Standards	<ul style="list-style-type: none"> Grades: 201, 202, 301, 304, 304L, 310, 316, 316L, 316Ti, 317L, 321, 409L, 410S, 430, 904L Standards: ASTM, AISI, DIN and Any other International Standards
Pipe Fittings	<ul style="list-style-type: none"> Size: 1/2 to 8" Material: Carbon Steel & Stainless Steel

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Mo.:Cherry Guo +86-15210137713 Email: cherryguo320@163.com

Sikora AG

Germany

9A41

SIKORA AG, manufacturer and worldwide vendor of measuring and control technology for the wire, cable and hose and tube industry, will display the latest technology at wire/Tube 2012 in Düsseldorf.

Sikora is showcasing the X-Ray 6000 series for the measurement of the inner and outer diameter, wall thickness, eccentricity and ovality at hose and tube extrusion lines.

The X-Ray 6000 includes XLL-X-ray tubes (eXtra-Long-Life tubes) and provides a selectable measuring rate of 1 to 3 Hz or optional 10 or 100 Hz.

Sikora shows the innovative diameter gauges of the Laser Series 6000 including a number of technological highlights, one being a measuring rate of 2.5 kHz for highest accuracy.

In addition, the gauge heads are equipped with an integrated LED display with control panel option, which allows the operator to read the diameter value directly from the device.



The Laser Series 6000 with an integrated LED display

Other highlights on the Sikora stand include the Length 6000 for non-contact online measurement of produced hose or tube lengths. There are additional new product solutions in the pipeline, which Sikora will present at the show.

Full information on the new technologies will be available on the Sikora website and on the Sikora stand.

Fax: +49 42148 90090

Email: sales@sikora.net

Website: www.sikora.net

SMS Meer GmbH

Germany

7aB15/16

SMS Meer will be presenting its new sustainability concept at its stand at this year's Tube and wire: in future, particular focus will be placed on product innovations, known as "ecoplants", which bring both ecological and economic factors into harmony with each other.

SMS Meer ecoplants enable customers to save energy, reduce emissions and thus act



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Roll Pointing Machines are used to produce drawing points on round, square, flat and similar profiles.

The DWU machines can also be fitted with a pair of vertical rollers and with a straightening device. The machines can be equipped with a shear for wire and with a special shear for flat material.

The combined machines are provided with a welding unit and grinder. Execution and calibration of rollers can be designed in accordance with the customer's requirements.



wire Düsseldorf
Hall 12
Booth B16

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SMS is promoting an eco-friendly outlook at the show this year

concept generates real added value for our customers – in economic terms too.”

Key benefits of ecoplants are the savings they produce on valuable resources, such as raw materials, energy and operating materials, as well as the reduction in emissions and the significant improvement in the recycling rate. Various reference plants on show at the trade fair are testament to the fact that responsible action and sustainable growth work well together.

<<< in a responsible manner. At the same time, they offer good opportunities for generating more sales and profit.

“Sustainability has become a key factor in our customers’ growth. The market demands environmentally and economically sound solutions, which go hand in hand. This we can achieve with our ecoplants,” explains Dr Joachim Schönbeck, President of SMS Meer. “Modern plants need to meet more stringent requirements with regard to environmental protection and use of resources. Our ecoplants sustainability

As well as introducing its ecoplants solutions, SMS Meer will be using the trade fair to present its extended range of products and services.

In addition to SMS Meer, PWS, which specialises in spiral pipe plants, and Elotherm (heat treatment), SMS Concast will also be presenting its products and services at the Tube and wire stand. SMS Concast supplies plants for steel production, metallurgical treatment and continuous casting. With this the SMS Meer business area is able to offer its customers holistic solutions and services from a single source, for example minimills for producing wire rod and sections. The same principle applies to the SMS Meer companies as does to the long-term partnerships fostered by SMS Meer and its customers: quality unites.

Email: info@sms-meer.com
Website: www.sms-meer.com

Sofratest

France

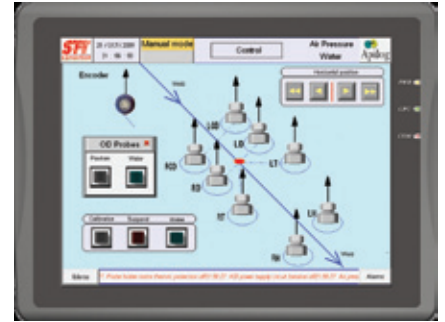
6F49

SOFRATEST specialises in manufacturing non-destructive testing equipment for longitudinal or spiral welded pipes.

The company has pioneered developments in computer-based solutions for



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non-destructive testing: ultrasound and electromagnetic techniques.

The main standard products are automatic ultrasonic and eddy current systems for weld and parent material inspection for ERW and SAW processes; and multi-channel control (up to 32) for high-speed inspection of plate before forming.

Sofratest offers innovation and application of advanced technology in turnkey systems for automated inspection, with full traceability according to standards API, Aramco, Shell, BS534 and DIN 17172.

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Email: sales@sofratest.com
Website: www.sofratest.com

Stalutube Oy

Finland

3B28

THE installation of tube laser, bending machine, saw line and welding robot at Stalutube’s new facility has created capacity to supply customers in new ways.

The company serves end-users in various industries in cooperation with its distributors and stockholders, which allows it to supply expertise and individual service from the beginning of a project through to the end. Instead of 6m-long standard tubes, customers can order ready-to-assemble components. The tubes can be delivered cut-to-length, bent, welded or with perforations in set areas. This reduces the amount of scrap and creates less on-site costs. The company can handle all kinds of material, including austenitic, ferritic or Duplex stainless steels.

Another aspect of value-adding service is the development and production of special grades, such as special Duplex grades or materials like 904L. The special grades can offer customers fit-for-purpose materials. The know-how of working with special grades is gained by the company’s

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own R&D department and cooperation with suppliers and universities.

Stalutube predicts increasing demand for special grades, and sees a huge potential especially for Lean Duplex grades. The greatest advantages are the higher yield strength combined with good corrosion resistance and higher price stability. As Lean Duplex grades contain less nickel, this grade is less dependent on the volatile nickel price.

The special grades can be used for a wide range of applications. Stalutube's customers mainly use them for projects in the oil and gas industry but also for construction, waste water treatment and desalination plants.

Stalutube's product diameters range from 20 x 20mm to 300 x 300mm, and 30 x 20mm to 400 x 200mm, and wall thickness varies from 1.2 to 12mm. The company has an international distribution network covering all continents and 45 countries. The head office is in Lahti, Finland, and sales offices are located in the United States, the Netherlands and India.

Email: sales@stalutube.com
Website: www.stalutube.com

**Thermatool
(Inductotherm Group) 6C39
& 6C40**
USA/UK

VISITORS to the Inductotherm Group stand will have the chance to operate one of the very latest Thermatool HCT solid-state HF welders equipped with HAZControl Technology™. Designed to provide greater control of the welding process with selectable weld frequency in 1kHz increments, HAZ (heat affected zone) control ensures "superior cost-effective product" – run after run.

The new Thermatool Smart Annealing control console will be on display for the first time in Europe. Smart Annealing systems provide producers of API grade pipe with greater, repeatable control over both the temperature and the positioning of multiple heat stations during the seam annealing process. Spiral seam annealing systems are also available for API grade SAW pipe. For visitors interested in precision, high-speed cutting of tube, Thermatool's Alpha-

cut series flying shears can now be taken to the next level with new operator controls and new accelerators. A range of new cold saws and friction saws are also now available for the European market.

A new design of Radyne clam shell induction coil will be on display, ideal for precision induction heating (prior to coating) of API grade pipe sections during offshore field-jointing operations. Onshore producers of API grade oil and gas pipe and water pipe will have an opportunity to discuss the very latest in Radyne induction pre-heating systems, prior to continuous pipe coating.

The most exciting display on the stand features a Precision Quench Ring™ in continuous operation.

Visitors will be able to see at close range Thermatool's environmentally friendly, high velocity, impinging quench spray utilised in quench & temper systems for bar, pipe and tube heat treatment.

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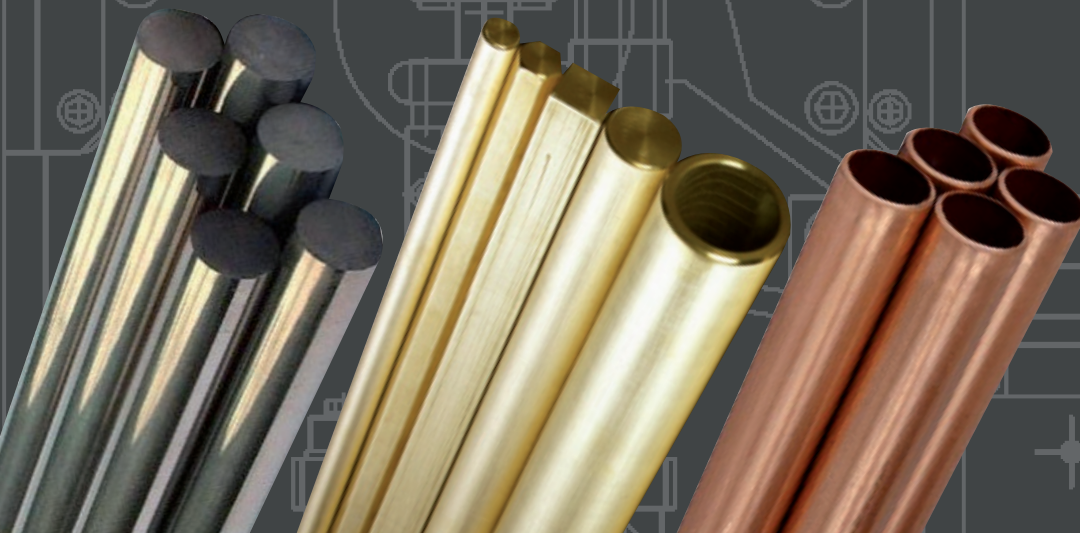
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Tracto-Technik GmbH
Germany **5E21**

GERMAN mechanical engineering company Tracto-Technik (TT) develops and manufactures machines for trenchless pipeline installation and renewal as well as machines, measuring techniques and software solutions for tube fabrication.

TT's tube fabrication division started at the end of the 1960s. At that time Tracto-Technik manufactured hydraulic piling frames for hammering down steel sheet piles, among others. Because he couldn't find any machine on the market to work all the hydraulic tubes, company founder Paul Schmidt quickly invented such a machine. The device was named Tubomat, and integrated all functions necessary for hydraulic tubing in just one flexible and mobile unit: sawing, internal and external de-burring, bending, flaring, assembling of cutting-rings and chamfering of tubes from 6 to 42mm outside diameter.

In 1994 Prof Hermann Simon certified Tracto-Technik's high innovation power in his book *Hidden Champions*. Today, more than 350 patents and numerous awards indicate this guiding principle.

TT is proud of developing and manufacturing machines, and not only being an assembling company. Parts and tools are produced using state-of-the-art, high precision CNC machines for milling, boring, turning and grinding, and all wear parts undergo an elaborate heat treatment or coating process.

Changing from machine provider to system supplier was a key step for Tracto-Technik. The company's tube fabrication product range includes all-electric and electro-hydraulic CNC tube bending machines, semi-automatic tube benders,



Tubomat 642 solution for all steps of processing hydraulic tubes from 6 to 42mm OD

tube end formers, assembly machines for hydraulic tubing and tube measuring systems as well as software solutions for workflow management of tube and pipe shops.

Various companies worldwide – from small metalworking shops to the global players of automotive industry, ship building industry or plant engineering – secure their success using Tracto-Technik products. The latest developments are the Tubotron Vario 40 RL tube bending machine and the Tuboscan S optical tube measuring system.

The Tubotron Vario 40 RL is an all-round bending machine with Vario equipment. The all-electric, multi-stack CNC tube bending machine is able to perform right- and left-hand bending; it integrates rotary-draw bending and freeform bending and is suited to the bending of complex tube and pipe shapes in series production. The main applications are in the field of aerospace technology, automotive industry or furniture industry.

With Tuboscan S the company has extended its range of tube measuring systems. This innovative optical measuring device is able to precisely determine the geometric tube data within a matter of seconds. The tube under measurement is applied to a light-transmissive surface and

>>>

Tracto-Technik develops and manufactures tube-related machines, measuring techniques and software solutions



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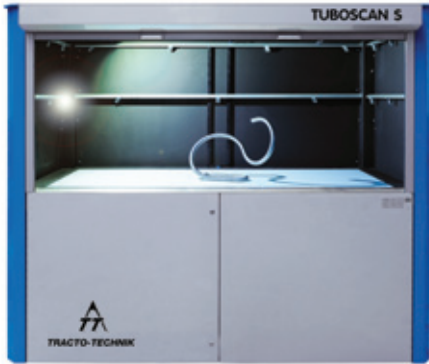
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March 26th - 30th, Hall 5 Stand A12

www.3r-solutions.com



Tubotron Vario 40 RL all-electric right- and left-hand CNC tube bending machine for complex tube shapes



The Tuboscan S200 optical measuring system can determine tube geometries in seconds

illuminated by several LEDs. The shadow images following from this are taken by a high-resolution CCD camera and evaluated by the well-known TeZetCAD tube software. In this way the complete 3D model of the tube is generated in a short time. The measuring system is well suited to quality assurance, as well as for correction of tube bending data. It is available with different measuring ranges, and customer-specific requirements can be considered for the layout.

Fax: +49 2725 9540 33
Email: tubomat@tracto-technik.de
Website:
<http://pipebending.tracto-technik.com>

Trubostal Ltd

Ukraine

4E17

RESEARCH & Production Corporation Trubostal Ltd was created in 1989, and currently numbers more than 1,000 employees and two factories. Total working area is 46,000m². The company's plant for production of centrifugally cast tubes and items is described as the largest in Europe in regard to that type of product.

Production capacity of liquid metal is greater than 20,000 tons per year: seamless centrifugally cast tubes of OD range from 100 to 1,625mm, wall thickness from 7 to 250mm, length up to 6,250mm, in more than 200 grades of steel, alloys, cast iron, bi-metallic combinations, as machined, heat-treated, as well as articles of the centrifugally cast tubes (furnace rollers, bandages for crushers, metal moulds for centrifugal casting, radiant tubes, muffles, casings of hydraulic cylinders, valves, motors, crane rope drums, rings, slitters, press-moulds, flanges, pillars of manipulators, wear-resistant tubes of pulp-ducts, bushings for slush pumps, construction columns, piles, etc).

Metal-removal machine tools, facilities for heat treatment and NDT allow the company to produce centrifugally cast tubes and articles at the level of worldwide standards. About 60% of products are exported. The quality management system has been certified in compliance with EN ISO 9001:2008.

The company's plant can produce fittings of the diameter range 24 to 1,420mm: elbows, bends, tees, pipe crosses and reducers of carbon- and alloyed steels. Some of these products are supplied to thermal power stations and atomic power stations. Thanks to the possibility of independent manufacture of moulding tools,

new standard sizes of fitting are constantly mastered.

Fax: +380 5662 21190
Email: trubostal@trubostal.com.ua
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TSE GmbH Tube Scarfing Equipment

Germany

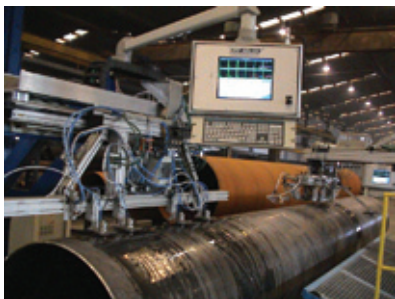
6A14

TSE GmbH Tube Scarfing Equipment is an international operating company offering high quality solutions for tube inside and outside weld bead scarfing (de-burring) of longitudinally welded steel tubes, strip conditioning, bead chopper applications, welding equipment, sawing technology, filtering technology and turning/milling/drilling processes.

The company's product range includes tube inside weld bead scarfing tools/systems, carbide cutting rings for tube inside weld bead scarfing, carbide inserts and holders for tube outside weld bead scarfing, bead choppers, strip shaving units, welding impellers, ferrite cores, epoxy fibreglass tubes, silicone fibreglass tubes, mica silicon tubes, induction coils, flexible PTFE tubes, HSS/HSSE/TCT saw blades, filter systems, filter fabrics, carbide inserts and holders for turning/milling/drilling. The company works with a network of representatives worldwide to offer the best service.

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Website: www.tube-scarfing.com

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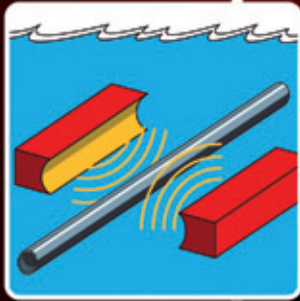
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Representatives welcome

Tube 2012
Booth 6F49

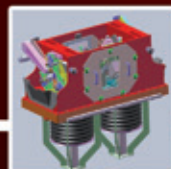
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Provéa France



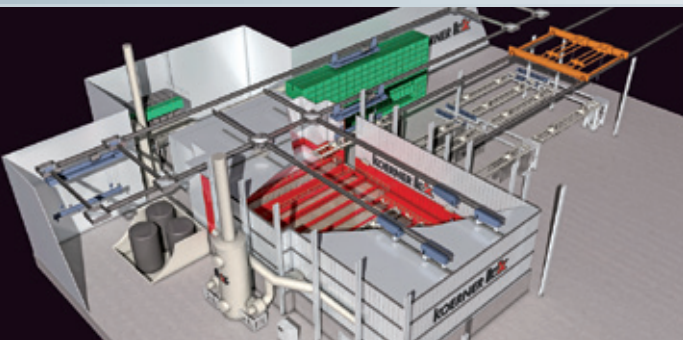
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Tube & Pipe Technology Magazine

UK

4F11

TUBE & Pipe Technology magazine is the international trade magazine for the tube and pipe industries, published six times a year in the English language. It is also translated online into Chinese language.

The magazine covers the production, processing and utilisation of tube and pipe. Each issue of the magazine provides coverage of essential industry news, personnel changes, and technology and product updates. The magazine includes a variety of technical features and in-depth articles highlighting the very latest scientific information and manufacturing solutions in the tube and pipe industry.

For 25 years TPT has enjoyed a loyal worldwide readership of managers, buyers, technologists, engineers and specifiers in more than 100 countries. Working in partnership with the International Tube Association (ITA), *Tube & Pipe Technology* is also sent out to ITA members free of charge as part of their annual membership deal.

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

their adverts if they wish to. Visitors to Tube Düsseldorf 2012 can pick up a free copy of the latest issue on arrival in the Main North Entrance Hall, or at the *Tube & Pipe Technology* stand, together with information on subscriptions, advertising and the new e-zine.

Email: tpt@intras.co.uk

Website: www.read-tpt.com

Upcast Oy

Finland

6A02

UPCAST Oy and ASMAG GmbH have agreed on close cooperation in the field of copper tube production technology. The two companies jointly promote a new 'Cast&Draw' process, which delivers semi-finished copper tubes and consists of three distinct stages: upward continuous casting of thin-walled tube; breakdown drawing of cast tube; and intermediate annealing of drawn tube.

Upcast Oy covers the 'cast' portion with its Upcast®-SGTube technology, while ASMAG GmbH provides equipment for the 'draw' portion, consisting of straight drawing and annealing.

By combining their respective know-how and expertise the two companies promise to deliver savings both in overall investment and in lifetime costs for the copper tube industry.

Tube Düsseldorf 2012 will serve as the official inaugural event for the 'Cast&Draw'

concept. The exhibition also marks the beginning of trade fair collaboration between the two companies by way of sharing a stand.

Fax: +358 207 577 401

Email: sales@upcast.com

Website: www.upcast.com

voestalpine Tubulars

Austria

3C12

VOESTALPINE Tubulars, an Austrian manufacturer of seamless pipes up to an outside diameter of 177.8mm (7"), has commenced production and sales of VAroughneck, its new proprietary thread connection.

VAroughneck is designed for deviated wells, completion of extended-reach wells and drilling with casing.

All prerequisite testing was completed successfully prior to the launch, and multiple strings are already installed in various markets.

VAroughneck is a joint development between voestalpine Tubulars and RAG, an E&P company, developed especially for a well application where rotation of the casing was required.

The connection offers higher torque transfer than API connections, compatibility with API buttress, suitability for tough field applications and allows rotation of the casing string during installation. Rotating while cementing improves the quality of

>>>



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the cement bond, and thread efficiency is ensured.

voestalpine Tubulars is now able to offer three main proprietary thread connections: as well as VAroughneck, the company offers VAGT[®] (voestalpine gas tight) and VAsuperior[®] (a gas tight connection designed to meet the requirements related to ISO 13679, CAL IV).

In addition to its products for the oil and gas industry, such as casing and tubing with proprietary connections, special grades and

line pipe, voestalpine Tubulars offers boiler and heat exchanger tubes, mechanical tubes, automotive tubes and ToughTubes[®] – thermo-mechanically rolled seamless steel tubes. ToughTubes offer improved weldability, high strength and toughness, good cold forming properties, improved surface quality and fine grain size.

Fax: +43 50304 63 531

Email: sales@vatubulars.com

Website: www.vatubulars.com

Zumbach Electronic AG
5H09
Switzerland

ZUMBACH will present many new developments and products, including the Steelmaster, Profilemaster and Ecogauge ranges.

Steelmaster SMR Gauges are new rotating gauges for high-speed dimension measurement in hot rolling mills. These gauges feature a new system for fully contactless power and signal transmission from the laser heads. They offer advantages over other gauges when it comes to fast and accurate capture of dimensions in longitudinal and radial direction. The maintenance for SMR gauges is close-to-zero, and the mechanical concept is extremely simple and robust: no wear parts, no collector rings and no brakes.



SMR rotating measuring unit with fully contactless transmission of power and signals

In addition to the existing line of profile gauges for cold steel and metal profiles, Zumbach will exhibit the Profilemaster[®] in-line profile gauge for hot rolling mills. The gauge is based on triangulation by camera vision, often also called the 'light cut' principle. The Profilemaster delivers accurate and stable readings (which is not 'natural' by this principle, used in many gauges). High reliability is ensured by a sophisticated, multi-stage protection and purging/cooling system. Another key advantage is trouble-free maintenance, with quick and easy access to the maintenance points.

Also on show will be one of the new, upgraded Ecogauge systems of single axis gauges for hot and cold processes. With new models Ecogauge 160 and 550, the range of applications has been extended to a diameter of 500mm (20").

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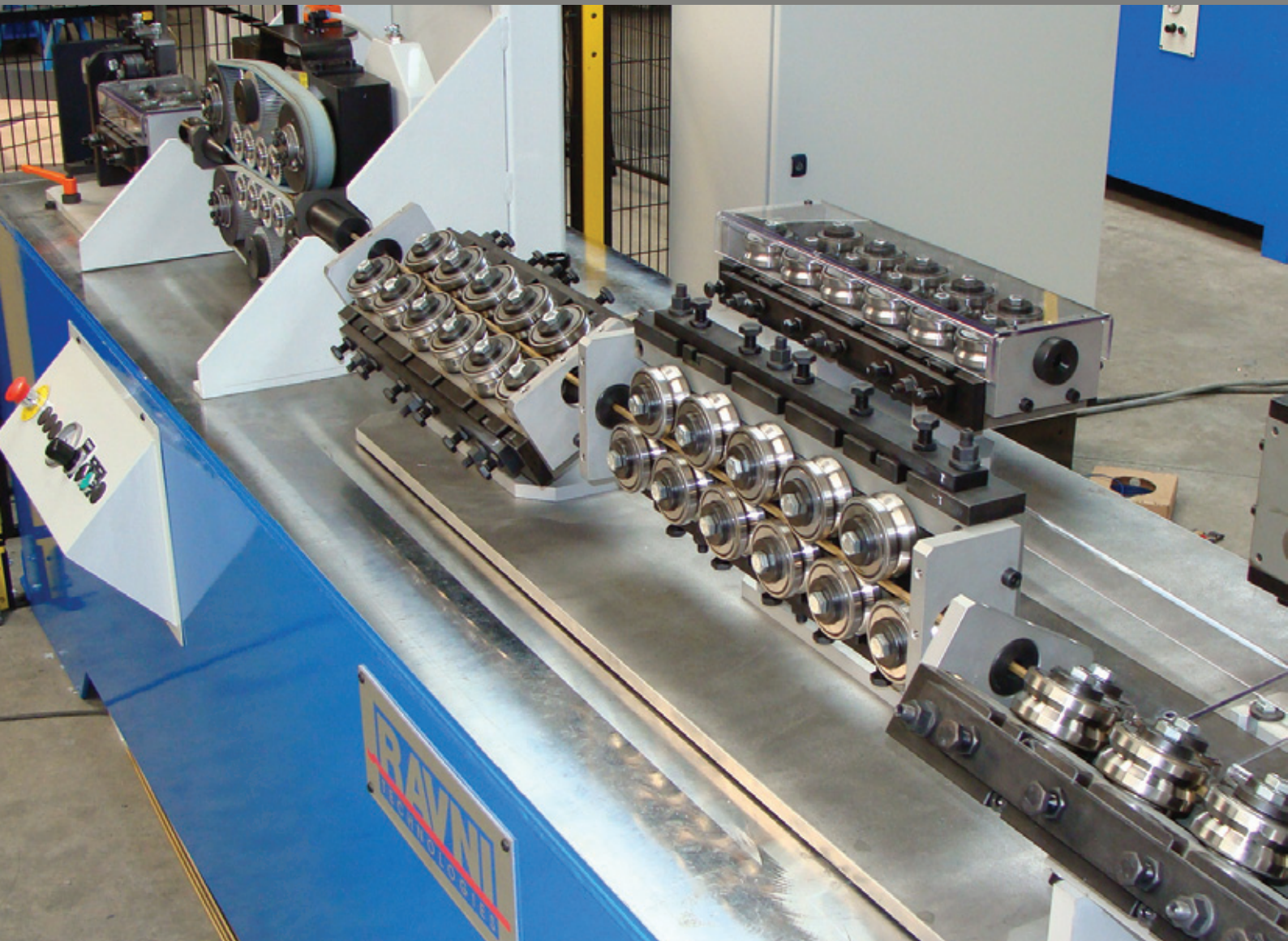
Another feature of our machines is the "follow-on" jaw closing system, which mechanically ensures all 4 jaws move at the same time and permits achieving any square end size with just one type of jaw.

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Straightening technology & equipment



Ravni Technologies: Straightening of steel, copper or coated tubes from 2mm to 45mm (see page 208)

What is the most impressive technique in modern tube making? The question is unlikely ever to be asked. Any attempt to establish primacy among the superb technologies on display in a state-of-the-art tube mill would be an exercise in futility.

But a champion of straightening would have a strong case.

Only a perfectly straight tube can be reliably bent, with all that that means for profiles, angles, fork tubes, bar channels, and a host of other intricate shapes.

The suppliers reviewed here may not issue any challenges. But they will be aware that straightness – trueness – always comes first.

API pipe straightening machines

FIVES Bronx, the provider of Bronx Taylor-Wilson and Abbey International equipment, designs custom machinery for every size and grade. The Fives Bronx series of straighteners are flexible, processing a full range of API grades of pipe as well as the speciality alloy tube market. The six roll straighteners can be found in leading seamless and ERW pipe mills around the world.

The Fives Bronx heavy-duty pipe straightener design can straighten API and GOST quality pipes in arduous mill conditions. The current straightener backlog for Fives Bronx includes orders from a major US steel producer in Ohio, USA: 6CR9 HD will be processing API casing, tubing, upset, line pipe and mechanical pipes in the 2³/₈" to 7⁵/₈" OD range at yield strengths above 140,000 psi, from 750°F to 1,550°F. For Arcelor Mittal, Jubail, Saudi Arabia, a three series 6CR11 machine will process a maximum diameter range of 114.3 to 406.4mm at yield strengths above 965 MPa.

The company has also received a contract for a series 6CR9 machine for Baotou Steel International, processing casing and line pipe, heat treatment workshop straightening high yield API pipe at diameters up to 168.3mm with wall thickness of 25mm. The machine will be an in-line operation at temperatures above 650°C. In the USA, Bronx has designed a complete finishing solution for a

world leader in steel pipe production located in Youngstown, Ohio. The line incorporates three Bronx Series 6CR9 straighteners, 140 MPA pipe tester and a pair of high-speed end-facing and bevelling machines.

The product mixes for these facilities were driven by the fact that deeper wells require pipe with heavier wall thicknesses and higher yield strengths than previously seen. To allow the machine to process this wide range of diameters, upsets, wall thicknesses, and yield strengths, the Fives Bronx machine had to have the highest design load.

The 6CR model of API straightening machine consists of six concave rolls mounted in three pairs, vertically disposed and supported by base and crown sections held together by substantial steel columns. The top and bottom rolls can be driven by individual gear motors or large gearbox and universal drive shafts, which allows for angular and vertical adjustment of each roll.

The individual drive solution allows for the possible changing of one work roll at a time and with the ability to speed match the remaining five instead of changing a full set of rolls all of the same diameter. The rolls are quickly and easily adjusted angularly to give line contact between the tube/pipe and roll over the maximum effective length of the roll profile. This gives support to the tube/pipe over its length as long as possible

and enables even very thin wall tubes to be straightened without being damaged.

In order to process upset-end pipe, the 6CR machines are designed with the ability to open each straightening pass automatically to allow the larger diameter upset end to pass through the machine unrestricted. The machines are also designed to automatically close immediately onto the pipe body after the upset end passes, allowing the machine to straighten the full length of the pipe body.

Other design features include incorporating all of the upset movements into the top passes of the machine, eliminating the need for maintenance access to hydraulic cylinders in the base of the machine, an area typically flooded with scale and water. A quick opening hydraulic relief circuit has been incorporated as a safety measure to protect the rolls and bearings.

Fives Bronx, Inc – USA

Fax: +1 330 244 1961

Website: www.fivesgroup.com

Short tube machine

CISFUN Technology Corp, Taiwan, has announced a new fully automatic high-speed short tube straightening machine with loading and unloading system that can straighten tubes with an OD between 20mm and 70mm. It is based on a stable and compact design rotary pressure and intersection rollers principle of straightening, which gives a high degree of straightness ranging 0.1mm in 500mm and the thickness tolerance is within 0.1mm.

The suitable length is for 150-500mm, operation is automatic PLC control/roll setting (optional); range: 0.5mm-25mm thick; straightening speeds single/double/variable upto 12sec/pc; rolls do not need to be changed and it is easily adjustable to give perfect contact between the tube and the roll, over the maximum effective roll profile. It also incorporates simple setting of the machine for different sizes of tubes and users just need to loosen one hex nut. All rolls are driven by two identical electric motors and hydraulic motor.

Machines are available in single speed/dual speed/variable speed options. Rolls are made from SKD 11 alloy steel, hardened, hyperbolic profile ground and lapped.

CisFun Technology Corp – Taiwan

Website: www.likest.com



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Increasing demand for straightening machines

ASMAG, Austria, a supplier to the steel and non-ferrous metal industry, secured several orders for its new RRM-pro series cross roll straightening machines in 2011 in Europe alone.

All of the ten roller type machines, in the diameter range between 4 and 180mm, will be supplied to well-known steel tube production facilities. They will form part of fully automated finishing lines in the area of drawn precision tubes, mainly for automotive applications, welded tubes, hot rolled tubes and heat-exchanger tubes. The largest machine will process heavy walled, high grade OCTG seamless tubes up to a diameter of 180mm.

The main feature of the ASMAG RRM-pro machines is the identical design of all ten rollers. Each roller is driven by an AC servomotor, and can be adjusted automatically in height and in angle. Even

on the smallest machine (4 to 15mm) these automatic adjustments are realised.

Together with the ASMAG in- and outlet troughs, the 1st and 5th pair of rollers can be fully integrated in the tube bending/ovalisation process. As a result the straightness itself and the consistency of straightness are improved by the additional number of plastic cyclic deflections.

To achieve the best accuracy in straightness the individual drive system is developed to reduce the roller centre distance to an absolute minimum. The individual high-efficiency AC servomotors enable roll wear compensation and high dynamic process control.

For user-friendly operation, after entering the main data of the tube to be straightened, ASMAG's AMAVIS machine visualisation system includes a feature for setting the roller position automatically.

Together with benefits such as collection and storage of straightening data, the AMAVIS system enables machine set-up times to be reduced to a minimum.

The range of robust, high precision tube straightening machines is available as a six or ten roller type, suitable for tube diameters up to 250mm. Special designs of inlet and outlet systems are available, such as systems incorporating vibration absorption and lifting/lowering outlet mechanisms.

ASMAG manufactures its range of machinery in-house, in its own workshop in Austria. Engineering, automation, production and assembly are all under one roof, resulting in a high quality standard, and a high level of flexibility.

ASMAG GmbH – Austria
Email: sales@asmag.at
Website: www.asmag.at

SHANGHAI YUEYUECHAO STEEL TUBE

Established in 1994, Shanghai Yueyuechao Steel Pipe Group mainly deal with seamless steel pipe, seamless square/rectangle steel pipe, large OD LSAW manufacture. The specification for LSAW of Shanghai Yueyuechao Manufacture Tube Co., Ltd is $\Phi 356\sim 1422 \times 8\sim 60\text{mm}$. The specification of cold drawn seamless steel tube for Jiangyin Yueyuechao Manufacture Tube Co., Ltd, ranges from $\Phi 6\sim 426 \times 1\sim 20\text{mm}$, hot expanded tube specification ranges from $\Phi 168\sim 630 \times 4\sim 50\text{mm}$. Quality standards are API/ASTM/GB/ISO/DNV/JIS.



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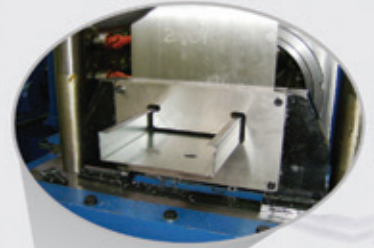
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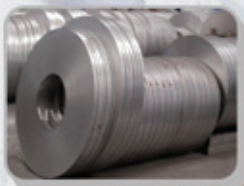


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Several orders for Cartacci

CARTACCI Ltd has acquired a series of orders for lines completed with straightening machines, drawing benches, and cutting and packaging equipment. The consolidated experience of Cartacci allows it to make improvements to increasingly sophisticated equipment, to ensure that results are reached in a very tight period of installation.

Among the new ten-roll straightening machines in production, Cartacci is building a straightener destined for the Brazilian market: despite having to work on pipes up to a maximum diameter of 215mm, it has been designed with a new general geometry, with particularly low wheelbase and with large roll surface. This provides advantages in terms of quality of straightening, particularly on the pipe ends. The surveying system of vertical and angular positions has been replaced with a new device that is more reliable and accurate.

Such improvements are also reflected in a second straightening machine, destined for the American market, for OCTG tubes up to a maximum diameter of 178mm. Cartacci has already created various versions of this type of straightener.

Cartacci has wide knowledge in the construction of straightening machines designed to meet all API standards, from 5D (for drill pipes) to 5CT (for tubing and casing) and 5L (for line pipes). In particular, for API 5CT pipes the company has realised a straightener able to work materials with 13% chrome (L80) and 28% chrome (P110), with versions for cold pipes, for hot pipes (up to 800°C), for plain end pipes, upset or integral joint.

The combined action of bending and crushing, exercised separately, allows the straightener to achieve results in terms of straightness (0.2mm/m) and ovality (± 0.05 mm). Each machine is completely

computer-based, both in set-up research and in the respective positioning.

As a further response to the needs of its customers, Cartacci has built three new straightening machines for bars: one for aluminium bars up to a maximum diameter of 28mm, and two for high alloy steel bars for oil facilities up to a maximum diameter of 35mm. Both models use the Cartacci MMS

automatic setting system. The introduction of the characteristic parameters of the bar allows the machine to calculate the correct setting for straightening.

Cartacci – Italy
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One of the Cartacci straightening machines in operation



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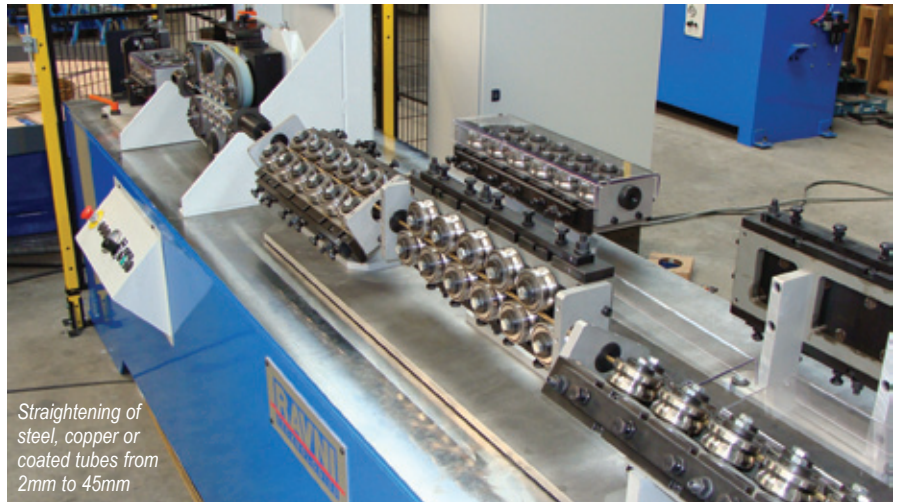
Tube straightening technology

RAVNI Technologies manufactures automatic tube straightening (and cutting) machines designed to run with steel tubes, stainless steel tubes, copper tubes and coated tubes from coils with a \varnothing range from 2mm to 45mm.

The company is well known for its skill in this area and, according to customer requirements, two main straightening devices are installed on the machines.

Rotary straighteners are fitted with special tools in order to prevent any damage on the tube. It is particularly used to achieve a very accurate straightness ($\pm 0.1\text{mm/m}$). This device is efficient for example for Inconel tubes with a very thin thickness (0.1mm) used in the aircraft industry. This technology can be linked with a flying saw or chipless cut. As an alternative solution, the rotation is stopped during the cutting time.

The second way is the more classic roller straightener with various options: from 5+5 horizontal and vertical rollers up to 11+11+11 in three plans. Ravni



Straightening of steel, copper or coated tubes from 2mm to 45mm

has developed mechanical memories dedicated for each diameter so that you can immediately find the setting when you change the tube. It can be fitted with digital indicators as well.

Motorised straighteners are also in the range and usually designed according to the


customer specifications. Ravni Technologies conducts installation, training and set up of the machines all over the world.

Ravni Technologies – France


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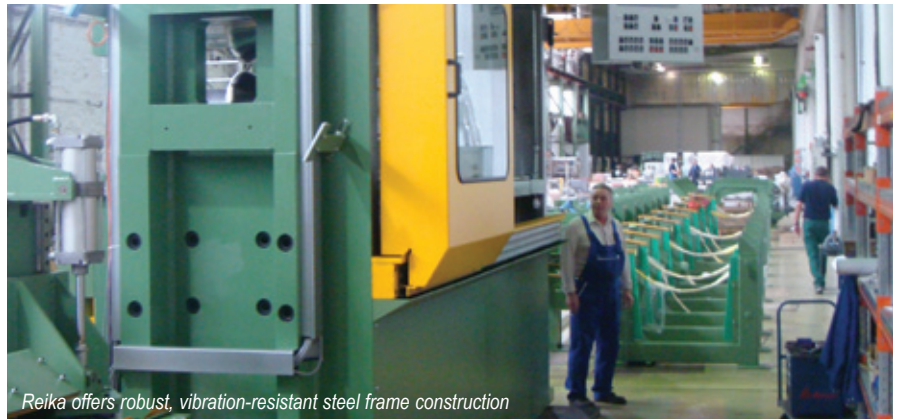
Maximum precision straightening

AFTER consistent development of its high-tech straightening machines and selling a number of 6- and 10-roll straighteners to tube and pipe mills in 2009 and 2010, Reika sold another four 10-roll straighteners in the last few months of 2011.

For sales manager Andreas Zimball, this is a result of years of hard work: "The requirements for tubes and pipes have grown strongly and steadily in recent years – regardless of pipe material or capacity. Reika is well-known for accommodating customers' demands for state-of-the-art design."

Key features such as robust, rigid and vibration-resistant steel frame construction, designed with the latest 3D CAD systems and optimised using FEM simulation, material protecting inlet and outlet troughs, large roller diameters for long-life operation, individual drives to compensate roller wear and easy to use operation with network CNC control are solid arguments.

Automatic, self-learning control helps to reduce setup times significantly.



Reika offers robust, vibration-resistant steel frame construction

"Dramatically improved precision in tube straightness and elimination of unstraightened tube ends provides customers with a direct economic benefit, so the return on investment is achieved after a very short time," said Mr Zimball.

All Reika machines are designed to meet requirements for more precise straightening quality. High precision is achieved by optimising the roller assembly,

and by using optimised roller geometry. Other highlights of the Reika straightening machine designs are fully closed housings and a compact design to comply with requirements for noise reduction and overall environmental protection.

Reika GmbH & Co KG – Germany

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- 60" x .156" Herr Voss 6-HI Leveler
- 60" x 40,000# Loopco 4 Arm Turnstile
- 60" Braner Duplex Drag Board / Rotary Tension Stand
- 60" x 14 Gauge x 11,000lbs Gabella Slear Line
- 40,000# Progressive 2-Arm Turnstile
- 40,000# Braner L-Type Coil Car

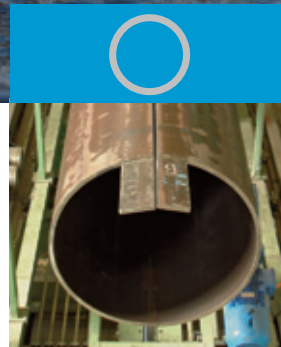


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Handling, Bundling, Packaging and Logistics



Pipe Coil Technology Limited: The Low Ovality technology in action (see page 217)

The word “handling”, with its suggestion of manual labour, may seem outmoded in a period when an industrial robot can feed blank hydroformed steel tubes into one end of a computerised injection moulding machine and collect over-moulded automotive front-end bolster assembly tubes at the other. When the same robot

delivers the tubes to a trim station and – trimming completed – places them onto an outfeed conveyor for delivery back to the operator, “bundling” and “packaging” can carry the same whiff of bygone times.

“Logistics” – the management of the details of an operation – is a

new word, but its very old meaning qualifies it for inclusion with the technology reviewed here.

For as long as hollow objects present more of a handling challenge than solid forms, these methods rooted in customised practice will retain their vital position in tube and pipe production.

Pipes stored automatically

TO automatically store and commission pipes, rods and other bar material or to get information about fully integrated storage and sawing cells, the Tube exhibition booth C27 in hall 6 is the place to be: the logistics and automation expert Remmert will present storage and handling solutions especially developed for lengthy goods, including its swift honeycomb storage.

The Remmert honeycomb storage system consists of two shelf blocks with honeycomb-like load carriers, as well as a storage and retrieval device that fully automatically stores and withdraws material. The heart of the system is the electromechanical pulling device – the so-called shuttle. It pulls the load carriers out of the shelf compartment and pushes them back into the honeycomb after commissioning. Contrary to customary hydraulic solutions, the contamination of sensitive stainless steel and aluminium items by oil is excluded through the electromechanical shuttle. Apart from that,



The Remmert honeycomb storage system

the high positioning accuracy of the pulling technology allows for a very precise and quick process execution, which equals a handling rate according to FEM of up to 60 double cycles per hour. In comparison to manual stocking, this equals a material handling time saving of 75% on average.

As a modularly conceptualised standard system, the honeycomb storage allows for very individual storage design, which can be easily adapted to new company demands at any time. The fully automatic

withdrawal of the material to an integrated commissioning zone is just as possible as the mechanical and data-technical connection of the storage to processing machines. Additionally, the logistics and automation experts of Remmert can also expand the system to a fully integrated sawing cell.

Friedrich Remmert GmbH – Germany
Email: info@remmert.de
Website: www.remmert.de



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Type:

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

Material:

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

Standard:

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

Size:

3/8"–60" The maximum size is up to 200"

Also supply casting pipe of heat and corrosion resistance and durability.

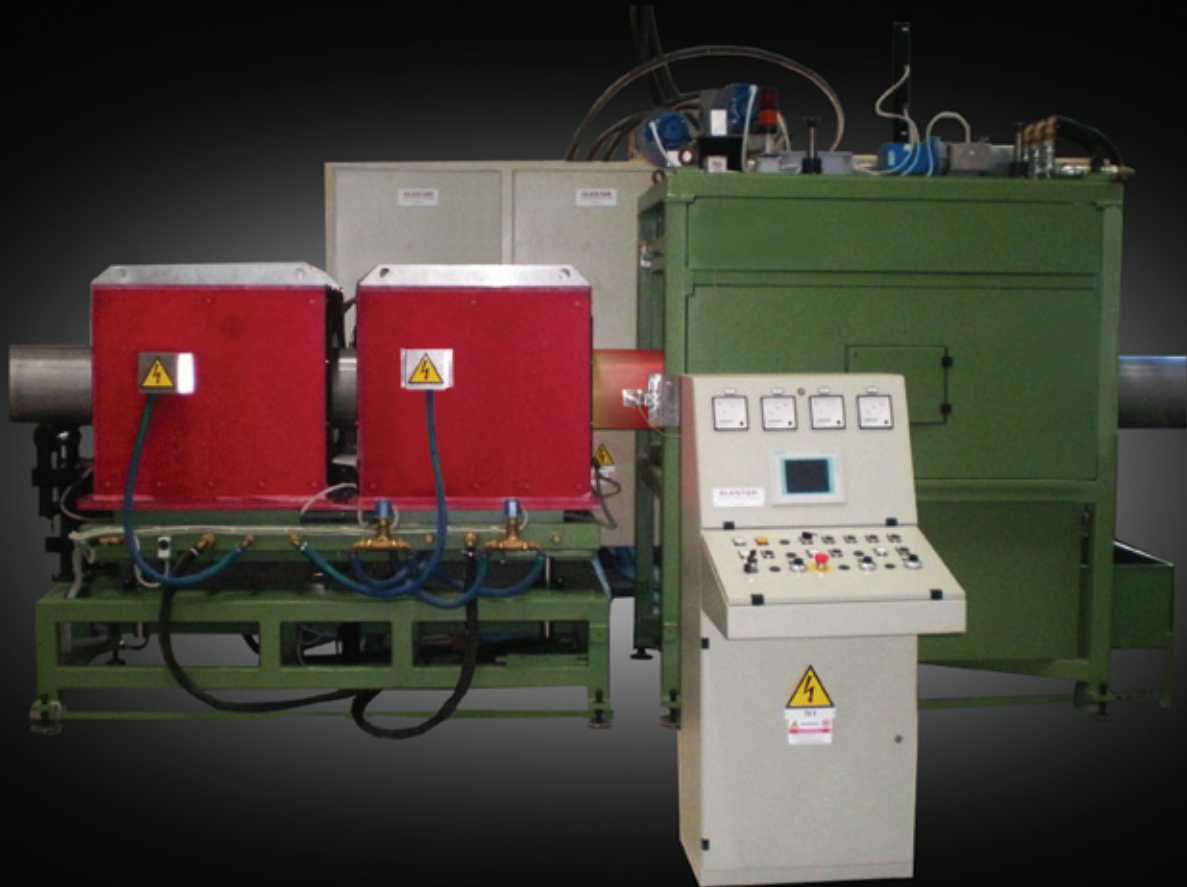


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26 – 30 March 2012 Hall 06 Stand 6D21

A cleaner 25-32 ton forklift truck

THE Hyster range of 25-32 ton heavy-duty forklift trucks and dedicated container handlers is now available featuring the new Tier 4i/Stage IIIB low emission engines, offering fuel savings of up to 15%.

"The new 25-32 ton range, which was first launched in 2010, is comprised of nine models, three of which are ultra compact," explains Antoon Cooijmans, big trucks product manager for Hyster Europe. The range of nine models includes four conventional forklift models with between 25,000kg and 32,000kg lifting capacity at 1,200mm load centre. Three new ultra-compact models are built

for operations where space is limited, with wheelbases of between 3.655m and 3.935m, and there are two container handlers which have a dedicated carriage for the container spreader.

All models offer class-leading lifting performance, and have been re-launched featuring Tier 4i/stage IIIB compliant engines, which are expected to deliver lower overall exhaust emissions and fuel savings of up to 15%. The robust powertrain ensures increased dependability for long periods of peak power operation with protection for the engine and the 3-speed transmission.

The Hyster world class big truck assembly line in Nijmegen is already building the 25-32t range featuring the new Cummins QSB 6.7 engine (up to 270 hp, 201kW) which delivers rapid boost at low engine rpm and then maintains high boost at higher rpm independent of engine speed. This is due to the Variable Geometry Turbocharger (VGT™), which varies the exhaust gas flow into the turbine wheel.

Hyster Europe – UK
Website: www.hyster-bigtrucks.com

Customised materials handling

FIND out how to improve handling and storage procedures by visiting Combilift on stand D41 in Hall 6 at this year's Tube. Combilift is the global market leader in the long load handling sector and manufactures a wide range of 4-way forklifts, all of which are designed for the safe, space saving and productive handling of the large and bulky loads typically handled in the tube sector.

Since Combilift was established 13 years ago it has sold over 15,000 units around the world. The key to the company's success has been its ability to supply tailor made forklifts according to individual customer requirements, and this customised approach has set it apart from other manufacturers.

Robust build and the ability to work inside and out for productive handling operations, whatever the weather, are hallmarks of the Combilift product range. The trucks work as counterbalance, sideloader, and narrow-aisle forklifts, enabling users to maximise available storage in and around the warehouse. Sideways travel with loads resting on the platform enables Combilifts to work in aisle widths of just 2m, and avoids the need for hazardous high-level transportation of long loads, significantly improving safety procedures.

With fully synchronised 4-way steering guaranteeing excellent manoeuvrability and flexibility of use, Combilifts can be deployed from the initial stages of offloading raw materials, during the manufacturing process, through to the handling, storage

and dispatch of finished product. Capacities range from 2.5t to 25t, with a choice of diesel, LPG and AC electric power options to suit customers' specific applications.

Combilift Ltd – Ireland
Fax: +353 47 80501
Email: info@combilift.com
Website: www.combilift.com

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Finishing Floor Solutions for global customers
Pipe mills around the world rely on the expertise of Brandt Engineered Products for their finishing floor solutions. The design and production of hydrotesters, pipe handling systems and processing equipment combined with the experience and knowledge of a team of specialists that understand plant efficiency will provide a custom solution for your operation. **That's powerful value, delivered.**

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Brandt

Prestar handling equipment

PRESTAR, Czech Republic, is a supplier of finishing lines and handling equipment for tube up to 420mm diameter. At the end of 2011 Prestar finished automated finishing the next line for Russian market.

Hot rolled tubes which are of 120mm diameter and 24m in length are cut on accurate lengths and the ends of tubes are chamfered.

Requirements for passing the tubes into non-destructive testing in line and variant passing the tubes out of the pocket off-line were merged into one finishing line with cycles up to 15 sec in addition of diameter

and material of the tubes. Optimisation of the managing software for automated passing and optimisation of the process of cutting is done turn key according to the final requirements of the Russian customer.

The next contract for 2012 was signed for handling and mechanisation delivery (separation, walking beams and sorting equipment). Tubes up to 168mm diameter and 13m in length come from non-destructive testing of the entire tube and non-destructive testing of ends of tubes.

Both finishing lines in lengths 108m and

68m are fully automated and the cycle of tube harmonised with NDT devices.

Besides handling for finishing line, Prestar delivers finishing line with cutting, chamfering, weighing and packing tubes.

Sema Systemtechnik GmbH is Prestar's partner for delivering machines such as straightening machines, testing tables and other special machines for tube finishing lines for eastern and middle Europe.

Prestar – Czech Republic
Website: www.prestar.cz

Handling of oil and gas pipe

HAVEN Manufacturing Corporation, USA, has expanded its material handling and systems control knowledge into the oil and gas pipe testing market.

In cooperation with a leading non-destructive test company, Haven has

designed a gantry and rail system that supports a full body phased array ultrasonic tester. The capacity of this system is from 64-535mm diameter and up to 15m long. A walking beam transfer device positions the pipe in the test station, while simultaneously

removing a tested pipe. In the testing station, the 11,000kg of pipe at one time requires both precision and robust construction.

Haven Manufacturing Corporation – USA
Website: www.havencut.com



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Redefining the installation of large diameter HDPE pipe

LOW Ovality technology from Pipe Coil Technology Limited (PCT) allows large diameter HDPE pipe up to DN315 to be coiled as free standing coils or reeled onto drums. This innovative technology has been used in Europe for many years now and is rapidly increasing in popularity worldwide due to the many advantages it offers. There are still many pipe manufacturers who continue to manufacture large diameter HDPE in the traditional 12 or 20m 'stick' lengths regardless of its final use. This is not only highly inefficient to store and transport but also drastically decreases the overall integrity of the installed pipeline as butt welded and electro fusion joints are still the most common inherent failure in a pipe designed to last 100 years.

Low Ovality Technology not only reduces transport costs by maximising the amount of coiled pipe per load but also greatly increases the integrity of the finished pipeline. For example, DN160 pipe can be coiled in 900m lengths allowing for a much quicker installation time, by removing up to 73 butt welds per 900m coil, and with less joints the pipeline's integrity is significantly increased. For larger projects, 4,600m of DN160 can be put on a reel increasing the efficiency of modern ploughing technologies. With new ploughing technologies and the need for longer continuous lengths and larger

diameters in coil form, Low Ovality is well positioned to remove the constraints of butt welding backlogs and joint failures during the installation and life time of the pipeline. Reels of this size would require an escort on highways, however, the cost savings made through a much more efficient installation process far outweigh the additional transportation costs, and with fewer joints, maintenance costs of the pipeline are also considerably reduced.

Even with pipe sizes that can already be coiled with standard coiling machinery, Low Ovality can make a big difference to profit margins through its ability to supply longer lengths of coil within existing coil dimensions, increasing the pipe length per

truck and so reducing overall transportation costs. Transporting thinner walled pipes in coil format also becomes a possibility with Low Ovality as it is capable of coiling pipes with SDR up to 21 & 26 whilst maintaining coil and pipe stability.

PCT Ltd is a privately owned company based in Newcastle, UK, with subsidiaries in the USA and China. The company designs and supplies coiling, handling and packaging solutions for flexible products such as plastic pipe, sub-sea umbilical, power cables, flow-lines and steel wire rope.

Pipe Coil Technology Limited – UK

Email: chris.spratt@pipecoil.co.uk

Website: www.pipecoil.co.uk



The Low Ovality technology in action

Streamlining asset management

MANY oil and gas leaders continue to struggle with one of the most difficult inventory control problems: the storage and movement of OCTG material to, from and within pipe storage and service facilities.

From pipe brokers to exploration services, oil and gas asset managers always need to know what they have in supply.

The service facilities often use methods such as the card system or complicated spreadsheets to track pipe movement, pipe storage, pipe threading, heat treatment, pipe inspection and pipe transportation, sometimes resulting in inaccuracies due to

human error. This error results in product being double sold, misplaced or mistakenly reported.

Scan Systems TDS® (Tubular Data Systems) is a specialised piece of software that was built by 'pipe people' to address the very specific needs within this niche industry. The inventory control and management software was built explicitly for the storage, handling and reporting of OCTG materials.

Software such as TDS provides not only an OCTG inventory management solution, but also a business process model that can help streamline the operations within

the pipe yard or service facility. As a result, all parties get an accurate depiction of where their inventory is at any point in time. This ensures that everyone from the plant manager to the forklift operator is 'on the same page'.

The software requires less time and resources to handle all OCTG inventory within the facility, which is key for this solution-driven industry.

Scan Systems Corp – USA

Fax: +1 281 219 2317

Email: info@scansystems.com

Website: www.scansystems.com

这一栏目专为我们
的中文读者介绍国
际管道行业的最新
技术和行业新闻的
综合信息。

在Otto Fuchs 试运转

SMS集团下面的HERTWICH Engineering GmbH有限公司在德国Meinerzhagen的Otto Fuchs成功试运转了两台两腔熔解炉。该熔炉年产量为50000吨，配有回热加热系统，有助于减少能耗和排放。Hertwich Engineering的新型Ecomelt熔解炉是从上面装载的。他们运用一体化废钢预热和使用浸泡熔化工艺，使其能实现高的成材率。

SMS Meer GmbH – 德国
电子邮件: info@sms-meer.com
网址: www.sms-meer.com

Hertwich Engineering GmbH – 奥地利
网址: www.hertwich.com

PEEK聚合物挤出管在线资源

管子应用需要在越来越高的条件下进行，因此工程师需要努力开发能提供性能增强的解决方案。因此，他们正在寻找新的在线资源来提供创新的材料解决方案以及快速访问能解决他们的管子应用开发需求的专家。

Victrex Polymer Solutions公司推出新的网站www.victrexpipes.com，是用来了解高性能Victrex® PEEK™ 聚合物挤出管和管产品方便的资源。这个网站展示了Victrex管子的好处，在广泛的市场和应用领域为金属和其他聚合物提供替代品。该网站也能够

采用动态双扫描对钢制/金属 型材进行准确的在线厚度测量

ZUMBACH Electronic公司增强和扩展了钢、铜和各种金属制精密型材精确的非接触测量系统系列。动态双扫描(DDS)法是解决方案。

在生产线上对精密型材如冷轧或拉拔型材进行精确的厚度测量一直都很困难。

触觉系统在接触点上受到磨损或损坏，而所有光学系统又有误差大的问题，这样型材相对光学传感器就会有轻微的扭转。强制的机械引导会对产品造成损坏，因此通常禁止使用。

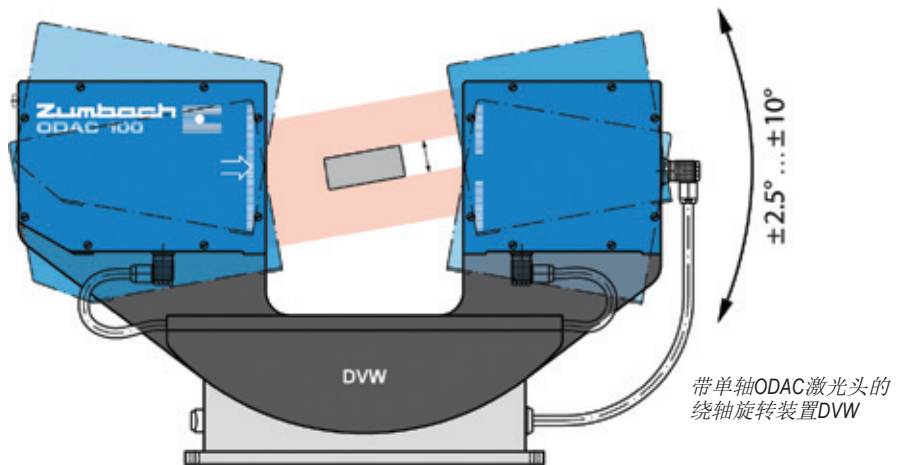
可以选择以光切原理为基础的视觉检测系统，但通常又太贵了。

长期提供电线电缆和钢产品直径控制ODAC®激光扫描仪的Zumbach公司现提供一种成本中等的新型、精致、高效的解决方案。

在新的绕轴旋转装置上装有一个高速激光头，可通过动态最小值检测法检测和测量相关的厚度。该方法能提供高度准确的读数，完全独立的产品导向或可变扭转。高达2000/秒的高速测量和复杂的处理器软件是该系统的主要部分。

该系统基本由一个ODAC F激光头，一个用于动态扫描的DVW绕轴旋转装置以及一个USYS处理/显示单元组成。如果对宽度也感兴趣，带2个轴的ODAC-XY检测头可以同时捕捉厚度和宽度。各种型号的激光头和DVW装置适用于各种特定应用和尺寸。

Zumbach Electronic AG – 奥地利
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替代品，为大大降低重量提供了潜能。

新网站已经设计用来告诉用户Victrex管系列的特性和好处以及他们是怎样帮助解决特定行业内的具体挑战的。它还提供对Victrex的技术资料和数据表综合图书馆的访问。该网站设计用作信息访问资源，这是对那些为了减少停机时间、降低重量和系统成本以及扩展其应用的安全性范围而需要更换金属和其他聚合物的关键决策者、设计师、工程师和原始设备制造商最直接和现有的好处。

Victrex Polymer Solutions – 英国
网址: www.victrexpipes.com

直接与管道团队技术熟练的人员联系。代表材料和制造技术最新发展的Victrex管子为石油和天然气、工业和航空航天领域出现的要求越来越高的操作条件打开了许多新的应用机会。

Victrex管能耐高温、耐腐蚀和耐化学侵蚀，为当今石油和天然气工业日趋苛刻的条件以及要求越来越高的工业环境提供了增加资产有效性和可靠性的机会。

在航空航天领域，制造商们正受到设计轻便、最佳节能飞机需求的驱动，而Victrex管，作为金属的轻量级

管道涂装系统和管子搬运设备

SELMERS是一家荷兰的私营公司，专门从事管子内外涂装、管子清洗和管子搬运设备制造。公司早在1966年就成立了，现在已成为广泛的管子涂装系统知名的供应商，尤其是定制的陆上和海上管子涂装和管子搬运设备。

Selmers代表一个高学历、经验丰富的工程师团队，能够完美熟练地提供创新且可靠的定制设备解决方案。Selmers能设计和厂内制造，有短的通信线路以及单个设备部件最佳的接口。这使得Selmers能以极具竞争力的价格水平生产可靠有效的管道涂装设备，为客户提供最佳支持。

Selmers产品范围包括一个大量的外部多层和内部衬里管道涂装设备项目，有AO磨料喷砂设备、烤箱、铬酸盐洗和酸洗设备、液体和粉末环氧设备以及厂内制造挤出机。

Selmers也有一个针对用于铺管船的管子搬运/烘烤设备以及用于管段底部（轧辊、对齐系统以及顶管机）的现场焊缝喷砂和涂装系统（热胶泥、FBE和3层PE）以及多接缝设备的海上项目。

除了这些项目，Selmers还提供混凝土称重和水泥砂浆喷涂设备、钢筋

粉末喷涂生产线、就地设备、集装箱配置、质量控制设备、以及客户定制。

该项目最重要的是自行驱动的涂层清除和重新衬里机器，用于现场管道修复。

Selmers的产品范围符合所有必要的国际标准，得到高质量设计部门（利用CAD/INVENTOR）以及一流的质量管理系统的支持。

设备提供从初步设计、技术、构造、制造到安装、调试和售后服务的全套项目支持。

Selmers BV – 荷兰
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Selmers 生产高效管道涂层装置



Wuppermann集团扩展了焊接钢管产品范围

Wuppermann集团在收购了波兰的Malomice生产厂后扩展了产品范围。生产场地先前属于Alpos集团。Wuppermann的技术产品部现在能提供碳钢管以及酸洗、镀锌和不锈钢管。生产在Wuppermann Polska sp zoo名下恢复，新总经理为先前受雇于Alpos的Konrad Waszak。

“我们的目标是在东欧建立我们的业务，这就是为什么此次收购对Wuppermann来说具有的战略意义。” Wuppermann AG董事会财务总监和发言人CL Theodor Wuppermann博士评价到。“十年来我们一直在捷克共和国生产，目前我们正继续扩大在这里的场地。最近的这次收购提升了我们在东欧钢材市场的形象并继续我们的增长政策。”

在Malomice的工厂有两条管道生产线生产碳钢和镀锌管。一个带钢系统向工厂管道生产线提供材料。它

也用于客户带钢订单加工。一个管道锯切系统可以加工管子。

“在波兰的新生产场地为我们的产品范围增加了碳钢管。现在我们可以向所有Wuppermann客户提供完整系列的焊接钢管，” 董事会成员负责技术产品部的Arnd Schaff博士说到。

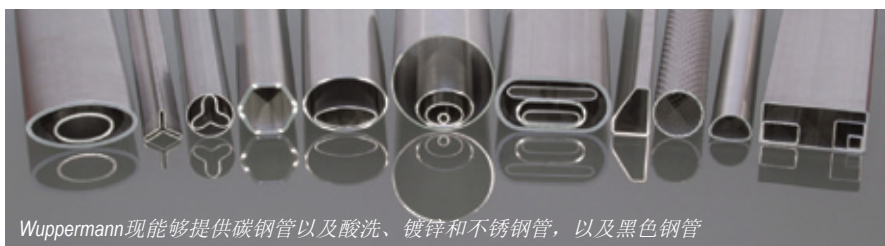
该生产厂是基地在斯洛文尼亚的Alpos集团破产财产的一部分，并于2010年12月破产。

Wuppermann集团的产品组合包括用于电子行业、车间装配和机器构

造领域、医疗技术部门、家具、食品、包装和太阳能工业、水和废水技术以及白色商品的钢、不锈钢以及铝轧制扁钢产品、管子、管组件以及钣金件。

该集团在欧洲有12家生产厂和1200多名员工。

Wuppermann AG – 德国
 传真: +49 2171 5000 802
 电子邮件: info@wuppermann.com
 网址: www.wuppermann.com



Wuppermann 现能够提供碳钢管以及酸洗、镀锌和不锈钢管，以及黑色钢管

圆锯专家

TSUNE公司生产一系列高性能硬质合金圆盘锯切机和硬质合金锯片。其技术的多样化意味着Tsune锯片能够根据客户的所有要求进行定制生产。1917年在日本富山成立的Tsune公司现在经营三个独立的设施,生产全面的产品系列,并通过合作伙伴出口到欧洲。

为了向Tsune和其产品提供支持,英德合作伙伴Sawcraft UK和SCS Peter Brommer推出了网站——www.scs-pb.de——来配合Tsune参加的2011 EMO 展缆会。九月份在汉诺威举行的EMO展会预示第一次有机会参观Tsune

在欧洲土壤上的展台,也是公司第一次在亚洲和北美洲以外的地方展览。Sawcraft UK总经理Alan Hicks对EMO展会评价到:“此次EMO展是Tsune公司很长的历史中的一个真正的里程碑。下阶段是发展在欧洲的表现并证明Tsune为客户提供最新的机器技术和专门开发的锯片这一独特理念,使客户的投资回报最大化。”

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传真: +44 121 561 5691
电子邮件: sales@sawcraft.co.uk
网址: www.sawcraft.co.uk

腐蚀映射扫描解决方案

建立在成功的Corrosion WheelProbe基础之上, Sonatest Ltd有限公司开发了一种新的半自动腐蚀映射解决方案。Veo & Corrosion WheelProbe (CWP)扫描系统是根据客户要求开发的新的增强型系统,以更简单的半自动方式提供100%覆盖。该系统由veo 16:64相控阵探伤仪,一个64元素Corrosion WheelProbe以及一个CWP扫描器组成。Corrosion Wheel Probe是经管道、石油和天然气行业内许多公司反复考验的腐蚀映射解决方案。

Corrosion WheelProbe (CWP)的扫描宽度在一个通道内接近50毫米,可以用于直径4" 到42"的管道。顺应的轮子可以与粗糙的表面贴合,而且这种设计能够在深度和振幅上进行一致可靠的检查。这种振幅模式增强了发现小凹陷这样的缺陷,这样的缺陷通常对

超声的反应不明显,但结果确非常清楚的显示了内部情况。

CWP安装在一个可调的连接器的上,配有二级编码器,允许多个相邻的扫描并很好的搭接形成完整的覆盖。CWP扫描系统的明显优势是在检查区域额外的电源需要上有相对简单和完全的自主性。易于携带而且装配和配置快速对业内用户来说也是一个主要的优势。Veo & CWP扫描系统使完全手动的小面积扫描在利用CWP上非常灵活,比如对于容器(已使用LRUT)管道工程的筛选,或者——在一定范围内——用于沿管子长度(轴向)上的扫描。

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Sonatest的腐蚀 WheelProbe

管子搬运和夹紧

KISTLER管子旋转器用于手工和自动焊接过程中的管子夹紧、旋转和倾翻,主要用于现场预制或组装的管子施工领域。很多机器都已用于管对管对焊工艺中。在“U”系列有三种机型, U150 (用于20毫米到200毫米直径的管子)、U500 (用于20毫米到400毫米直径)以及U1000 (用于25毫米到800毫米直径)。Kistler的管子旋转器拥有专列的夹紧轧辊系统,与传统机器相比具有以下优势:



Kistler的U150管子旋转器

- 他们能够用于带有弯头、三通或其他偏移荷载的管子
- 可用于大范围内的管子夹紧。因具有独立的驱动单元,因此无限可变的转速不会受到管子尺寸的影响。
- 快速精确的定心和夹紧,无需夹盘或夹托架
- 灵活的管子搬运——能够在管子重心夹紧管子
- 倾翻力矩和支撑在大多数情况下都无关紧要
- 能够为两根直径相同的管子定心
- 有各种不同的组合,包括夹紧和一个主轴驱动

标准的管子旋转器设计用于360度(向前/停止/反转)旋转工件,带变速控制以及从水平到向前和向后倾翻。旋转和倾翻可单独或同时进行。倾翻部分由驱动和轮箱、托柱、夹臂和压辊组成。所有标准装置上都具有夹辊系统手动垂直高度调整功能。所有机器都有从定向脚踏板到Diablo管支架的任选配件。Kistler的“U”系列管子操纵器通过普雷斯顿的YPH Ltd有限公司在英国独家发售。

YPH Ltd – 英国
网址: www.yphltd.co.uk

无凹凸生产

软管和管子表面极小的凹凸降低了管子的质量而且常常导致整个生产批次不合格。

凹凸探测器，如Sikora的Lump Series 2000系列，用于软管和管子生产过程中在线检测表面缺陷，从而来保证质量。

Lump Series 2000系列包括二轴和三轴检测系统，用于检测直径0.25到35毫米的产品。

检测头可以在所有线速度下检测到长度偏差为0.55毫米，直径偏差为0.01毫米的凸起和凹陷。该设备能区分凸起和凹陷，如果超出规定公差范围会发出缺陷报告。利用一个强大的信号处理器进行分析、数据显示和储存缺陷位置数量、高度或深度以及长度。

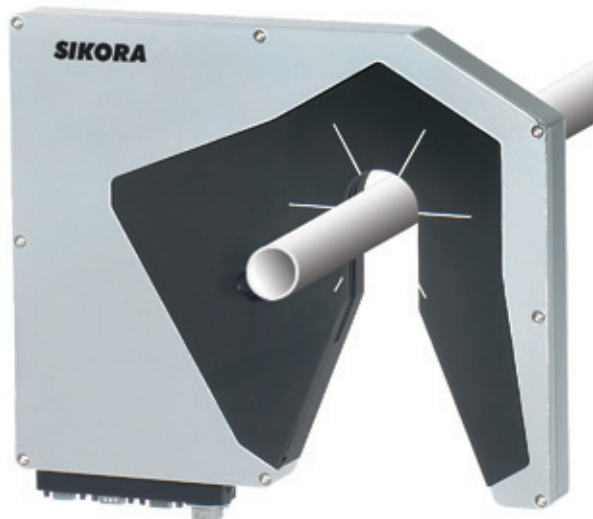
该设备的一个亮点是双传感器技术。在光源以及光传感器的帮助下，即使在极端的条件下比如产品脏或者产品在振动的情况下发现缺陷。

有了双传感器技术，能在高达3000米/分钟的生产线速度下可靠的探测到表面缺陷。

二极管光束通过测量平面并将检测对象作为影像投射到对面的传感器上。

根据底片(影像)，二极管发出信号，二极管信号在一个差分放大器内进行比较。该方法对外来光以及电缆的垂直移动不敏感，因此能不断取得可靠的结果。

Lump Series 2000系列提供串行接口，如RS485和RS232。还可以选择Profibus-DP接口或工业现场总线，如EtherNet/IP-、DeviceNet 或CANbus，直接与个人电脑或显示器连接，而且还提供控制设备Remote 2000。



Lump Series 2000测出的凸起和凹陷

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管道施工的生产优化和生命周期管理

管道施工是劳动力和成本花费高的施工，但是也有一定的合理化可能性。这不仅是由于经济型生产设备的安装，也是通过智能软件系统有针对性的应用实现增值过程优化组织的结果。

但如果为了实现最大可能的好处，两方面都不容忽视。拥有管子弯曲和加工设备及系统和软件解决方案以及满足管道施工(如造船、海上工业或工厂工程中)特殊要求的定制方案，Tracto-Technik (TT)总是拥有正确

的解决方案用于这些优化过程。

TT使用模块化设计的Pipefab生产管理软件包装为管道施工提供了拥有广泛CIM功能的分支解决方案，数位化结合了管道寿命周期的全部方面——从设计到材料管理，生产到装配。Pipefab发展背后的基本思想是来自有效系统实践中重复生产要求，并与普遍的解决方案联系起来。

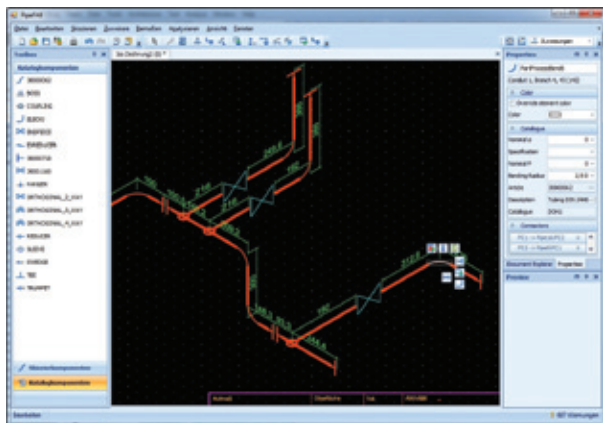
P&ID(管道和仪表流程图)、管道平面图和单线图的建立是单项工程和计划步骤中的一部分。这些单线图能够通过接口从不同的3D-CAD系统上轻松地传到PIPEFAB。此外，还可能由不同类型的3D管子测量系统(例如测量将被替换的有缺陷的管子)测得的测量数据生成管道单线图或在PIPEFAB中的单线图模块的帮助下直接生成单线图。

管道单线图储存在中央数据库，他们代表生产的基本数据。其中，软件编制工作计划和管段，负责生产时间和成本计算，执行储存管理(包括材料需求计划功能)；下发弯曲、锯切或火焰切割清单并提供数控数据，用于生产过程中的加工机器。

优化过程是从管子库存里的管子原型开始的。用于管子库存控制的储存管理模块、输送系统以及锯切装置集成在PIPEFAB里，也包括坯料优化功能，这能使锯切废料最少化，并通过计算已输送长度和剩余件来优化材料消耗。

另外，材料需求预览功能显示可能缺少的量，并且允许在合适的时间获得所需的管材。通过合并中央PIPEFAB数据库内单个生产装置能够生成生产通知单(生产批量)。与每个生产通知单相关的所有数据会适时地在单个工作站提供。为每个生产装置指定的生产站顺序是显示在集成路线里的。此外，给出每个生产站的确定工作时间和小时工资率，这样就能直接计算生产过程中的制造成本。

所有与生产相关的文件,可以从管道单线图和相应的管件清单中获取



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Maximising output in high-frequency tube and pipe welding

By Bjørnar Grande and Olav Wærstad, EFD Induction

Abstract

The authors evaluate the parameters that influence welder performance and scrap production during changeover in the high-frequency tube and pipe welding process. The paper focuses on the welder system's features during changeover. The parameters involved are welder recipes, energy consumption monitoring, and matching capabilities.

Introduction

Maximum throughput in a high-frequency tube and pipe mill is achieved by a welder that features:

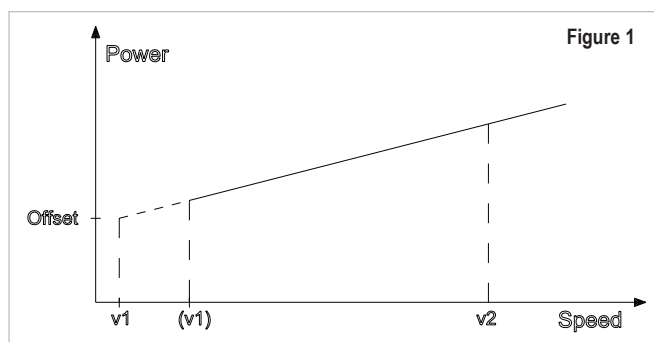
- High uptime
- Consistently high weld quality (to minimise scrap)
- Flexibility
- High total electrical efficiency

High uptime is a prerequisite for high throughput and was addressed in the paper *Maximising Uptime in High-Frequency Tube & Pipe Welding*¹. Key design features for maximising uptime are:

- The welder must withstand short circuits
- The welder must work with high ambient and cooling water temperatures
- The welder should not feature continuously operating mechanical parts in order to avoid problems caused by fatigue, wear and jamming
- The welder should be based on IGBT transistors, the most rugged inverter switch available

Flexibility means a welder that can:

- Perform over a wide product (tube/pipe/profile) range
- Weld different materials



- Ensure short changeover times, with minimal operator intervention
- Contribute to easy start up of new products, with minimal scrap production

The topic of achieving consistent high weld quality was covered in the paper *Maximising Output in High-Frequency Tube and Pipe Welding*². This document is a continuation of that paper, and focuses on how to achieve consistently high weld quality and welder flexibility during changeover.

Important features during changeover

Minimising scrap requires that the least possible amount of steel strip is consumed during a changeover. This means that the mill and welder parameters from previous successful production runs should be available as a recipe for the next product. The recipe should be downloadable to the welder's control system, and should be used to automatically preset the required settings for automatic power/speed control for the product to be welded. These settings are:

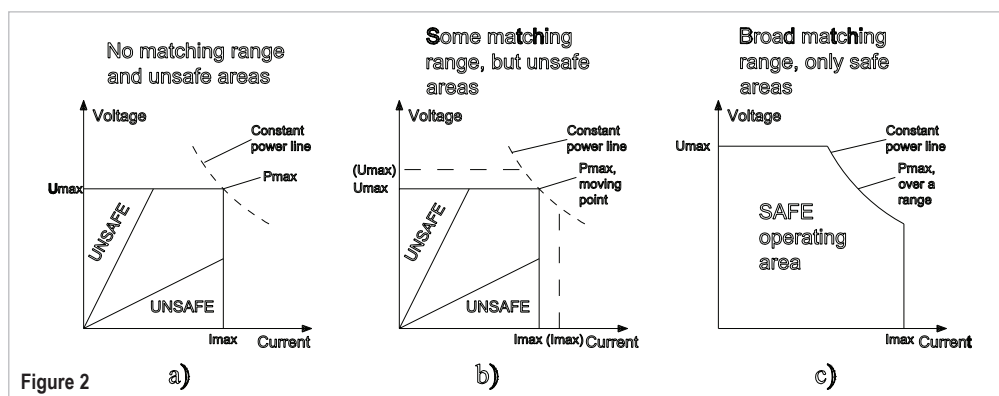
- Adjustable mill speed at which weld power is turned on, to minimise scrap
- Start weld power offset
- Weld power-speed gain slope

Where temperature monitoring is in use, the weld temperature set-point and acceptable temperature tolerances must be included in the recipe. The use of recipes relieves the operator from performing test runs to find the correct power input and weld quality for the next product.

It must be emphasised that successful changeovers do not rely solely on the use of recipes for the welder parameters. Experience shows that the mill (weld) set-up is extremely important for weld quality and power consumption. The mill set-up parameters should definitely be defined in a mill set-up recipe and, together with the welder recipe, should be available for the overall mill quality system. Recipes for existing products can also be used as good starting points when new products are to be welded. This minimises scrap, and reduces start-up times for new products – thereby maximising mill throughput.

At the end of changeover it is important that the operator can quickly see whether the mill is properly adjusted or not. He should also see that coil and impeder size and position, as well as impeder cooling, are correct. If these parameters are within reasonable limits and the correct welder recipe is downloaded, energy consumption will be

roughly equal to that achieved in a previous successful production run. This indicates that the set-up is within specified limits. Therefore, the welder system should include the possibility to display the energy consumption factor and the accepted tolerances from the previous reference run. The tolerance values should be available as part of the welder's recipes.



Changeover and welder flexibility

The mill operator has many tasks to perform during a changeover. In this situation, it is beneficial if the operator does not have to perform several adjustments to the welder or coil in order to achieve safe and reliable welder operation. Different welder designs influence this part of the operator's workload. Some welder manufacturers offer welders with matching capabilities, while also offering cheaper versions that lack this important feature. In other words, the welder does not have any means of matching the load to the power supply. Other manufacturers such as EFD Induction ensure that all their welders are equipped with a matching range.

A welder with some means of matching – ie featuring a matching range – is a welder with the capability to match the different loads' electrical characteristics (impedances) to the power supply of the welder, in order to deliver nominal (maximum) output power. The impedance is influenced by the tube dimensions, mill weld setup and induction coil size and position. For a welder without matching range the coils must be specially designed to match the load (coil and steel strip) to the welder's power supply.

These welders have only one operating point at which nominal power is available. It is not feasible to reach this single point for more than a few tube dimensions through coil design alone. This means that the welder's available output power and weld speed is extremely sensitive to weld set-up variations. If the single optimal coil is damaged, a replacement coil, originally designed for a larger size tube, will reduce available power and throughput. In a situation like this, the number of test runs and the amount of scrap will increase. Moreover, to obtain nominal power through coil design can also lead to a coil that does not optimise the weld process. The end result compromises throughput in steady state operation, not only during changeover.

A welder with some means of matching may not be straightforward to use during changeovers. Whether or not this is the case depends on how the matching feature is implemented. Welders are available with and without some matching range, where parts of the total operating area are unsafe (Figure 2a and 2b). In these cases the operator is responsible for running the welder within the safe area. The welder (inverter part) is likely to be damaged if operated in unsafe areas. Welders with such implementation of matching are better than welders without matching range, but they clearly

place more demands on the operator, and require more test runs at changeover, thereby increasing scrap. The best overall solution is a welder with a broad matching range to cope with unexpected operating conditions and the practical tolerances required and given by the total weld process. A welder offering a total operating area, completely without any unsafe areas is, without doubt the best choice (Figure 2c). The EFD Induction Weldac offers this feature, thereby ensuring easy operation during changeover. This in turn minimises scrap and changeover time.

Conclusions

Maximum throughput in a high-frequency tube and pipe mill requires a welder that contributes to consistent quality and minimum scrap production. The evaluation of the parameters influencing quality and scrap production, conducted both in this and a preceding paper², has led to the following conclusions:

- Stable weld temperature requires a weld output power without low frequency ripple. A welder with a passive diode rectifier, some smoothing circuitry and rapid power regulation in the inverter is the best overall solution. This is particularly true in order to meet the strict requirements of high speed mills and mills producing stainless steel tubes.
- Recovery after short circuits in the load is optimised by welders with ultra-fast power regulation in the inverter.
- The use of welder recipes, including energy consumption monitoring, minimises scrap during changeovers. It also ensures fast changeovers and repeatable quality and production.
- EFD Induction strongly recommends welders with automatic matching, without any unsafe or restricted operating areas.

References

- ^[1] "Maximising Uptime in High-Frequency Tube & Pipe Welding"; B Grande, JK Langelid, O Waerstad, *Tube & Pipe Technology*, March 2011
- ^[2] "Maximising Output in High-Frequency Tube & Pipe Welding"; B Grande, O Waerstad, *Tube & Pipe Technology*, September 2011

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Induction bending takes an innovative route

By Dipl.-Ing. Andreas Diepgen & Hans-Peter Klos, Siemens AG, Germany

Abstract

A Technology CPU controls the hydraulic and electrical axes of large induction bending machines

Introduction

Precision control of hydraulic and electrical drive axes is essential for high reproducible quality in the induction bending of large, thick-walled pipes. A leading manufacturer of bending machines has coordinated the interplay by means of a PLC with integral motion control and hydraulic functions. This approach is highly accurate, dispenses with a separate hydraulic control, and simplifies and standardises the handling – as well as being cost-effective.

Bending steel pipes of up to 1.6m in diameter, 120mm wall thickness and 18m in length places high demands on the machining process. Despite the large scale, the angle tolerances are small ($\pm 0.5^\circ$ for bending angles up to 183°) and a high repeat accuracy is demanded. For this reason, wall thinning and non-circularity must be constrained in the area of the bend. In the ideal case, it should be possible to implement several bends in sequence to obtain three-dimensional piping constructs in a single clamping operation.

Since bending processes can extend over several hours for certain materials and applications, constant velocity is essential for the hydraulic feed axis, which must be accurately acquired, controlled and coordinated with other axis movements. This ensures that the heat induced in the material can be adequately controlled.



Figure 1: With induction bending machines such as this SRBMI with a feedrate force of 2,000kN, AWS Schäfer Technologie GmbH has become the world leader in recent years

Since the 1980s, AWS Schäfer Technologie GmbH (see below) of Wilnsdorf, North Rhine Westphalia, Germany, has developed into one of the leading manufacturers of induction bending machines [Figure 1]. Some of its patents, in particular, have impressed a growing number of customers, one reason being that in contrast to familiar techniques the company masters almost contact-free bending without the need for expensive tools.

Another factor frequently noted in the decision to purchase is the system-wide control and drive technology favoured by AWS, a perfectly interacting complete package from Siemens.

Expertise in piping

AWS Schäfer Technologie GmbH of Wilnsdorf (North Rhine Westphalia, Germany) has been developing and building efficient machines for manufacturing and bending pipes for more than 50 years. More than 3,000 machines have been commissioned around the world so far.

Induction bending machines are used in various sectors of industry, for applications in the areas of apparatus construction, oil and gas pipeline technology, power plant construction, refineries, shipbuilding, steel construction, architecture and traffic control systems.

In contrast to other pipe bending machines, the AWS Schäfer techniques are characterised by:

- Bends with:
 - Lowest R/D ratio (up to 1.25 x D)
 - Bending angles from 1 to 183°
 - Complex, three-dimensional bending geometries
 - Minimal wall thinning and non-circularity
 - Bending radii from 75mm to infinity
 - Helical bends
- Multiple bends with fewer welds and therefore minimal inspection requirements

- Bending of ferritic, austenitic, demanding duplex materials and materials used in power plant engineering, such as P91/P92
- Maintenance-optimised operation and maximum availability
- Short set-up and handling times

AWS Schäfer also develops and builds high-performance pipe calibration machines, T-joint fitting machines, pipe end expanders, pipe end milling machines, hydroforming machines and special machines.

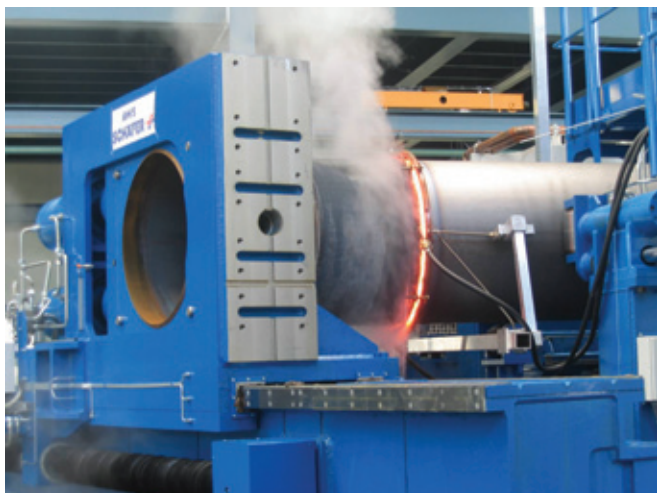


Figure 2: The precise amount of heat is introduced to the pipe via the inductor as determined by the material and the specification

Noticeable improvement

The bending technique of AWS builds on a rugged machine bed that is traversed by means of hydraulics in the lengthwise direction and servo motors in the lateral direction. The feed trolley is mounted on this bed and features a rotatable collet for three-dimensional bending.

One or two hydraulic cylinders move the feed trolley depending on the feedrate force required. To shorten the construction length, the feedrate force is redirected via rollers and chains, and the pipe is pushed through the inductor at constant speed [Figure 2] into the pivoted bending arm.

The pipe is fixed into the bending lock in the bending arm such that the desired bend is achieved as a result of the forces and movements applied. A decisive process engineering advantage here is that the pipe is not bent over a bending roll that has been



Figure 3: A Simatic 317T Technology CPU from Siemens maintains the constant velocity of the hydraulic feed axis and perfect coordination with further servo axes – ensuring a constantly high and reproducible bending quality

adapted to the respective diameter. “This results in considerably less non-circularity in contrast to other techniques,” emphasised sales director Winfried Heinemann and technical manager Dietmar Otte.

Joint response to a single command – High-precision hydraulic feed...

All sequences and traversing movements of the SRBMI machine(s) are coordinated by one Simatic S7 317T Technology CPU from Siemens (referred to from here onwards as the “T-CPU” – Figure 3). The machine manufacturer decided to implement this controller because it enables a combination of hydraulic and electrical axes to be precisely controlled with simultaneous coordination of up to 32 axes. The recently updated FW Version 4.2 also supports advanced hydraulic functions, such as pressure and force control, as well as pressure limiting. This dispenses with the need for a separate hydraulic controller in the more hydraulically demanding hydroforming machines of AWS, thus saving on the associated interface, installation and programming costs. It also ensures that the control cycle times are short.

In the case of induction bending, AWS uses hydraulics for precision control of the feed velocity and the clamping forces to generate the necessary bending torques by means of a servo valve and a technology function block. The actual values are acquired by 25-bit SSI encoders throughout which are integrated into the system via a Simatic ET200S SSI Technology Module. A comprehensive package of PLCopen-compatible function blocks is available for the Technology CPU used for closed-loop control, which can be interconnected like conventional standard function blocks in Simatic Step 7. This is possible simply by expanding the engineering platform with the S7 Technology option package. There was no need to learn a new motion control language, which made it easier and safer for the application programmer of the bending machine to make a start with the new system.

The “GetCharacteristics” technology template proved to be extremely easy to use for automatically recording the hydraulic characteristics of proportional and servo valves. It acquires the non-linear characteristic of the controlled system [Figure 4] and transfers this to the technology processor.

The technology firmware compensates for non-linear sections and dead zones on the basis of this information. The result is a reproducible control response with a high degree of closed-loop control accuracy. “We can achieve a tolerance of $\pm 1\text{mm/min}$ at a maximum feed velocity of up to 100 mm/min and a temperature tolerance of $\pm 5^\circ\text{C}$ at a level of $1,000^\circ\text{C}$,” said Dietmar Otte, “and therefore the accuracy that we need.”

A new development from AWS concerns a manipulator controlled via the T-CPU that is also hydraulically driven in the feed direction. This centres and guides the pipe during loading and unloading, so that the inductor and cooling no longer have to be dismantled, thus reducing the setup times by more than half.

... and coordinated traversing using servos

When large forces are less important than precise positioning and synchronisation of the axes, AWS relies on electromotive drives. These can be used to approach the starting position (in the longitudinal and lateral direction), for loading and unloading, for setting the bending radius and for matching the inductor to the feed velocity or to the change in wall thickness, as well as for both driving and balancing the torque of the bending arm and for traversing.

The system-wide Siemens solution used for this purpose is the modular Sinamics S120 drive system in booksize format (poss. in Figure 3) in combination with servo-gearred motors of the 1FK7 series. The T-CPU communicates with the Sinamics drives via the isochronous Profibus DP (Drive) interface. This creates the basis for high-precision, dynamic motion control.

The controller also provides various motion control functions for this purpose, which support position control of single axes, as well as easy synchronisation of the complex motion of multiple individual axes. This is particularly useful for synchronising gears or curves, for example, where the synchronised axes can be coupled to a virtual or real master.

A further three servo axes are available for traversing the inductor in the horizontal and vertical directions (coupling distance from the pipe). The degree of wall thinning can be influenced in this manner and the introduced heat can be varied in the different phases of the bending process.

Apart from the motion control functions already mentioned, the T-CPU Simatic 317T also implements the logic operations of the bending machine in the standard PLC section and ensures smooth execution. "With the T-CPU, we have found the perfect controller for these and other applications, not too complex and therefore cost-effective, easy to operate, and absolutely impervious to the highly inductive power of up to 1,600KW," says Winfried Heinemann.

Industry-compatible operator control and monitoring

The latter also applies to the HMI system of the bending machines, an industry-compatible Simatic Panel PC677B with a Simatic WinCC flexible user interface for creating and monitoring bending programs. And to a Simatic touch panel in the control cabinet door of the induction system from another supplier. The panel PC is also an engineering station and gateway for remote access, in this case using freely available software.

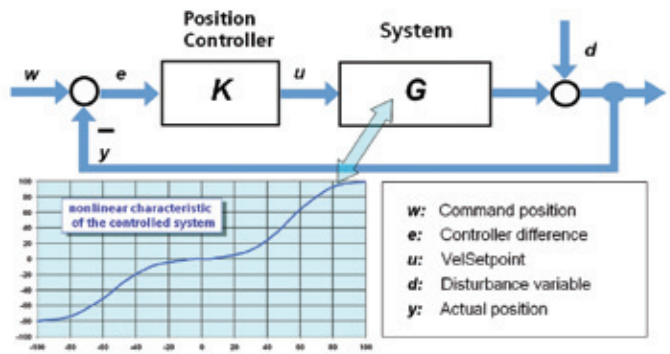


Figure 4: Hydraulic controlled system with a typical non-linear characteristic. Using the "GetCharacteristics" technology template, the characteristic can be automatically acquired and linearised – for optimum closed-loop control

Everything from a single source

The T-CPU has given AWS Schäfer their new standard controller for induction bending, calibration and hydroforming machines. Winfried Heinemann: "Aside from the technical and commercial advantages of the T-CPU, the consistent use of Siemens components in large parts of the world has proved to be a genuine sales argument. Because customers know that all components are certified for use around the globe, and that they can obtain spare parts quickly and, if necessary, comprehensive support as well."

The company has also already appreciated the benefits of this last point when an application engineer from Siemens supported them with replacing the previous automation solution with the Simatic T-CPU, the simultaneous introduction of the new drive system, and subsequent optimisation of the programming and execution. The complete package is such a perfect fit, concluded the North Rhine Westphalian machine manufacturer.

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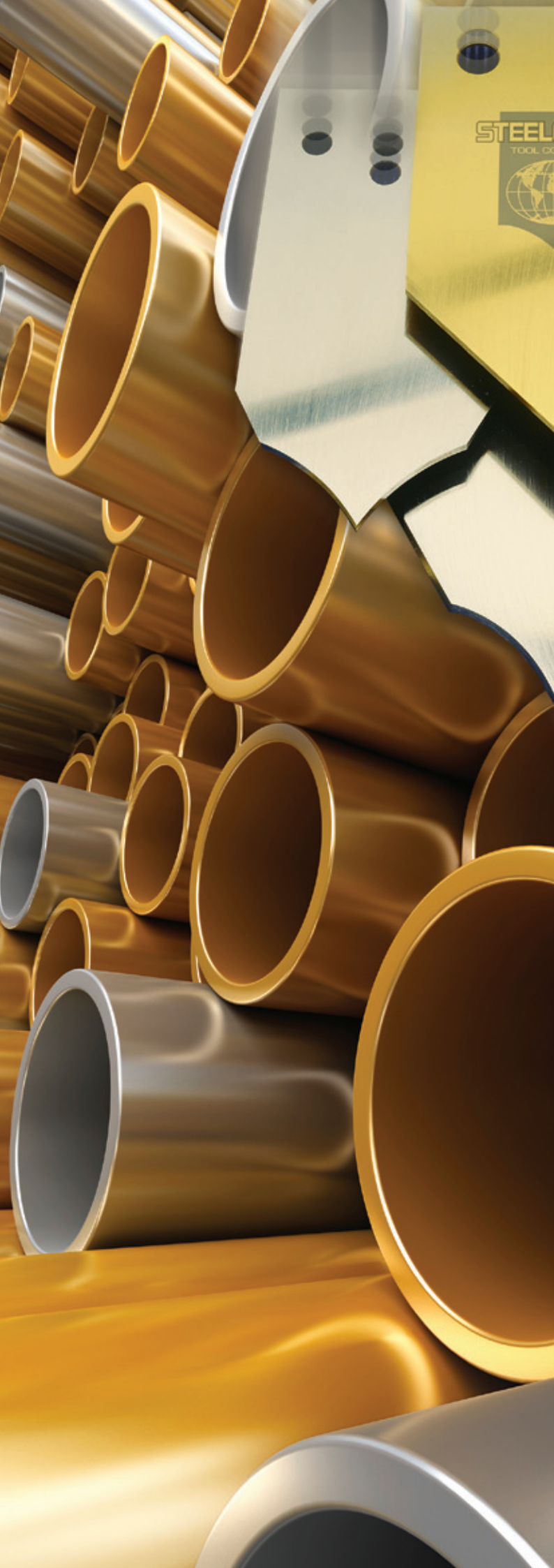
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