

INDUSTRIAL PROCESS NEWS

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IPN

New Clarico MD delivers warning on manufacturing recruitment

Manufacturing recruitment specialists Clarico are advising businesses to adopt digital recruitment techniques or risk never hiring top talent again.

Russell Metcalf, who took over as managing director at the start of January, has fired the warning after overseeing an overhaul of Clarico's strategy as it continues to expand its influence and impact in global manufacturing recruitment. Metcalf has been instrumental in reshaping the business. It has adopted digital technology recruitment techniques and focusses on securing talent for management and executive roles for manufacturing companies.

He said: "This has been a rapid and successful journey with Clarico. We've got the best innovation and tech that's out there and got the best people to deliver it, which is why we're in a position to support global businesses.

"We have delivered for companies in Sweden, Holland and the Czech Republic and have

projects coming up Bahrain, Oman, France, Italy and Belgium.

"We have adapted our techniques to deliver for businesses because they are not in a position to do so. If they don't adopt new practices they are missing out on the best talent available, which results in a poor hiring strategy. That is ineffective and costly and so business must change.

"What we have implemented already is delivering results and with the support of the Clarico team, we are continuing to establish beneficial partnerships in manufacturing recruitment."

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ABLE are pleased to announce that we are Magnetrol's new partner for exclusive distribution and support in the UK & Ireland. Magnetrol's name is highly respected in the Oil & Gas and process industries with a product portfolio that offers an extensive range of innovative level & flow information.

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Vision Engineering designs the first ultra-high definition digital stereoscopic 3D-view microscope



Vision Engineering has launched the Deep Reality Viewer (DRV-Z1) microscope. Designed at its Woking HQ, the DRV-Z1 enables the user to view high definition 3D images under magnification without using a flat screen, or requiring operators to wear goggles or specialist glasses. By linking multiple DRV systems via wired or wireless technologies, users can share and manipulate 3D images of components, parts or products in real time.

According to the company, the DRV-Z1 is set to transform supply network collaboration in manufacturing and quality, design and rapid prototyping and even in the healthcare and medical sectors. The ability to simultaneously share and discuss full 3D images of critical parts, repairs or design enhancements without any delay offers Tangible benefits. In terms of transfer of vital information and quality of view, colleagues across multi-site organisations, suppliers and their customers and designers and manufacturing engineers can use the DRV's real time connectivity to significantly accelerate and improve both product design and client response.

Using Vision Engineering's globally patented TriTeQ3 digital 3D display technology, the DRV-Z1 combines improved ergonomics with real time transfer of 3D product images for rapid and informed decision-making. DRV-Z1 systems are designed to address the important quality control and production requirements in sectors including electronics, aerospace, automotive and medical industries.

Mark Curtis, managing director, Vision Engineering commented: "This breakthrough technology sets a new industry standard, offering users an incredible 3D viewing experience, without the need for glasses or headsets. The ability to share high definition images with other users anywhere in the world presents a huge opportunity to improve standards across key industries such as healthcare, manufacturing and the automotive sector.

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DEHN Surge Protection.
Changes to UK wiring regulations

DEHN SPD's are fully compliant with the requirements of BS7671 18th Edition.

Paragraph 443.4 of the 18th edition states "Protection against transient overvoltages shall be provided where the consequences caused by overvoltage:-"

- A) results in serious injury to, or loss of, human life, or;
- B) results in interruption of public services and/or damage to cultural heritage, or;
- C) results in interruption of commercial or industrial activity, or;
- D) affects a large number of co-locate individuals.

If any of the above categories A-D are applicable then SPD's must be installed, otherwise carry out a risk assessment (BS7671 443.5).

DEHN SPD's.

Choosing SPD's from DEHN will ensure compliance with the requirements of BS7671 18th Edition, BSEN62305 and BSEN61643-11.

For more information on these important changes and details of their surge protection range, please, contact: DEHN (UK) Ltd or visit: www.dehn.co.uk

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Tel: 01484 859111, Fax: 01484 859222
Email: info@dehn.co.uk

Connect digital to physical by, fit, click, snap = fasten

Within this issue of Industrial Process News we have selected ANDBARB as our Joining and Fastening Specialist Company of the Month.

ANDBARB is a company that has designed a completely unique patented connector created for joining and fastening manufactured components together with one action. "I established ANDBARB in 2014 after the patent was issued, to prepare a proof of concept and to start developing and marketing a range of Fastening Devices," said John Anderson, Managing Director.

Realising its potential, John saw the gap in the market and developed an instant fastening and connecting device using modern techniques, CAD, 3D printing and networking resources. "ANDBARB is a method for rapidly, even automatically, assembling components securely with guaranteed quality at an economic price, competitive with traditional fasteners," John said.



ANDBARB is an economic solution for securely fastening components together and is applicable for all manufacturing sectors. In terms of its range, there are four ANDBARB models, ranging from Fixed, to Instantly Detachable. "Fixed ANDBARBs are designed to remain connected permanently for structural purposes," John expanded, "Keyed ANDBARBs are intended for controlled dismantling, for repairable, or replaceable components. Detachable are for items to be undone instantly for instance wearables like shoes."

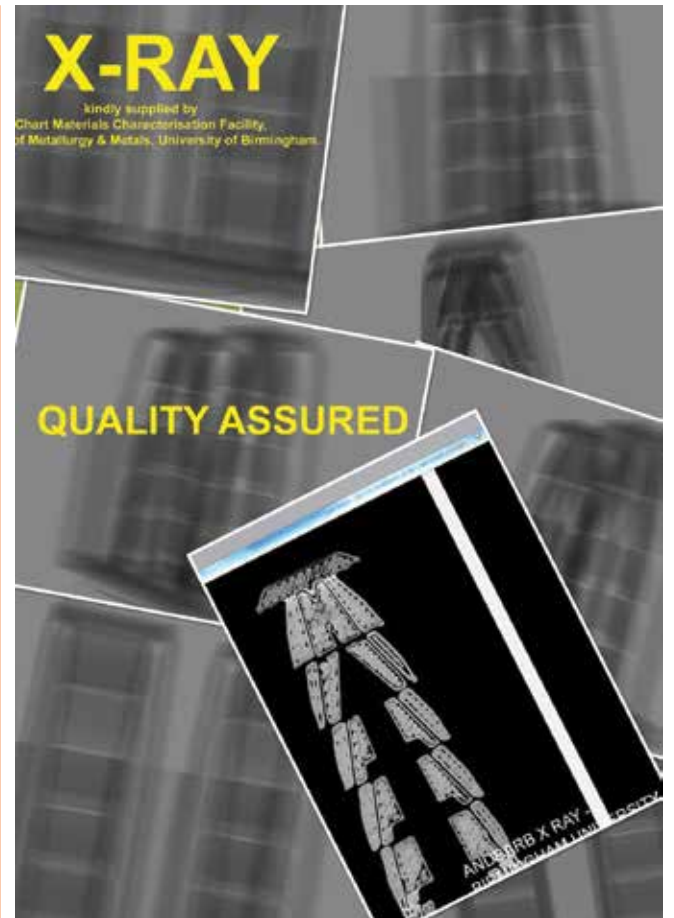
The company's key focus is to provide an instant standardized fastening system that unifies the supply network: Customers, Designers, Manufacturers, Assemblers, and Communities. Providing an adaptable and diverse solution, ANDBARB can be offered in metal, plastic, or as a combination of these and is available in a range of



sizes suitable for any application. ANDBARB has been independently audited and X-Rayed by Chart Materials Characterisation Facility, School of Metallurgy & Metals and the University of Birmingham, UK.

ANDBARB is biomimicry inspired and works by two parts engaging, like a crocodile jaw. The inner part fits into the outer, enabling interlocking barbs to grip and fasten. The design is calculated using evolutionary engineering to increase economy, functionality, security, productivity, connectivity, safety, quality, and profit.

One of the best features of ANDBARB is its extreme ease of use, John explained, "Just fit, click, snap and fasten. It's suitable for all skill levels with low amounts of training giving assured quality." ANDBARB has been designed to be a World Wide Web (WWW) based Design,



Manufacturing, Assembly and Distribution Network (DMADN). Using a unique algorithm that computes the size and shape required of the connectors, the information is then communicated using the WWW to create a computer aided design (CAD) of the two ANDBARB connectors.

This information is then communicated back to (DMADN) for the manufacturing process and the connectors are integrated into components over the WWW so the sites can be separate and remote.

"It initially offers a unique digital solution to fastening components – where there are no competitors," John elaborated, "We initially focused on the digital sectors by 3D printing. Now we can fasten traditional physical components or a combination of both."

With no current competitors, ANDBARB dominates its growing niche market, "ANDBARB dominates its sector that began to exist in 2015, because of technical advances and is steadily growing," John continued, "We have divided ANDBARB products into the eight traditional market segments focusing on innovation, premium quality and multi-branding. Relatively large resources have been used in researching, developing and patenting the product. We are currently focusing on furniture, construction, vehicles and distribution sectors."

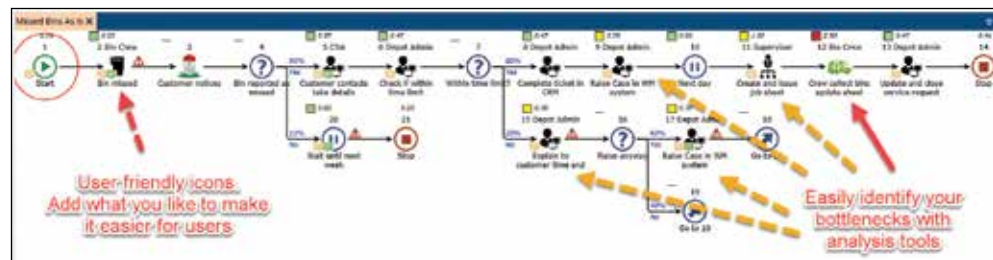
Continuous development is of the utmost importance to ANDBARB and the company maintains a strong stance on constantly looking at new ways of improving its products and increasing both its range and market presence. "We are looking for ANDBARB to be involved in the future of manufacture which is customized, decentralized, individualized," John continued, "We are examining how ANDBARB can assist automation by reducing the number of axis needed to fasten objects. We require additional resources to achieve our technical and marketing ambitions to serve our potential community. We are also investigating providing 'Block chain' encryption for secure distribution."

Indeed, with a growing dominating presence, ANDBARB is at the forefront of innovative fastening and is leading the way in producing a diverse, reliable and environmentally efficient solution for fastening and joining. "We are committed to environmental care," John delivered, "In addition, we aim to develop STEM skills for all ages by providing a digital platform for networking, communications, design, and edutainment."

For any further information, please contact via the details below.

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Get 2020 Process Vision



Within this issue of Industrial Process News we have selected We Are Lean And Agile as the recipient of our Business Process Improvement Company of the Year Award, for its market leading software and training which aids the continuous improvement of its customers' processes and workflow.

Situated in Torquay in the South West of England, We Are Lean And Agile has gained unprecedented growth since its inception and has a nationwide customer base, helping businesses in a vast array of industry sectors.

We Are Lean And Agile provides the best process mapping and modelling software to assist company's improve their business. "It's all about improving processes; every workplace needs to do this to succeed, thrive and deliver growth," explained Andrew Sandford, Director. "We're equipping people with the tools to establish sustainable ongoing capabilities to deliver their own improvement programmes, so they don't have to source external resources."

The company has been a partner and added value reseller for Engage Process, a software company based in the Netherlands, for the last four years, raising awareness and offering training for their innovative business process mapping software, ENGAGE™. "This software makes it easier for companies to understand cost, improvements and see the benefits of change. It allows collaboration on processes and enables them to see an end-to-end

improvement cycle," explained Andrew. "We focus on delivering this software, before training customers on how to use and get the best out of it to improve their processes."

Providing users with a full solution for improving their processes, ENGAGE™'s core benefits is its ability to capture processes and enable the user to analyse their processes and focus on their strategic drivers. "The primary benefit is that it offers a way to better and faster capture and understand processes, which can then be shared with stakeholders," Andrew



continued, "It features user-friendly icons, and the times are embedded into the processes to form a fully costed process model, where a business has captured improvement ideas in the workshop. All of this helps to design new and better processes."

"You can also collaborate in the platform itself, reducing the number of emails to be searched by offering a single source of data, allowing you to build and share processes in one place. As would be expected, this results in huge time savings; a Business Analyst can save around 30–40% of their time by using ENGAGE™."

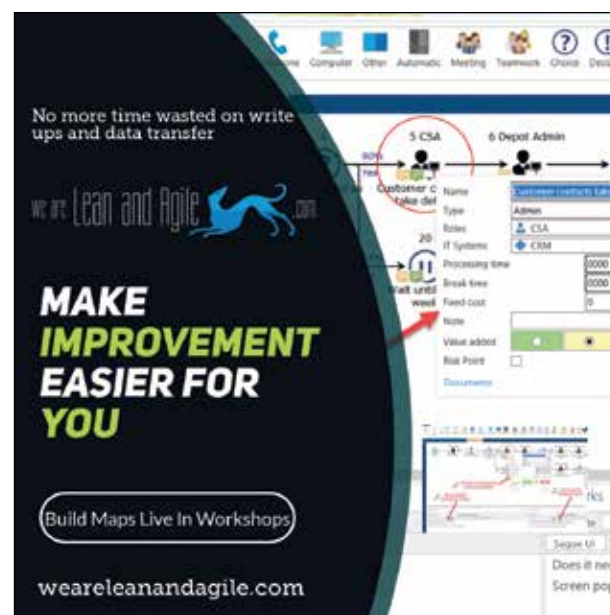
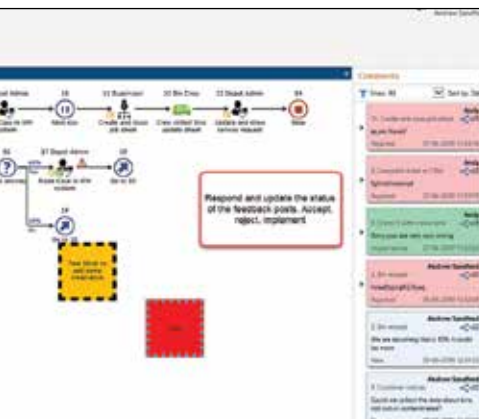
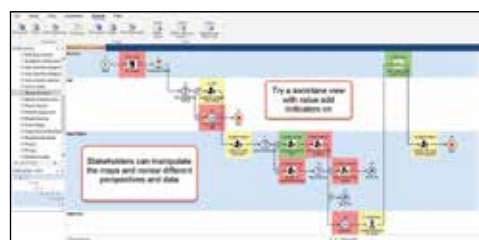
Being extremely agile, ENGAGE™ is diverse and applicable to a wide variety of sectors, We Are Lean And Agile first started by focusing on the local government and implementing the software through those market sectors. "We have now penetrated that market with around 10% of local authorities now using the software," Andrew expanded, "Our key plans are to keep working hard with governments, privet and health sectors as we want to reach new



markets and sectors. As the software is an improvement tool; it is not sector specific. We want to work in a more visible way and expose the product to new markets."

In terms of recent developments for the company, We Are Lean And Agile has seen many advancements within the last year, as Andrew explains, "The last 12 months have been fantastic! We've gained lots of growth in terms of new customers and also growth in terms of our existing customers, gaining more benefits from our software. As we introduced the software only a couple of years ago, our customer base has been organically growing and we've now been able to implement our software into enterprises which is a great opportunity to use the software to its full potential."

We Are Lean And Agile has seen impressive growth within the last 12 months and is continuing their approach to reach more market sectors and showcase the software's capabilities to new sectors, Andrew told us that, "One of our main focuses currently is getting more enterprise users to embed the software into their organisations. The benefit's for a large enterprise



to use the software goes through the roof! The software helps them to look at their processes and implement a continuous improvement culture."

Dedicated to continuously improving upon their services, ENGAGE™ is constantly developing and has recently added a new module; The Teamboard. "The enhancements in the software are 50% driven from our users wishes, which get delivered across three releases a year," Andrew said.

The Teamboard is a new module that provides users with a platform to manage their projects organise continuous improvement and stay in control of their audits. The Teamboard provides Kanban board style functionality and enables the user to attach activity to particular process maps.

A new announcement for the company, We Are Lean And Agile has selected to award an organisation for their improvement processes, Andrew told us that, "We have chosen to award Edinburgh Council with our Improvement Team of the Year Award for their continuous improvement and utilisation of our software."

After speaking with Andrew, we asked him how the company feels about receiving our Company of the Year Award, he stated that the company feels, "Amazing! It was a really nice surprise for the start of the year, to be recognised by an organisation such as yourselves is great and has really put a smile on my face." Andrew expressed, "As for the company, we feel really happy and humbled. It's brilliant for the company and we cannot thank you enough."

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Solutions driven engineering from QA Weld Tech



to cover a wide range of applications involving the use of specialist steels and high performance alloys," said Andrew Dean, Business Development Manager.

QA Weld Tech also has a 'clean condition' shop for the fabrication of stainless and Duplex pipework and produces a range of spools for incorporation into subsea equipment and process skids. Offering a full turnkey service, the company provides advice on material selection, weld procedure development, welding and fabrication, in-house CNC machining, pressure testing, and coating. These products are then sealed, ready for dispatch to assembly plants across the world.

Boasting 40 years of experience working with specialist materials, QA Weld Tech has a sound understanding of how these materials will react when welded, enabling the company to achieve high dimensional tolerances. This also aids it in meeting the demanding



Industrial Process News is proud to announce that QA Weld Tech has been selected as our Integrated Welding and Engineering Company of the Month, for its outstanding range of bespoke solutions which are helping to solve complex industry challenges across the world.

Established 40 years ago by the current Managing Director, Charles Tighe, as a specialist welding resource for the Teesside manufacturing industry, QA Weld Tech specialises in the welding and fabrication of dimensionally critical components for severe service applications. "We develop in house weld procedures

requirements of the manufacturers of products that will be subject to extremes of temperature and pressure in environments where access for maintenance or repair would be difficult.



"We're headed by a European welding engineer and have over 650 welding procedures available. We are always investing in R+D for continuous product and process development, and we are backed by a CNC machine shop for components which are dimensionally critical. It's all about offering a full, turnkey solution for our customers," said Andrew.

One of QA Weld Tech's specific services is weld overlay using Alloy 625, a corrosion resistant alloy. Using computer controlled weld cladding rigs, the company accurately overlays the areas of parts that will be subject to corrosion and wear, extending their



service life. With a strong foundation of experience and expertise on which to build, QA Weld Tech is always investing in its plant and facilities. Recently, the company introduced new CNC machinery, a bespoke pressure testing facility that can perform hydrostatic pressure testing up to 1500 bar (22,500 psi), and a fixed Co-ordinate Measuring Machine to inspect dimensionally critical components.

Moving forward, after recently receiving Fit4Nuclear accreditation, QA Weld Tech is looking to expand further into the nuclear industry. "We felt that the quality and safety standards required for the Fit4Nuclear accreditation were a good fit for the company, and there are opportunities in both existing and new nuclear operations in the country, so this is a great development for us as we look to the future."

QA Weld Tech attends multiple events each year, including the biannual SPE Offshore Europe in Aberdeen, the biggest Oil & Gas show outside Houston, as well as a range of smaller trade shows for the supply chain.

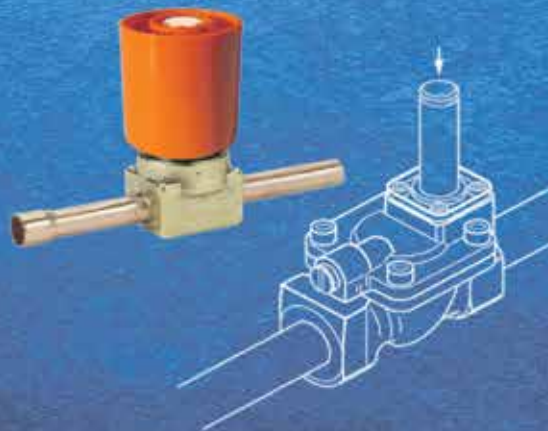
If you would like to find out more information on everything QA Weld Tech has to offer, head to the website or get in touch using the contact details below.

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Pipe Handling Spreader improves lifting efficiency and safety in oil and pipe industries

Industrial Process News is proud to announce that RAM Spreaders has been selected as our Handling Solutions Company of the Month.

Established in 1972 by Founder Mr. Robert A Mills, the company's ancestral roots date back to 1876 with Ed Mills & Sons, a blacksmith company in Liverpool, England. The Mills family ran the business with success, and during the 1970s, further diversified its business interests into container handling equipment.

With a head office in Singapore, RAM Spreaders also has main offices in the UK and Germany, with a state of the art manufacturing facility in China. Here, RAM Spreaders manufactures and supplies container handling equipment for ports and terminals, containerised bulk handling and grabs for the mining industry, and pipe handling equipment for the oil and gas industry.

There is no doubt that RAM Spreaders has an extensive history, ensuring its products and services are well-informed and of the highest quality. "We have a long history in providing lifting equipment for the port industry," said Cameron Hay. "Our experience and family roots have taught us to look after our customers like our own family, which is why we listen to their



needs and reflect on them when developing our innovative products.

"We are able to manufacture and produce robust and reliable products that will improve operational efficiency and maintain a safe environment. Our latest innovation, the Pipe Handling Spreader, is a testament to that statement; it is designed to help ports and manufacturers in the oil and gas industry handle coated and non-coated steel pipes. The product design achieves the aim of adapting to the different pipe geometries, improving lifting efficiency and safety while protecting the pipe integrity."



The RAM 6000 Telescopic Pipe Handling Spreader is designed for use with ship cranes, mobile harbour cranes or other overhead cranes, tackling the manual process of handling pipes, which can be a dangerous and slow task. It can handle a vast range of pipe lengths, thanks to its four telescopic beams with end manipulators that move along a longitudinal axis. Lateral adjustments and removal of the central end beams allow the crane operator to lift a wide variety of pipe diameters, and mechanical sensing assemblies ensure safe handling of pipes, with LED indicators signalling the crane operator once the pipes are

securely clamped and ready for hoisting.

Indeed, it is clear that RAM Spreaders' motto, 'performance through innovation', is integrated into every aspect of the company. "We are the sum of our collective experience, vision and passion for the handling industry," said Cameron. "As pioneers of advanced technology, we deliver robust and reliable spreaders that perform."



Following a merger with a German Grab manufacturer in 2015, under a joint venture arrangement through PEINER SMAG Lifting Technologies GmbH, the group became a world leading lifting accessories supplier,



providing a comprehensive range of lighting and handling equipment for ports, terminals, the mining industry and the oil and gas industry. This merger has produced a global market leader in both the bulk cargo and container handling industries. The group's business includes lifting equipment and accessories for container terminals, bulk ports, bulk cargo vessels, waste to energy incineration plants, scrap metal yards, steel mills, marine dredging and mining businesses, where it is able to offer a full spectrum of bulk cargo and container lifting solutions to port operators and crane manufacturers worldwide.

Looking forward, RAM Spreaders will be working on raising awareness of its Telescopic Pipe Handling Spreader in the oil and pipe industries, and there are full specifications and a product brochure available on the company's website.

If you would like to find out more information on everything RAM Spreaders has to offer, head to the website or get in touch using the contact details below.

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Business Products & Services News

Intellectual property specialists

Patent Seekers is a leading intellectual property research firm which was first established in 2005 by Dean Parry and Timothy Parry. Maintaining a selection of search teams within their offices based in both the UK and North America, the company's highly skilled searchers have expansive knowledge and have received a minimum of degree standard within their field of expertise, enabling them to provide an unrivalled research service and solution for its clients.

Covering a wide variety of technologies, the company's in-house teams of patent analysts cover physics, engineering, biotechnology and chemical subject matters. Patent Seekers provides



an all-encompassing service and is able to provide a variety of services including design, trade mark, technical literature and general internet searches.

Founders Dean and Timothy have also developed the PatWorld

database. The PatWorld database is a global patent database comprised of in-depth knowledge from a team of specialist patent analysts and programmers. The database is the perfect tool to meet the patent search requirements for: patent attorneys, companies, universities and individuals. Designed in an accessible format, the database is adaptable and user friendly for all search abilities enabling the database to be effortlessly used by everyone – not just professional searchers.

For any further information, please see the details featured below:

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Redline Group Release Contractor Guide to Off-Payroll (IR35) Compliance

In the summer of 2019 Redline released an update to its guide Reform to Off-Payroll Compliance in the Private Sector following the initial summary of responses from HM Revenue & Customs (HMRC) in light of concerns raised by professional bodies about the proposed tax reform and draft legislation for IR35 reform in the private sector.

The plans make medium and large companies responsible for



determining the tax status of the contractors they engage from 6th April 2020.

Off the back of this draft legislation outlining HMRC's specific intentions, Redline has now released its complimentary Contractors Guide to Off-Payroll (IR35) in the Private Sector.

Understanding what legislative changes mean for a Contractor

This free guide is designed to help navigate Contractors through the minefield of IR35 and the often misunderstood tax rules which, if administered incorrectly, can carry large financial penalties. The guide helps them understand where they stand with the changes and what best practices they should maintain to keep their businesses compliant.

What is in the guide?

Broken down into easily digestible sections, the guide is a no-nonsense, no-jargon, go-to document to understand the changes shortly coming into effect.

The guide covers the following:

- What does IR35 mean for Contractors – are you 'inside' or 'outside'?
- How is IR35 status to be determined?
- HMRC 'CEST' status checker tool.
- Top tips and frequently asked questions.

To view and download the guide for free, simply visit www.redlinegroup.com/ir35-hub or if you have any questions which are not covered in the guide, please email ir35@redlinegroup.com.



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Deep-Hole drilling automation is more than part load/unload

Automation inside deep-hole drilling machines can be more valuable than part handling outside of them.

For deep-hole drilling, part-handling might be the most visible automation element, but it's not necessarily the most impactful. Often, it's internal process automation that yields the most significant results even with a manually loaded drilling machine.

When it comes to automating deep-hole

drilling, there are challenges unique to the process itself. These include fixturing complexities — where maintaining alignment requires elements such as guide bushings and tool supports not present in a conventional lathe or milling machine — and part attributes such as length and weight.

Long parts mean a long drilling cycle time, and maintaining production rates often requires multi-spindle, deep-hole drilling systems. Unfortunately, stopping a two- or four-spindle

machine means two or four spindles sit idle until the parts are loaded and unloaded. So, in these instances, the more parts in the machine at one time, the more automation can actually inhibit cycle time while the machine is running.

Solving this problem in multi-spindle machines requires internal automation to achieve the objectives of lean manufacturing and one-piece flow. In-machine loaders singulate processes so that even within a small four-piece batch you maintain one-piece flow. The operator or



automation device puts in a part and takes a part out, and the machine does a bit of manoeuvring inside to sequence those four parts in such a way as to minimize spindle downtime while maintaining upstream and downstream processes for one-piece flow. For instance, parts could be loaded onto a smart conveyor, indexed, and lifted into chucks for the drilling cycle before robotic unloading on the out-feed side so that there are no bottlenecks to a steady production flow.

Tool life management is another form of internal automation. Getting feedback to the machine enables the deep-hole drilling process to adapt or halt, if necessary, before tools and parts are damaged.

Tool life management is built into a machine's control, and the machine senses torque thrust and coolant. Chip condition is usually the first indicator of wear, which would otherwise require an operator present to detect, so the machine actually monitors the process and can predict tools starting to wear and identify when they need to be changed. A tool life management system also can count distances drilled and the number of cycles, then prompt a tool change at the appropriate time.



That kind of in-machine automation smooths the path for external automation. As the process builds, highly standardized options for robot-ready machines such as an automatic door, workpiece-present sensors and programmable workpiece fixturing makes it easier to add a robot at a later date. These robot-ready machines also create efficiencies before they're fully automated. Even with manual loading, the automatic doors and programmable clamping make the process more efficient.

In UNISIG's experience, an embedded reamer tool changer enables manufacturers to manage significant throughput increases, even with an operator. With this technology, operators can maintain the pace of production loading the machine, while eliminating the task of inserting reaming tools for each cycle. This allows the operator to redirect efforts towards tasks such as additional quality checks and off-machine setups.

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Another spectacular year for SPE Offshore Europe

SPE Offshore Europe is one of the world's most anticipated exhibitions and conferences among the offshore industry, and the last show, which took place from 3-6th September 2019, saw thousands upon thousands in attendance.

With over 36,000+ visitors, the exhibition presents the industry with the perfect opportunity to market their services, learn about the latest developments in the industry, get caught up on market trends, and network with customers, peers, distributors, suppliers, and much more.

Taking place in Aberdeen, Scotland, the show attracts an international audience from the UK, America, France, Dubai, South Korea, and much more. With exhibitions from Oil and Gas Operators to Health and Safety Specialists to Facilities, Construction, Drilling, and even Government bodies, there was a wealth of information and technical expertise for everyone to benefit from.

SPE is already gearing up for its 2021 show, taking place from 7-10th September, and is set to bring in yet thousands more visitors, exhibitors and media attention.



If you would like to find out more information about SPE Offshore Europe, and why you should attend, then be sure to visit the website.

This is our third pick of the best exhibitors from this year's show, listed here in alphabetical order: Abtech, Digital Edge Subsea, Maersk Training, Marine Travel, Sauer Compressors UK and TYROLIT. Further details can be found on this page and the next page.

Contact
www.offshore-europe.co.uk

Sauer Compressors gained valuable contacts at Offshore Aberdeen 2019

The 2014 downturn in the Oil & Gas industry meant that our global business focus had been pushed to our other key markets over the last few years, but we felt we came back to the exhibition at the right time for us to justify the total cost of attending.

We had the opportunity to meet some key customers in Aberdeen whilst also developing new connections, who may not have been aware of our expertise and range of Sauer oil lubricated & Haug oil free compressors.

During the show, we ascertained multiple enquiries and were able to discuss various solutions with new customers which lead to us developing new market contacts.

We are pleased to report, that as a result of Sauer exhibiting at Offshore Europe 2019 we received a number of active enquiries and subsequent orders, from contacts we potentially may not have met otherwise.

Sauer can offer Marine Class certified & ATEX certificated Air & Gas compressors up to 500 bar, with oil free & oil lubricated solutions available for certain types of gases.

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Flexible Busbar Enclosure for Zone 1 Hazardous Areas

Abtech has launched a high current enclosure that can carry up to 3kA and certified for use in areas in areas where potentially explosive gasses or dust are present.

The SX Busbar is the latest addition to Abtech range of enclosures for high current applications. Gareth Bruce, Marketing Manager for explains the concept behind the design "Our customers have been asking us for an enclosure that could accommodate both a wide variety of cable configurations and to allow the cable layout to be reconfigured if needed. The cable used for high current is often inflexible with restricted bending radii, so the design has to provide flexibility without bending the cables." He continues "as such, we developed the SX with a series of tiered busbars that allow unrestricted access and flexibility for installation".

This busbar arrangement is housed within Abtech field-proven SX stainless steel enclosure. It is suitable for high current (3000 Amps), medium voltage (up to 5kV) installations. "Due to the many possible combinations of busbar in terms of size and quantity and combined with different cable types, an almost infinite number of configurations are achievable" explains Bruce. "However, to provide a product that can be certified, understood



and marketed we needed to rationalise". The SX Busbar, therefore, can accommodate up to five conductors per phase, plus neutral with an optional earth bar facility. All versions are available in a bottom or top entry only configuration. The maximum full load current.

The SX range is fully ATEX and IECEx compliant for use in Zone 1 and Zone 21 hazardous areas.

For more information and to download a datasheet, please visit: www.abtech.co.uk

X3² – Bringing well control training to your doorstep

Mobile phone technology has accelerated over the past two decades, and so too has the means and methods of educating crews, be they turbine technicians, mariners, production engineers or drillers.

The original simulator's projector would fill a family suitcase. Today however, an entire control room, with two drilling positions, an instructor station, along with emergency response capabilities, can be transported to anywhere on earth in two just protective cases and as normal luggage. The new X3 simulator is drilling training in a box. It reverses the established pattern of crews travelling to a centre with subsequently huge savings when an instructor brings the courses to them.

Each X3 is designed for a single operative. Maersk Training has taken two X3's and merged them to expand their educational potential. They have also packed in the hardware for their own RESCUE™ system – a screen-based method of tracking events on board. In an emergency situation the computer program allows response teams to have an accurate overview and therefore provides a vehicle for clear, decisive



action. This means that in addition to individual sessions, full team-based exercises can be conducted.

Through cloud technology, the whole learning process can be expanded to keep track of individual or team performances, enabling an accurate picture of a crew's capability and potential.

Contact
www.maersktraining.com

Time and tide wait for no man



Having recently exhibited for the first time at SPE Offshore Europe 2019, at the brand-new P&J Live venue in Aberdeen, Marine Travel was delighted to discuss its dedicated travel service for the maritime sector.

Our team were kept busy all week chatting about the many ways that Marine Travel can streamline your travel requirements.

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Bearing mounting with induction heating 4.0 technology

It is well known that bearings fail for many different reasons. One such reason is improper mounting. If the right techniques and tools are not used, bearing life is jeopardized. It is estimated that approximately 30 percent of bearing failure is caused by poor fitting.

This article deals with hot-mounting. A bearing or other part is heated prior to mounting, causing the inner ring to expand. Then the bearing is mounted on the shaft. As it cools down it shrinks and tightens around the shaft.

Methods used for heating can be ovens, oil baths, hot plates, or open flames with blowtorches. The risks are many: local overheating causes material stress, loss of original lubrication, dirt contamination and the risk of personal injury due to slippery bearings (oil), or open flames.

Bearing manufacturers recommend induction heating as the optimum heating method. Modern heaters offer many advantages, including time or temperature control. They are energy efficient, reduce heating times, and they also improve safety and working conditions on-site. The clean, environmentally friendly work processes are all good reasons to switch from

traditional heating methods to induction heating. The new generation of Betex induction heaters have even more to offer. The low and medium frequency induction heaters of the Smart series enable full control over the heating process. The heaters have an easy to use touchscreen with many heating options and they are fitted with a Delta-T control system. Two temperature sensors measure the inside and the outside temperature of the bearing or other part and adjust the heating according to the selected variable settings. In this way, the maximum permitted temperature difference between two points can never be exceeded. Heaters have a USB port for logging purposes.



Mid-frequency heaters solve difficult assembly or disassembly jobs for medium-sized and large bearings. The heaters are easy to use and fast when necessary for disassembly, or controlled and slower for stress-free assembly of valuable bearings. Fixed or flexible inductors can be used depending on the application. Fixed inductors are used for serial work. Flexible inductors are multifunctional and are used for large bearings or irregularly shaped parts, with all the advantages of a safe, stress-free, damage-free, clean and energy-efficient heating process.

Significant cost savings can be achieved with induction



heater technology. Sometimes savings are enormous: heating times are reduced dramatically; parts are reused that would otherwise be scrapped; a production plant reduced overhaul time from ten to eight days. But when it comes to bearing mounting, perhaps the most important advantage is the improved quality of the assembly process.

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www.begaspecialtools.com/en

SPE Offshore Europe Review Top 40

Leading manufacturer of grinding, cutting, drilling and dressing tools

Founded in 1919, TYROLIT is one of the world's leading manufacturers of grinding, cutting, drilling and dressing tools as well as machines for the construction industry.

A family-owned company, TYROLIT is a member of the dynamic Swarovski Group, and has over 4,500 employees at 29 production locations across 11 countries and five continents.

TYROLIT manufactures 80,000 different products across its three divisions: Metal Industries, Construction and Quartz

Industries. These are offered to its global customer base through 37 sales companies and additional distributors in 65 countries.

These products grind, cut and drill almost any material of any hardness, using advanced technology created using the company's leading industry expertise.

Indeed, TYROLIT's team of experts is known throughout the world for mastering an extensive range of skills, meaning the company is a highly sought-after partner in the development of new and innovative solutions.

Without a doubt, TYROLIT always strives to impress, with a goal to cultivate long-lasting relationships with its customers. This service is underpinned by continuous optimisation of its products, and TYROLIT is constantly adapting its processes to address the evolving demands of the market.

If you would like to find out more information, head to the website or get in touch using the contact details below.

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Alan Why appointed Bunting's UK Sales Manager

Bunting has promoted Alan Why (pictured) to the position of UK Sales Manager overseeing all external sales activity. Alan has successfully developed magnet-related business for Bunting over a seven-year period. The responsibilities of his new role cover a wider product range including magnets, magnetic separators and metal detectors.



Bunting is one of the world's leading designers and manufacturers of magnetic separators, metal detectors, magnets, magnetic assemblies and magnetising equipment. The Bunting European manufacturing facilities are in Redditch, just outside Birmingham, and Berkhamsted, both in the United Kingdom.

Since joining Bunting in 2013, Alan has successfully grown business for magnet-related products in the automotive, mechanical, and electrical industries. Alan achieved particular success in introducing an expanded range of magnetic catches to manufacturers of kitchen cabinets.

Alan's engineering career began as a radio-frequency (RF) electronics design engineer and evolved into the role of Sales & Marketing Director of a small electronics company serving the defence electronics market. Throughout, Alan has specialised in engineered solutions. As a field-based Sales Manager, he believes in developing close relationships with customers. Only then does he believe that it is possible to fully appreciate and understand a specific magnetic application and, subsequently, recommend the optimum magnet solution in terms of material, shape and size.

As the UK Sales Manager, Alan's responsibilities cover an expanded industrial and geographical area. As well as continuing to support customers with magnet-related requirements, Alan will also be working on projects in the recycling, quarrying, and process industries.

Alan Why assumes his new position in January 2020.

For further information, please contact us on press@buntingeurope.com or visit our website www.mastermagnets.com

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To view our full stock range, please visit the below website. Alternatively, you can discuss your specific requirements with a member of the Technical Sales Team by calling the number below.

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Stella-Meta is a long-standing, highly skilled supplier of servicing and spares for Stellar and Meta filtration systems incorporating Metafilters. These are pressure pre-coat filters with candle elements designed to provide rigid and robust support for the filter media. They comprise a core of specialist stainless steel Meta candles including the highly tolerated Metarings.

These candles have no moving parts, making them particularly hardy. With their outstanding reliability and long operational life, many installations still provide a valuable filtration service today but the expertise needed for their maintenance has disappeared.

Stella-Meta's knowledge, experience and comprehensive spares inventory ensure the optimum performance of

these filters for many years to come. Correct cleaning removes residue that can affect filter bed creation and the quality of filter output. Any problems of Metaring orientation, candle tensioning, damaged candles or use of an incorrect pump flow rate can be resolved.

Other filter issues addressed by Stella-Meta include over-use of filter media; turbulence in formation of the filter bed; damaged, poorly maintained or missing candles; and use of incorrect replacement parts. Onsite training can be provided.

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Corrosion protection for chimney at bio-methane plant

CORROSERVE

Leeds based corrosion protection and engineering services specialist- Corroserve was contracted to protect the internal surfaces of a newly manufactured mild steel chimney prior to it being installed at a bio-methane plant on Teesside. The 1.2m diameter chimney was in three sections – 30m in all.

The plant processes the sludge remaining after sewage treatment to produce bio-methane, which is an alternative source of energy to fossil fuels. Bio-methane production offers a number of

other environmental benefits including stopping the release of methane and other harmful gases produced by organic matter decomposing into the atmosphere.

In service the chimney will be exposed to a range of waste gases including hydrogen sulphide, so protecting it by lining with a specialist coating system would extend its service life and reduce future maintenance down time.

Completed at its Leeds factory, Corroserve first abrasive blast cleaned all the internal surfaces in accordance with ISO8501- 1 Sa2½, to remove heavy mill scale and provide the required surface profile

for coating. This was followed by the application of multiple coats of Polyglass VEF – spray applied using Agmec internal pipe spraying equipment to achieve a DFT of 1250µm.

The contract was completed quickly and efficiently and the chimney installed on site shortly thereafter. The client is satisfied that the new lining will protect it from corrosion attack for a considerable time and remains confident that they have a long-term cost-effective solution, particularly when compared with the cost of repairing or replacing the chimney in the future.

www.corroserve.com

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Lorien unveils new senior management team



Lorien Engineering Solutions has unveiled a new-look senior management team following a series of promotions and a key appointment. Lorien, which specialises in capital projects for food, brewing, drinks, life sciences, safety compliance and sustainability, enjoyed a successful 2019 with more than 15 new client wins. Now the company has invested in the future by assembling a senior management team of six that will support the company's directors and drive further growth.

Martin Lythgoe has joined the Burton-upon-Trent-based business as Head of Buildings and Civil Engineering. He acts as building design lead for projects and coordinates the building design team within Lorien's UK centre operating in Europe and beyond.

Chris Bullock has been promoted to Head of Engineering. Chris has over 20 years' experience in project delivery, specialising in packaging engineering and project management. He has led multi-disciplined projects for clients in the brewing, soft drinks and food sectors.

Having joined Lorien in 2016 as Health and Safety Manager, Elliot Follows has been promoted to Head of Compliance, a newly created role in which he will lead in the fast-growing area of safety compliance, health and safety, welfare conformance and quality assurance. The team is completed by the experienced trio of Matthew Hilderley, Steve Brown and Phil Colquhoun.

As Head of Sales and Marketing, Matthew drives business development activities and oversees key FMCG accounts throughout the UK, Europe, and North America.

Head of Projects Phil Colquhoun is a chartered engineer who has worked with Lorien for more than 20 years. He has successfully managed many of Lorien's large, multi-disciplined projects in this time.

Head of Strategic Account Stephen Brown is responsible for the management of major multi-disciplined engineering projects in the food and beverage industry for a major snack foods client.

www.lorienengineering.com
www.gpstrategies.com

HOW RELIABLE IS YOUR PROCESS AIR SOLUTION REALLY?

LET'S TALK

Onder Karaca, Internal Sales Engineer
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EXPECT PERFORMANCE

Productiv's rapid response brings Cyclopic centreless wheel drive system to Advanced Engineering 2019

A novel centreless wheel drive system with multiple potential applications was showcased at the Advanced Engineering event in Birmingham 30–31 October, assisted by Coventry-based venture engineering specialist Productiv.

Productiv has created a working prototype of Cyclopic's revolutionary patented Wheel system, which combines drive, steering, braking and operating height adjustment in a single unit.

The ground-breaking prototype was showcased at the entrance of the National Exhibition Centre and was well received by thousands of visitors the show attracted.

Each Wheel is fitted with its own separate drive system, giving complete 360-degree manoeuvrability – allowing for easy parallel parking, and so creating a ready solution for urban zone parking. In combination with road reading technology, the Wheel also delivers a unique vehicle levelling capability with no need for additional fluid power systems for levelling.

In just 13 weeks, Productiv created a complete working aluminium prototype for the show, from the Cyclopic team's own prototype, as well as optimising the electronics and control software.



Alan Rallings, Director of Cyclopic, commented, "Uniquely combining operating vehicle height, drive, steering and braking in a single unit, the Wheel has multiple applications, not least in electric vehicles and other mobility solutions. The Productiv team did an exceptional job in creating a completely operational model with full control system, in such a short period, once we knew we were given the opportunity to showcase the Wheel at the Advanced Engineering event. We anticipate strong interest from many sectors given the flexibility and capability of the Wheel."

Matt Hardwick of Productiv added, "This was a genuine challenge which showcases the unique capabilities of Productiv in having design, prototyping and systems engineering all under one roof. The Wheel is a highly novel design which is versatile enough to be used in both on-road applications, such as delivery vehicles, and other applications such as caravans/trailers."

Cyclopic Ltd would welcome any interest from any company or individual that would like to invest/sponsor the next stage of prototyping the Wheel.

www.productiv.co.uk
www.cyclopic.co.uk

ESAB's Dual Shield® Prime low-hydrogen FCAW wires

ESAB's Dual Shield® Prime is a family of seamless, low-hydrogen (H4) non-copper-coated flux cored wires that combat moisture absorption in humid environments, delivering impact toughness down to -60°C. Tests performed in accordance with AWS standards show an initial level of 2.17 ml of diffusible hydrogen per 100g of deposited weld metal; after one week of exposure with a 90% RH at 30°C, Dual Shield Prime demonstrated just 2.35 ml of diffusible hydrogen.

Dual Shield Prime wires are especially suited for high-tensile steels and applications that require low temperature impact toughness, notably in the ship, offshore, oil/gas and processing industries. All carry ABS approval, with additional approval by product, including BV approval, for the 81Ni1 H4 grades.

Operator Friendly

Users at naval shipyards and construction engineering companies report that Dual Shield Prime produces a very soft arc with almost spatter-free welds and easy slag removal, an important consideration in multi-pass applications. With a

spray-type transfer, operators can easily manipulate and control the weld puddle, enjoy good wetting with tie-in at the toes of the weld and achieve good penetration.



No Copper Coating

Dual Shield Prime is a non-copper-coated wire. As a result, there are no copper flakes to contaminate wire feeders, liners, torches and contact tips with copper particles. The result is trouble free feeding, high process stability, reduced consumption of wear parts and superior welding properties.

Dual Shield Prime Products

ESAB offers Dual Shield Prime in four different compositions and diameters of 1.2 to 1.6 mm

For more information, contact Cheron Robinson
T +44 (0)1992 702442
cheron.robinson@esab.co.uk

NEW Technical Solutions Team

Through a combination of excellent customer service and support, together with technical ability and applications expertise, Thorite prides themselves on creating more added value for their customers. However, the continuing challenge is to ensure that these key strengths are invested in and built upon.

Alan Donkersley, Thorite's Sales Director explains "Thorite has always been regarded as technical experts in pneumatics, compressed air, fluid handling, and process control because our people, either through our Sales & Service Centres or through our field sales team visiting customers, are trained to a very high level and have many years of experience. This is why.....we're different."

Alan continues "Being technically competent is a vital component for

our future growth. Customers are increasingly looking beyond product price to find complete solutions which improve their productivity and reduce their overall costs. We have now decided to take our support for customers to a whole new level by creating our new Technical Solutions Team. This team probably comprises the most expertise within our industry, who can advise on correct product selection, through to specifying and installing complete system solutions."

Thorite's Technical Solutions Department combines Technical Support and System Solutions into one multi-skilled department, headed-up by Technical Solutions Manager Mike Perry.



(L-R) Ross Town, Paul Derrick, Mik Rhodes and Mike Perry

For customers requiring technical help or systems advice, a single call to 0800 170 0689 or an email to technical@thorite.co.uk will be dealt with by one of our specialists who hold specific product information and can give customers expert advice on the latest products from over 70 world-class suppliers.

Dry mixes of brake & friction materials in Ploughshare® Mixer

Even 70 years after the Ploughshare® Mixer was patented by Lödige, there are still new applications found for the fluid bed principle that was revolutionary at that time. At the EuroBrake 2020 Lödige Process Technology will show a design model of a mixer specifically designed for brake and friction material applications.



Lödige has been supplying mixing systems for the friction material industry over the past 40 years. In order to meet the high safety standards of braking systems in passenger cars and other vehicles, these mixes face very specific requirements: brake and friction material mixes notably consist of a multitude of powdery, finely crystalline and fibrous components having extremely different bulk densities. The mixer has to therefore not only mix these components in a homogeneous manner, but also to disperse the fibrous components to ensure the reinforcement of the finished products. This can only be achieved by high performance mixers designed in a specific way.

Modern aramid fibres – which are an essential component of these mixes – are introduced into the mixer in the form of a so-called pulp. A high fibrillation degree is reached through the mechanical processing of the fibres by means of a special mixing technology. As a result: an optimum embedding of powdery components and a high retention of filler materials in which mix segregation can be excluded.

Lödige Process Technology at the EuroBrake 2020
(2. – 4. June 2020, International Convention Centre Barcelona, Spain): Stand 61

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Leading expert in marking and traceability solutions



Industrial Process News is proud to announce that SIC Marking has been chosen as our Marking Equipment Company of the Month, for its outstanding range of dotpeen, scribe and laser markers.

Established in France 25 years ago, SIC Marking has since grown exponentially with nine subsidiaries across the world, including an office in the UK which was established by Paul Sidwell in 2017.

Based in Warwick, SIC Marking is a sales, service and support outlet for the innovative permanent marking and automated identification solutions manufactured at the company's headquarters in France. These machines are excellent solutions for identification and traceability in a vast range of industries, mainly automotive but also including aerospace, rail, oil & gas, medical and asset management, to name a few.

"Our equipment is highly reliable, robust and made to the highest standards, and is a lot quieter than other machines available," explained Paul Sidwell, General Manager.



"Our key USP though is our service. We always work on the principle of getting it right first time. We can service and return a product within 48 hours, often within 24 hours. We know we need to be on the ball to make things happen for our customers and ensure they get what they need quickly, so we pride ourselves on our efficient and comprehensive services."

Complete part traceability is essential for compliance with ISO quality standards, a matter which is pertinent to a vast range of industries. This level of traceability begins with part marking, and choosing laser marking technology allows manufacturers to automate marking operations and ensure a high level of control.

"Our laser marking machines are fantastic products; they are reliable, high standard and produce an excellent quality mark. As soon as a customer receives one, they realise and appreciate how good the machines are."

SIC Marking's laser engraving technology consists of a high frequency beam generated from a laser source, which is then amplified and directed

towards a part to be marked via a series of rotating mirrors. Fibre laser marking is widely recognised as one of the most effective marking technologies, offering numerous solutions for any industry. SIC Marking has chosen the Ytterbium-doped fibre laser for its powerful reliability and low operating costs, making it ideal for company's looking for a cost-effective solution for their traceability needs.

Having only been established in the UK since 2017, SIC Marking is seeing excellent levels of expansion, with 50% growth each year so far. "Our team has also grown, we've



employed a new Field Service Engineer who brings a wealth of experience to the company, and we are constantly diversifying with new products. The global company invests 10% into R+D every year, so there is always something in development."

SIC Marking maintains a busy calendar of events each year, including the Manufacturing Supply Chain Conference and Exhibition, Southern Manufacturing Show, MACH, the Engineering Expo, and the Advanced Engineering show.

"Shows are really important for us; because we have such a diverse customer base, we can get lots of interest and leads during the event and increase our brand's awareness across the country."

"Raising our profile is a big thing for us at the moment. Lots of people have our products but don't know who we are, as we were only established in the UK a few years ago. This is why we're trying to find our existing customers who might not know we exist, as well as expanding our customer base with new clients."

If you would like to find out more information on everything



SIC Marking has to offer, head to the website or get in touch using the contact details below.

T 01926 830372
salesuk@sic-marking.com
www.sic-marking.co.uk



Handling, Storage & Logistics News

New automated pallet debanders raise safety levels at Britvic

Britvic uploads almost 100,000 aluminium cans from pallets onto each of three new canning lines per hour at the company's upgraded Rugby production site.

Now the process of removing each pallet's plastic retaining straps has been fully automated using vertical debanders manufactured by L.B. Foster Automation & Materials Handling.

Britvic is the largest supplier of branded still soft drinks, and the number two supplier of branded carbonated soft drinks, in Great Britain.

Following £100m investment at Rugby, L.B. Foster's new debanders are integrated into Britvic's three new can lines, which are amongst the fastest in Europe.

Mick Haswell is Maintenance Manager – Canning at Britvic Soft Drinks Limited in Rugby. He says: "Britvic's vision is to be the most dynamic, creative and trusted soft drinks company in the world, which is why we are investing in technologies that enable us to operate more safely, effectively and efficiently."

"That goes hand-in-hand with our commitment to providing high quality working conditions and environment for our operatives. L.B. Foster's vertical debanders tick all the boxes when it comes to speed, accuracy and safety, with the added bonus of reducing our environmental footprint with its clever, in-built recycling hopper for plastic retaining straps. These are shredded and the resultant granules sent for recycling."

Paul Parkinson, Head of Sales & Marketing at L.B. Foster Automation & Materials Handling, says: "Britvic is one of the world's most recognisable brands. The products that it makes are household names. So we are very proud that the company has invested in our high-performance range of debanders as part of its drive towards increased production efficiencies."

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PJR UK cements status as a leading partner for quality certification

Industrial Process News is proud to announce that Perry Johnson Registrations UK has been chosen to receive our Audit and Certification Company of the Year award.

Since becoming established in Milton Keynes in January 2019, Perry Johnson Registrations UK has seen an excellent start as a certification body in the United Kingdom. Building relationships through networking, hosting training sessions and attending a number of regional tradeshows and conferences, the fledgling division of the United States-headquartered company has truly begun to come into its own.



While the UK division of PJR has only just begun, the Perry Johnson name is well-known in the North American market. Founded in 1994 by Perry L. Johnson, Perry Johnson Registrars, Inc. was among the first to offer ISO certification in the United States. Founder Perry Johnson was inspired to bring ISO standards into the US market after having attended an industry event in the UK in the 1980s, as he saw incredible potential for helping businesses succeed. Johnson has written numerous manuals on quality management and is also the author of the best-selling ISO 9000: Meeting the International Standards. Since 1998, PJR has expanded internationally, including offices in Japan, India, Italy, Thailand, Mexico, China, and now the UK. Perry Johnson is also founder of Perry Johnson, Inc., an internationally known training provider of lead auditor classes for ISO 9001 and other quality management systems that was established in 1985.

Critical to the success of PJR UK has been the hard work of its primary team members – Mike Stasik, Stephen Whatford, and Ben Watt. Together, this team has already found a great foothold in an industry that most consider to



Ben Watt & Stephen Whatford with Founder Perry Johnson (center)

be well-established and not entirely available to newcomers. "[We've done] far better than expected making an indent in a mature market," stated Ben Watt when asked for comment, and an indent they've made; PJR UK has successfully built a strong client base and solid reputation in just 12 months. The majority of business thus far has been in the areas of ISO 9001:2015 (Quality Management Systems), ISO 14001:2015 (Environmental Management Systems), ISO 45001:2018 (Occupational Health and Safety Management Systems), sustainability standards such as R2 (Responsible Recycling), and ISO 27001 (Information Security Management Systems). With their eyes on future development and growth, the team has recently expanded PJR's offerings with the addition of two new programs.



PJR is excited to be able to offer the Virtual Pre-assessment program and ISO 37001 accredited certification, the global standard for Anti-Bribery Management systems. A pre-assessment could in many ways be considered a "dress rehearsal" in preparation for a company's initial audit. Historically, these pre-assessments have been done onsite; PJR now has the capability to conduct them virtually. Choosing the virtual option avoids all travel costs (i.e., flights, rental cars, hotels, gas, food, parking, and more) traditionally associated with bringing an Auditor onsite.



The relatively new ISO 37001 Anti-Bribery Management System (ABMS) standard can be an important step for companies demonstrating commitment to business ethics and fairness in all dealings. With the increasingly complex and ever-changing world of business and commerce, the need for trust and honesty has never been more paramount. While only just released in 2018, ISO 37001 is sure to become a powerful influence in the international business community as a signal of trustworthy practices.



The UK Sales Team (L-R): Michael Stasik, Stephen Whatford and Ben Watt.

At PJR UK, the focus is on customer satisfaction from start to finish – Whatford and Watt pride themselves on being available at any and all times for customers to reach out for input via phone or email. This ease of access for customer questions and concerns is one of the PJR UK team's big selling points, in addition to their thorough knowledge and understanding of all the standards offered. PJR's affiliation with parent company Perry Johnson Registrars, Inc. grants them the ability to offer a wide range

of free training and webinars on a huge range of topics; customers find this treasure trove of information invaluable. Newly-added to the Perry Johnson training library is a free online ISO 9001:2015 Clause-by-Clause course, www.pjr.com/training/iso-90012015-clause-by-clause-course, taught by one of the industry experts based out of PJR's United States headquarters, Joseph Krolkowski.

In addition to training and other free resources, PJR offers many other advantages, including:

- No mandatory preliminary site visit
- No penalty for changing schedules (with reasonable notice)
- Dedicated point of contact for arranging audit dates
- No hidden costs
- No application fee
- No overtime charges
- One complimentary certification plaque per client
- Client press releases written at no additional charge
- Sensitive and responsive to the needs of businesses of all sizes – small, medium or large
- No markup on auditor's travel expenses
- Three complimentary registration certificates

With as much success as the PJR UK team has seen in just one year, it should come as no surprise to find that there are big plans in the works for the future. Not only would the team like to continue building upon the brand in the UK, but there is already talk about expanding



Stephen Whatford with conference drawing winner 2019

the business into other parts of Europe. "We are delighted that our hard work is being recognized within the industry," Whatford commented.

To learn more about the programs and services offered by Perry Johnson Registrations UK, please visit pjregistrars.uk, or to request a quote: www.pjregistrars.uk/contact-us/free-quotation and/or call +44 (0) 1908 440045 to speak with a team member.



PERRY JOHNSON REGISTRATIONS LTD.

5 smart ways to increase engine efficiency on AD plants

According to James Thompson, managing director of Gen-C, an independent CHP parts and service provider, the following five smart upgrades can transform any gas engine into a more efficient and profitable piece of kit

The UK's anaerobic digestion (AD) industry has experienced rapid growth over the past 10 years, with a total of 648 plants now in operation. Despite the recent increase in biomethane facilities, most of the biogas produced from AD is used to generate electricity and heat, making the combined heat and power (CHP) engines that convert biogas into usable energy a vital piece of equipment. But with many of these engines now at least five years old, what is the impact when they fail or underperform? And is there any alternative to either costly engine replacements or expensive service contracts?

1) Install an open-access control panel

Many service providers use a 'closed' control panel as a means to coerce the owner into a restrictive service contract. This means that you are potentially looking at your engine being down for days whenever there's a problem while you wait for the service provider to despatch an engineer to your site; often at an additional cost to you.

By upgrading to an intelligent, open access control panel, an operator can remotely take control of their own engine via their laptop, phone or tablet; instantly assess how their engine is performing; control their engine's running parameters, adjusting

them to match the biogas composition; and restart their engine themselves within seconds – without even needing to be on site.

2) Fit a flexible fuel mixer

If an engine runs too lean it can backfire, resulting in exhaust damage, vibrations and instability, and causing parts to wear out more quickly. If it runs too rich, then too much fuel will be used, the engine can overheat, and there is a risk of parts burning out.

A flexible and fast-acting mixer enables an engine to handle variations in gas volumes and composition. This is especially important for biogas plants treating food waste, as this is a constantly changing product. At Gen-C, our air/gas mixers comprise a range of flow bodies to suit every feedstock type, based on a plant's individual gas composition. If the composition alters significantly, we can change the flow body as required, ensuring the perfect fuel mix every time.

3) Use an ignition controller with pulse technology

If your engine shudders during the ignition phase, replacing the controller with one using pulse technology will deliver more reliable ignition and prolong the life of your equipment. We supply Motortech ignition controllers, the only type that uses pulse technology.

This creates thousands of tiny pulses, the intensity and duration of which can be programmed

according to the plant's demands, and which will remain the same throughout the lifetime of the ignition controller.

4) Switch to a smart knocking control system

A 'knocking' sound usually signals that the gas is igniting too early. A sophisticated, intelligent knocking control system can detect this and automatically alter the ignition timing point. If knocking still occurs, it will then reduce the load of the engine or even shut it down, preventing catastrophic engine failure.

5) Use proactive oil monitoring

The oil is the life-blood of the engine, and many of the impurities from the bio-gas being burnt in the engine end up here. Oil quality can be altered by a number of factors – metal particles from worn out engine parts, ingress of water or coolant from failing seals etc, as well as the general breaking down over time.

Whilst many operators rely on routine and often costly oil analysis, this is only a snapshot of oil condition, and fitting a sensor that gives a live 24/7 indication of oil quality is probably the best investment an operator can make in improving engine efficiency.



Take pre-emptive action

Every day that an AD plant isn't generating electricity is a day it's losing money, so don't wait for your engine to fail before taking action.

By scheduling an engine upgrade to coincide with any planned maintenance shutdown, operators can benefit from increased engine availability, more reliable performance, longer-lasting components and greater electrical output.

Contact
T 01709 718 002
info@gen-c.co.uk
www.gen-c.co.uk

Septic tank operators urged to make regulation checks

New regulations for discharging wastewater from septic tanks have now come into force – and householders and businesses that fall foul of them risk heavy financial penalties or even criminal prosecution.

Since January 1st 2020, the regulations, called General Binding Rules: Small Sewage Discharge to the Ground, have not allowed wastewater from a standard septic tank to be discharged directly into water courses.

<https://www.gov.uk/guidance/general-binding-rules-small-sewage-discharge-to-the-ground>

The regulation change applies to many thousands of properties with off-line wastewater systems. Many

owners and managers of these properties will have already taken the necessary steps to ensure they are in line with the regulations.

However, there are likely to be a significant number who still need to take urgent action or may still be unsure as to whether their septic tank systems meet the regulations so are still lawful.

What is a septic tank?

A septic tank is a simple gravity system for holding and processing wastewater. Wastewater enters the tank, where solids are allowed to fall to the bottom of the tank where they form a sludge. A pipe located above this sludge layer then allows the remaining

water to leave the tank to be discharged or further treated. Lanes has created a Best Practice Guide for septic tanks which can be viewed here.

<https://www.lanesfordrains.co.uk/wp-content/uploads/2019/02/Septic-Tank-Best-Practice-WEB.pdf>

Lanes Group partners with key water treatment plant and septic tank manufacturers so we can select and install the right system and best water treatment solution for each of our customers.

If you have concerns about a septic tank, call Lanes free-of-charge on 0800 526 488. Or email sales@lanesgroup.co.uk.



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Centrifuge Engineering Service Ltd has been in business for many years, working in the Petro-Chemical, Pharmaceutical, Fine Chemicals, Food & Beverage, and Waste-Water Treatment Industries, supplying new and fully refurbished equipment for various processes, also breakdown repairs, planned maintenance contracts, consultation, upgrades & installations.

We recently completed a full refurbishment of these Ferrum Centrifuges above for a regular customer of ours, including new drive system, hydraulics, pneumatics, process feed controller, critical dimension inspection, replacement bearing, seals and suspension, pickle passivation of all stainless steel parts, and 2 pack epoxy painting following grit blasting.

We have various centrifuges in all sizes and configuration ready for refurbishing following discussions with our customers to find out exactly what they require the process to do, and more important to do it safely.

CES Ltd supply all types of Filtration & Separation equipment for all types of industries, including Basket, Decanter, and Disc Stack Centrifuges, Nutsche Pressure Filters, Filter Presses, DAF systems and Filter Bag Equipment.

Please call +44 (0)1484 548200, or visit our website www.cesluk.co.uk

The Filter Press Co. Ltd



The Filter Press Co. Ltd has been in business for quite a few years, working in the Effluent & Waste-Water Treatment, Food & Beverage, Petro-Chemical, Pharmaceutical, Fine Chemicals Industries, supplying new and fully refurbished equipment for various processes, also breakdown repairs, planned maintenance contracts, consultation, upgrades & installations.

We recently completed a full 'turn-key' project of a 1,000 ltr Solids Capacity Chamber Filter Press, as pictured above. This included the initial consultation, sample testing, particle analysis, to determine the requirements, automatic control system, hydraulics, process pumps, tank level monitoring, and installation.

We supply filtration systems in all sizes and configuration, including Chamber, Plate & Frame, Membrane, Dissolved Air Flootation 'DAF' Systems, and 316 St/ St 'Leak-free' Filter Presses for the Wine & Beverage, Chemical and Pharma Industries.

We can also supply all types of Filtration & Separation equipment for all types of industries, including Basket, Decanter, and Disc Stack Centrifuges, Nutsche Pressure Filters, Filter Presses, DAF systems and Filter Bag Equipment.

Please call +44 (0)1484 548200, or visit our website www.filterpress.eu

Recycled paper roll for void fill



Hazel 4D is fighting plastic pollution with the Boxer, a simple, eco-friendly recycled paper roll it has added to its void fill packaging range.

The company says: "The Boxer is an affordable, sustainable alternative to using bubble wrap to cushion products in transit and prevent damages. It's also much neater than using loose fill. Ideal for use on packing benches, the Boxer comes in a compact, easily transportable cardboard box with handles so you can use it anywhere in your warehouse. The paper roll also comes unboxed if you already have your own dispensing systems in place."

The centre feed design makes it quick and easy for operatives to pull the paper out of the box, tear a strip off, scrunch it and wrap around products. Made of 80gsm recycled paper, it's 100% recyclable.

The Boxer is the latest addition to Hazel 4D's sustainable void fill packaging range that includes Nuevopak recycled paper void fill systems, Locked Air degradable air pillows and Cushionpack machines that allow companies to shred their waste cardboard into protective padding.

www.hazel4d.com

'X-Treme' 4-Way stretch flexible comfort from ENGEL Workwear



Recognised for its comprehensive range of well fitting, stylish and practical workwear, Danish manufacturer ENGEL build further on their reputation in the UK with the introduction of their new 'X-Treme' 4 - Way Stretch' work trousers.

Designed to allow as much flexibility as possible whilst kneeling or bending, the slim-fit trousers feature a 4-way stretch 'breathable', cooling fabric which quickly absorbs and dries light perspiration.

The knee-pad pockets are reinforced with hard wearing Kevlar Teramid and have two options for pad height adjustment; in addition to the many useful pockets for keeping essential tools and accessories immediately to hand, some of which have either Velcro or zip closures, optional hanging tool pockets can be attached to the waist; the trousers also have extra deep hems so that lengths can be increased if required.

Made from 73% nylon, 17% cotton and 10% elastane, the 'Engel X-Treme 4-Way Stretch' work trousers are available in a variety of colour combinations and in all popular sizes.

For more information contact
Gareth Bladen:
M +44 (0)7759 520034
gbl@f-engel.com
www.engel.eu/en



Reece Safety Products outlines the importance of ARC Flash clothing

ARC flash clothing is being increasingly needed due to the rise in ARC flash hazards. An ARC flash – sometimes called a 'flashover' or 'electrical arcing' – occurs when a burst of light and heat is created from an arc fault. ARC flashes can be caused by sparks, equipment failure, dust, corrosion or improper installation. This electrical explosion can cause serious harm to a person within close proximity of an incident if the correct personal protective equipment (PPE) is not worn.

ARC flash clothing is created in accordance with both national and international safety standards, and acts as a last line of defence in protecting the wearer from serious injuries, especially burns, due to the thermal hazards in an ARC flash event. ARC flash clothing includes under base layers, outerwear, switching suit kits, gloves and face protection such as visors and balaclavas. It is important to wear multiple layers of ARC flash PPE for full skin protection and face protection when working with electrical equipment.

To be properly protected from heat and faults that may occur when working with electrical equipment, you can wear ARC flash clothing from Reece Safety to reduce the risk of burns and shocks and always comply with health and safety and risk assessment standards in your workplace.

www.reecesafety.co.uk



Knee and body protection from Redbacks Cushioning

Redbacks Cushioning Limited, developers of the award winning, 'Leaf-Spring' cushioning technology offers a range of products to help protect the knees and body from damage caused by kneeling

The Redbacks Pocket Kneepad, specifically designed to fit work trousers, features a flexible leaf-spring held within a thermoplastic honeycomb matrix which unlike foam or gel ensures a high compression rate and 100% recovery to its original shape. This combination and the inherent 'memory' aspect gives unique controlled weight distribution; the deceleration of pressure protects both the knees and body from potentially damaging impact forces and gives long lasting, anti-fatigue support; traditional foam or gel solutions

create point-pressure which focus the force or energy to a point which is then transmitted back into the knee joint and beyond.

Easy to slide in and curved to fit comfortably around the knee, the water-resistant pads which conform to CE EN14404 Type 2 Level 1 help to protect against possible injury from sharp objects, wick away sweat and provide thermal protection from warm or cold surfaces; they are machine washable at 30°c and 100% recyclable.

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Schmersal is not only a manufacturer of safety components but also a system supplier.

The safety control system PSC1 consists of freely programmable compact safety controllers with I/O extension modules for signal processing of emergency stop switches, guard door switches, light grids and additional mechanical and electronic safety switchgear. Additionally there is the possibility via numerous functions to monitor axis. Using the universal communications interface a connection can be established to all the standard field bus systems.

With its combination of properties, the new safety controller from Schmersal is unparalleled, as the PROTECT PSC1 has unique features that clearly set this control system apart from other solutions on the market.

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Reduce the risk



We need a more precautionary approach to managing welding fume exposures, says Professor John Cherrie.

WELDING FUME is more dangerous than we have previously realised, and it doesn't matter what type of metal is being welded or the process being used. It is now unacceptable to weld indoors without the provision of effective engineering controls, such as local exhaust ventilation, and in many situations, it may also be necessary to wear respiratory protective equipment to protect workers from residual fume. In this article we explain the scientific basis for these recommendations and set out practical advice for employers and welders.

Welding is undertaken in many industries. In the UK there are about 200,000 welders, with a bit less than half working as professional welders and the rest undertaking some welding in their job. It's a hazardous work, and welders are exposed to metal fume and hazardous gases in the air, ultraviolet (UV) radiation from the arc, noise and other hazards. Exposure to welding fume depends on the composition of the metal being joined, the welding process, and where the work is undertaken, but levels can be above 10 mg/m³ in the absence of effective controls. There has been concern in the scientific community that long-term exposure to welding fumes could cause lung cancer, particularly from welding stainless steel because it contains hexavalent chromium, which is a known carcinogenic metal. For this reason, the Health and Safety Executive (HSE) previously recommended strict levels of control when welding stainless steel.

Two years ago, the International Agency for Research on Cancer (IARC), a part of the World Health Organisation, carefully reviewed the scientific and medical evidence on the health effects of welding and concluded that welding fumes are carcinogenic to humans. They identified an increased risk of lung cancer and possibly kidney cancer. Their conclusions on carcinogenicity were based on the human epidemiological evidence and the available animal toxicity data, although the human evidence was particularly persuasive. There are four large carefully conducted epidemiological studies that were most informative about the risks for lung cancer. These studies show there is no evidence that the metal content or the type of welding process makes a difference to the lung cancer risk. In fact, one of the epidemiological studies showed similar risks for iron oxide fume, regardless of the process generating the fume. The lung cancer risks were apparent for welders who had cumulative exposure over a 45-year working life equivalent to average levels between 0.2 and 1.1 mg/m³.

The Workplace Health Expert Committee (WHEC) reviewed the evidence for the HSE and this has resulted in a further tightening of the controls required for all welding fume under the Control of Substances Hazardous to Health (COSHH) Regulations. In particular, it is expected that for:

- Indoor welding tasks, effective engineering controls, e.g. local exhaust ventilation, will be used, and workers may also be required to wear respiratory protective equipment (RPE) for any residual fume exposure; and for
- Outdoor welding tasks, respiratory protective equipment (RPE) will be worn.

Suitable exposure controls must always be in place; HSE considers that given the seriousness of the potential health effects associated with exposure to welding fume, it doesn't matter whether the work lasts for only a short time. No distinction should be made for the control measures required while welding stainless steel or welding other metals, although there is still a requirement to comply with the specific Workplace Exposure Limits for the metals in the fume, e.g. manganese (0.2 mg/m³ for inhalable aerosol and 0.05 mg/m³ for respirable aerosol, both over 8-hours), nickel (0.1 mg/m³ as inhalable aerosol over 8-hours) or hexavalent chromium (0.05 mg/m³ as inhalable aerosol over 8-hours).

The IOM agrees that no distinctions should be made

between different base metals being welded when selecting appropriate control measures and we endorse the advice from HSE. We further advise our clients that whenever it's practicable they should use portable local ventilation for outdoor welding. IOM occupational hygienists now advise our customers to ensure that metal fume exposure amongst their workers are as low as is technically possible, and certainly less than 1 mg/m³ while welding is taking place, i.e. not averaged over the workday as is often the case for exposure assessments. When is it likely that exposure will be above 1 mg/m³ we recommend the welder and any other workers exposed to such conditions should wear suitable RPE.

The question is how to decide when the use of respirators is appropriate? It's well known that fume exposure levels during welding vary depending on the welding process, the size of the workroom, the amount of general ventilation and the way the welder works. Welding fume rises rapidly from the arc to form a plume, which is generally visible. If the welders head is in this plume then



their exposure will be very high; local ventilation control can help minimise this, but welders should be instructed to avoid the weld plume. If the welder sometimes has their head in the plume because of the circumstances of the work, then they must wear suitable RPE. We recommend that work in small (<300 m³) or poorly ventilated spaces



(<0.3 air change per hour) should always be carried out with respiratory protection. Remember welding in confined spaces requires special considerations to ensure it is safe because of the possibility of oxygen depletion.

Ventilation systems

Most common arc welding process, such as gas metal arc welding (sometime known as MIG or MAG welding) and shielded metal arc welding (SMAW, also known as manual metal arc welding) can give rise to welding fume concentrations between 3 and 30 mg/m³ in an open workshop without local ventilation controls. We know that the effectiveness of ventilation systems is highly variable and depends on both the design and the way that the system is used by the welder. In general, you might expect a reduction in exposure of about 60 to 90% with local ventilation, although mobile fume extraction systems will be more variable in performance and less effective, maybe between 20 – 80% effective. Therefore, unless you are confident that you have an effective ventilation system, we would also advise wearing a respirator in larger workshops (>300 m³).

Gas Tungsten Arc Welding (GTAW sometimes described as TIG welding) will generally have low inhalable aerosol exposures, and low hexavalent chromium and nickel concentrations when welding stainless steel. For this type of welding we would suggest that it is sufficient to just rely on local exhaust ventilation. However, GTAW welding can generate high levels of ozone gas and so it is important to ensure the ventilation is effective. On tool extraction, where the welding hand piece has its own air extraction system to remove contaminants closer to the point of their production, have been shown to be very effective. Such systems may be better suited or used in addition to stand alone local exhaust ventilation units. On tool extraction has been dismissed by welders in the past, saying it can interfere with welding gas supply, but systems have improved greatly and that is really a myth these days. Other welding or related processes, e.g. gas welding or oxygen arc gouging, will differ in the extent of their exposure and the circumstances where the welding is undertaken will also influence the exposure. In all cases employers have an obligation to complete a suitable and sufficient assessment of the risks to health under the Control of Substances Hazardous to Health Regulations.

There are a number of sources of information that can assist in assessing the level of risk from welding fume exposure and in selecting appropriate local ventilation and respiratory protection. For example, the British Occupational Hygiene Society (BOHS), as part of their Breathe Freely campaign, have an online welding fume assessment tool to help identify appropriate control measures. The Healthy Working Lives initiative in Scotland has produced an online respirator selection tool that guides the user through what can be a rather complex selection process. Both of these tools are freely available and easy to use.

Remember, workers need to be properly trained to understand the risks from welding fume and what steps are needed to ensure they are protected. All engineering controls used in welding need to be suitably maintained and tested at the relevant intervals, and make sure that respirators are managed within a comprehensive RPE programme, including face fit testing. In the end it may be worthwhile getting some professional advice from an experienced occupational hygienist to ensure you have the best solution for your workplace, and BOHS provides a list of consultants with this type of expertise.



Resources

HSE's Safety Alert is available on their website: www.hse.gov.uk/safetybulletins/mild-steel-welding-fume.htm

There is guidance and further information on the HSE welding subsite: www.hse.gov.uk/welding/guidance/index.htm

The British Occupational Hygiene Society (BOHS) provides an online welding fume assessment tool to help identify appropriate control measures: www.breathefreely.org.uk/wst/

...and their Directory of Occupational Hygiene Services can be found on their website www.BOHS.org

HealthyWorkingLives.scot has an RPE selector tool on their website: www.healthyworkinglives.scot/resources/rpe-selector-tool/Pages/default.aspx

Details of IOM's occupational hygiene services can be found at: www.iom-world.org/occupational-hygiene/

Professor John Cherrie is a principal scientist at the Institute of Occupational Medicine.

For more information contact:
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Institute of Occupational Medicine

T 01785 333215
Alison.Parton@iom-world.org
www.iom-world.org

ATEX Approval for TFX-5000 ultrasonic clamp-on Flow meter

Badger has announced new hazardous area certification to ATEX/IECEx Zone 2 for the Dynasonics® TFX-5000 transit time ultrasonic flow meter. The certification covers models measuring DN65 and larger, making the solution ideal for flow measurement in automotive, waste-water, oil and gas and other general industrial applications requiring hazardous zone approvals.

The approval classification is:

- II 3 G Ex ec nC ic IIC T4 Gc
- II 3 D Ex tc IIIC T100 °C Dc

TFX-5000 ultrasonic clamp-on flow and energy meters are a versatile

solution for measuring volumetric flow and heating/cooling rates in clean liquids as well as those with small amounts of suspended solids or aeration, such as surface water or raw sewage. Typical applications include water mains, reclaimed water, lift stations and booster pump stations in water and wastewater or the energy transfer of chilled water (cooling) and glycol/hot water (heating) in HVAC systems as well as produced water in oil and gas applications.

As the newest generation of clamp-on ultrasonic flow and energy meters, the TFX-5000 meter is intended for users seeking an accurate, reliable and affordable transit time metering device. The TFX-5000 is available in a variety of configurations and can be selected with

features suitable to meet particular application requirements.

Users can select up to eight parameters to log, including flow rate and total, signal strength, and alarms with a time/date stamp to an 8 GB microSD™ (Secure Digital) card. It also features helpful diagnostics that take the guesswork out of isolating process or application problems. Users are alerted to out-of-specification flow conditions and can access a history with the most recent alarm, error and event codes.

Contact
www.bellflowsystems.co.uk



LABTEX™

We are now distributing the advanced metering pump range developed by the highly regarded and innovative Heidelberg based company, ProMinent. This exciting new specialism will further enhance our ability to offer solutions for an increasingly wide range of scale-up processes.

The foundation of ProMinent's global success story is high quality products based on decades of engineering expertise, an in-depth understanding of applications and continuous innovation. The modular ProMinent range, integrated into carefully designed solutions, will enable customers in a wide range of industries to achieve maximum safety and efficiency in their production processes.

ProMinent®

We share ProMinent's commitment to environmentally sound, sustainable and cost-effective solutions for metering technology in the pharmaceutical, chemical and manufacturing sectors.

Greg Smith, Managing Director at Labtex, said "ProMinent group's position as a global market leader means a continuous commitment to excellent products and services and an obligation to think and act responsibly. It is a real privilege to be working with such a great company, with an innovative culture and commitment to excellence, very similar to ours. I look forward to the journey ahead."

Contact
T 01484 600200
info@labtex.co.uk

Hydra-Cell® High Horsepower Pumps

Wanner is expanding its range of high horsepower pumps with the introduction of two new High Pressure variants of its Hydra-Cell® T200 multi-diaphragm, packing free, seal-less API674 pump.



The Hydra-Cell T200P has a flow capacity of 280 l/m and a maximum discharge pressure of 276 bar, while the Hydra-Cell T200Q has a maximum pressure rating of 310 bar and a maximum flow capacity of 246 l/m.

As with all Hydra-Cell pumps, these two new models feature a seal-less, packing free API674 design that eliminates leaks, hazards and the expense associated with seals and packing maintenance; lowering the cost of ownership and giving an extensively longer service life than other API674 competitive pumping technologies. With overall efficiencies of 90% the pumps are said to have a lower energy cost than centrifugal pumps and a far lower maintenance parts requirement than traditional plunger pumps.

These Hydra-Cell pumps can also operate with a closed or blocked suction line and run dry indefinitely without damage... conditions that will destroy the majority of other pumps. The unique diaphragm design handles more abrasives with less wear than gear, screw or plunger pumps, reducing maintenance requirements while eliminating unplanned downtime and repair costs.

Designed for use in oil and gas production these new pumps are also proving ideal for chemical and petrochemical process applications & high pressure cleaning systems.

www.hydra-cell.co.uk

Health & Safety News

Miniveyor Air VAF Ventilators & Air Blowers Fume & Dust Extractors

Where fumes, smells or dust occur, the Miniveyor Air VAF fans can move contaminated air out of a confined space or building. They effectively exhaust fumes, ventilate confined spaces, and increase the flow of fresh air.

The Miniveyor Air range are tough! The rugged VAF ventilators easily withstand blows without denting, giving less downtime and greater productivity and come with an industry leading 10 year warranty on the body.

The vane axial fans work on positive and negative airflow and are at home either extracting dust and fumes or blowing clean air into a confined workspace. In fact whatever the industry you work in, from marine, construction, mining, telecoms, fabrication or maintenance services, our VAF series fans will take whatever is thrown at them.



VAF-400 (16")



VAF-300 (12")
Pneumatic



VAF-200 (8")



For more information contact us today

VAF Air Ltd
Tetbury Ind. Estate
Tetbury, United Kingdom
sales@vaf-air.com
+44 (0)330 016 0002
or visit -

www.vaf-air.com



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World leading solutions for the security industry

Industrial Process News is proud to announce that Webeye has been chosen to receive our Security and Safety Company of the Year award. "We're very happy to have received this award," said Trevor Lee, Marketing and Brand Manager. "It is great recognition of all the groundwork we've put in, and shows we're getting more awareness in the industry. We've got a strong vision for the future and this award gives us the gravitas to help put our growth strategy into place."



Established in 2011 by Clive Mason, an ex-police officer, Webeye offers innovative solutions based around CCTV, intruder alarm and visual verification systems that are setting standards across the industry.

With a mission to improve safety and security across the globe, Clive invented webeyeCMS, the only fully cloud-based alarm and monitoring platform on the market. Over the years, he has built a specialist team which is dedicated to offering solutions to security professionals that improve the effectiveness of security, guarding and alarm installation businesses. "Technology is the future of security," said Trevor. "We're helping customers involved specifically in the guarding and construction industry to embrace this revolution."

"It's been a very good 12 months for us," Trevor elaborated. "We've grown 15% on last year,



(L-R): Marketing Director, Trevor Lee, Operations Director, Mike Davies, Finance Director, Tracey Chidlow, Managing Director, Clive Mason, Head of Information Technology, Duncan Weir and Global Sales Director, Mark Wall

and we'll be building on this substantially in the next 12 months. I think this growth is down to a number of reasons, not least of all the combination of Mark Wall, our Global Sales Director, Duncan Weir, Head of IT, and myself – we've helped to drive sales along with our excellent team of sales staff.

"There has been lots of networking and our products are really resonating with customers on an increasing level. Our software is being integrated into more and more systems, including Hikvision, Videofied and Dahua. We're achieving more market penetration as webeyeCMS is working with increasing numbers of products."

Webeye has launched versions 3.1 and 3.2 of its webeyeCMS platform, and now includes integration with the Calipsa False Alarm Reduction Platform. This gives customers instant access to Calipsa's leading false alarm filtering solution, which uses the latest machine learning technology to analyse whether the alarm contains human and/or vehicle movement. This then appears as a verified tick in the Webeye platform. This integration of Calipsa gives Webeye customers a vital extra layer of intelligence to help them make informed decisions, with cost effective and reliable machine learning to help drastically reduce time wasted dealing with false alarms.

The platform also includes a pixelating feature to help with GDPR compliance, and v3.2 boasts an audio challenge feature, so you can speak to an intruder directly and ask them to leave. "We are constantly listening to the market and looking at ways to integrate different things into the platform to address the challenges our customers face."



Indeed, the webeyeCMS platform is one of the company's key differentiators. It increases customer safety and can also check that their security systems are working properly. The platform features patented systems to ensure that alerts get sent through to all stakeholders quickly; the company has invested a lot of work into ensuring this, and the platform will even tell the user who answered the alarm notification and when, so they have an effective audit trail.

webeyeCMS is integrated with a range of different hardware, including brands such as Videofied, Dahua and Hikvision, as well as several of the company's own products such as webeyeFOG & webeyeSOS. webeyeFOG is one of Webeye's most popular products at the

moment, thanks to its ability to fill a large room with dense smoke within seconds, obscuring visibility and forcing intruders to leave. It is an ideal solution to help protect shops, jewellers, banks and warehouses because it reacts quickly to prevent theft but does not leave any lasting residue or stains. With activation via single or double confirmation, the webeyeFOG is available in wired or wireless configurations, and is the only product on the market for this price that effectively stops intruders in their tracks.



"It's a cost-effective solution that provides a quick result," Trevor elaborated. "We've had lots of interest in webeyeFOG, and with the TRx module you can put several modules in to help fill even larger spaces or more rooms with the smoke. For an integrated solution, for example, webeyeFOG works with the award winning AJAX wireless security system. With the AJAX Hub2 along with their new AJAX Motion camera, you can receive the visual verification of an intruder for yourself. This means you can then trigger the relay to set off the webeyeFOG system, and then phone the police to deal with the situation."

This outstanding product portfolio is being continually updated and diversified, and Webeye has a range of wireless products in the pipeline which will be ready to release later this year. This product offering is underpinned by outstanding technical support. "I believe we're one of the only companies to offer technical support until 10:30pm Monday to Friday, so if someone is out late on a construction site and has an issue with their security system, we are available to help. We have a great reputation in the industry and receive lots of loyal customers, which just shows to us we must be doing something right."

Indeed, Webeye's growth over the past year is impressive, and the company looks set to continue these achievements moving forward. It is gaining big traction in South Africa, and the company has plans for further growth in America this coming year.

Certainly, Webeye is cementing itself as a global player in the security technology market, so make sure you head to the website or get in touch using the details below to stay up to date with the company's latest developments. Webeye will also be at The Security Event on 28-30 April at the NEC, Birmingham and IFSEC, 19-21 May 2020 at ExCeL, London, where it will be showcasing its latest features and integrations.

T 0115 714 9990
sales@webeyecms.com
www.webeyecms.com

Enhanced-sensitivity amplifier for industrial metal detectors



EGE has developed a new compact, rugged MDVH amplifier with enhanced sensitivity for its System 3000 industrial metal detector. The completely redesigned amplifier is characterized by higher adjustable sensitivity levels, reduced susceptibility to interference, and a more robust housing with IP67 ingress protection. Featuring automatic self-calibration, the unit works reliably even if the detector coil comes near metal fittings.

Users can adjust the sensitivity of the detector coil as required via a rotary potentiometer on the housing front. The amplifier has a 260 x 160 x 90 mm wide aluminum housing. It is designed for an extended temperature range of -25 °C to +70 °C. EGE's System 3000 is used in conveyor lines for noncontact detection of metal parts that could damage downstream machines or degrade the quality of bulk solids. Thanks to its rugged design, it is suited for outdoor use in harsh and dirty environments.

The size of detected parts varies for different models. The MDVH unit is optimized for medium-sized parts such as nails, nuts, wire, or silverware. MDV series devices are designed to protect machinery by identifying larger metal parts such as excavation bucket teeth or parts of tools and enclosures.

T +49 4346 4158 0
info@ege-elektronik.com
www.ege-elektronik.com

Don't be held back by a part number

With an impressive selection of over 25 industry-leading brands and several new product ranges added to Rhopoint Components' portfolio in 2019, they have taken steps towards serving the ever-growing demand for customised solutions in the electronics industry. Off-the-shelf products are no longer sufficient and using a close-enough part often means a compromise elsewhere.

Rhopoint Components represent carefully selected manufacturers who can satisfy

this market shift, while continuing to serve the industries where the flexibility and high quality have always been important. Whether an unusual package, resistance value, tolerance beyond the datasheet values or specialist terminations, Rhopoint Components offer customisation on the vast majority of their range of passive and active electronic components as well as pressure, temperature and liquid level sensors. Custom components can be surprisingly cost effective – often in line with the standard models, in addition to saving cost elsewhere

in form of saved board space or eliminated need for an additional component.

To see how Rhopoint can help equip your design with the right components, contact their technical sales team or visit their website.

www.rhopointcomponents.com





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The EL-SIE range



Although Lascar Electronics has been manufacturing data loggers for over 25 years, even for the original inventors of the USB data logger the launch of the new EL-SIE range is a major event. The EL-SIE is the first in a new generation of EasyLog products that takes data logging to another level.

Capable of measuring ambient temperature, humidity and pressure, each can store over 1 million readings inside the sleek metal housing. The bright and clear display shows readings and device status at a glance, and the coloured LED indicators and sounder mean the EL-SIE can grab your attention when it needs to. Each logger is supplied with batteries (two standard AAAs), a USB cable and a wall bracket so it's ready to use right away, and one set of batteries will typically last over a year.

The new EL-SIE range: data logging has evolved.

T +44 (0)1794 884567
www.lascarelectronics.com

Data Logging has Evolved



The new EasyLog EL-SIE range takes data logging to the next level.

Measuring ambient temperature, humidity and pressure, EL-SIE stores over 1,000,000 readings inside its sleek metal housing. Advanced new alarm options ensure you'll never miss a critical event. Viewing logged data on PC or Mac is easy, with no need to install software. Integration with EasyLog Cloud allows sharing, analysis and storage of your valuable data. **EL-SIE, data logging has evolved.**

www.lascarelectronics.com



New DIN Rail AC inrush current limiter

Powersolve's new PSICL series is a low-cost peak inrush current limiter designed for capacitive and inductive loads in a variety of applications. These include installations across complex automation systems and machinery as well as isolation transformers or LED lighting applications where they are particularly useful because you can have a large number of LED driver power supplies operating in parallel and all taking high peak currents together on switch on.

The PSICL series is a true current limiter and cuts off all peak currents when starting loads under practically every AC condition. Extreme conditions can occur on AC lines in the event of a break in the supply and when power returns, high current peaks can often cause havoc and will trip

circuit breakers. In decentralised areas, this will often lead to increased maintenance costs as the breakers require re-setting. The PSICL current limiter prevents this happening and can result in reduced cable cross section used & smaller & faster circuit breakers.

The PSICL Series is available in three 230VAC single phase models with continuous operating current rating of 12A, 16A and 25A. Current limiting time is 100-500mS with repeat intervals of 1,000mS.

sales@powersolve.co.uk

<https://powersolve.co.uk/product-category/inrush-current-limiters>



CamdenBoss



CamdenBoss' releases its latest innovative plastic enclosure, the 1500 Series Universal Smart Enclosure. With engineers, installers and end users in mind, this sleek and refined enclosure features two corners at 45° angles, increasing the number of mounting options available and usable external faces.

The unique design allows it to be mounted directly to corners using the well-developed surface mount bracket, even if the walls are misaligned! The flexibility of the multi-purpose plastic enclosure directly targets market demand, bringing a product of ingenuity and premium quality. Moulded in either white, black or grey, the UL94-V0 housing is available with or without vents to suit different applications and industries.

To find out more about the 1500 series enclosure and secure yours today, contact the CamdenBoss sales team on 01638 716101.

DS Smith saves 65% on lighting energy



LED Industrial Lighting Co. Ltd, a leading supplier of energy efficient LED solutions to the industrial and commercial sector, are pleased to receive recognition at the recent Energy Efficiency Awards 2019 for their LED project at DS Smith Clay Cross. DS Smith is a leading provider of corrugated packaging in Europe and a specialist in plastic packaging worldwide. DS Smith has a 75+ year legacy of innovation and process efficiency. With a focus on eco-friendly design and recycling, helping its customers to reduce waste, cost and complexity in their supply chain is a top priority.

The Clay Cross lighting project received the "Highly Commended" award for energy efficiency.

Installation Snapshot

- DS Smith – global paper & packaging company
- European-wide upgrade at 100+ facilities
- Hundreds of fewer fixtures required
- On average 65% energy consumption and cost savings
- On average a 3-year payback
- Dialight fixtures in 90% of European facilities by mid-2019

Since the early days of LED technology, LED Industrial Lighting Co. Ltd have been providing cost-effective, energy efficient LED solutions for clients throughout the UK. Established in 2008, our reputation for providing impartial and professional advice has guided customers through every stage of the lighting upgrade process, including survey, design, quotation and installation. With particular expertise in the heavy industrial and commercial sector, we have delivered energy efficient lighting solutions to companies in the paper industry, warehousing, food & beverage, manufacturing, airports & ports and also the hazardous area environments.

"I would not hesitate to recommend LED Industrial Lighting Co. to those looking for a long-term sustainable solution to their industrial lighting requirements." Martin Mead, Head of Energy Efficiency, DS Smith Plc.

Contact

www.ledindustrialighting.co.uk

New TIB Series DIN Rail mounting AC-DC Power Supplies now available with ATEX and UL HazLoc approvals



Features

- ◆ Input voltage & frequency 85-264VAC, 45-65Hz
- ◆ Single output voltages from 12V to 48V DC
- ◆ Power ratings from 80 Watts to 480 Watts
- ◆ Low standby power
- ◆ High efficiencies of 88-94%
- ◆ Wide operating temperature of -40°C to +70°C
- ◆ Wide output voltage adjustability
- ◆ Peak power capability of 150% nominal output power
- ◆ DC OK signal
- ◆ Full safety approvals including Atex and HazLoc for EX versions
- ◆ 5 year product warranty



www.powersolve.co.uk

Email: sales@powersolve.co.uk

Tel: 44-1635-521858

Inspiration & Innovation embodied the 2019 Engineering Design Show

Last October, the UK's design engineering community gathered for the Engineering Design Show (EDS). With 200+ exhibitors, 25 insightful conference speakers and 30+ practical, show-floor workshop sessions, there was plenty on offer.

Highlights included:

- Dassault Systemes challenged visitors to their stand to design a drone capable of removing the reactive agent from a chemical spill. Using Dassault Systemes solutions to develop the concept, all submitted designs were 3D printed during the show.
- The Institution of Engineering Designers and 3M hosted an Innovation Management Masterclass. They demonstrated how the adoption of a standardised approach can lead to differentiation and how good innovation practice can be so valuable when aligned to the ISO 56002 innovation management standard.
- Perforce discussed Agile becoming more

widespread for managing engineering design projects with new Agile variants being better than Scrum or Kanban at supporting large-scale, often compliance-driven projects.

- The Robotics Innovation Hub provided opportunities to discuss and try the very latest in robotics technology from Comau, X-STK Applied Automation and Motion Impossible.

Both visitors and exhibitors were provided with unrivalled face-to-face networking, all within a dynamic and stimulating environment.

This is our pick of the best exhibitors from the show, listed here in alphabetical order: CeraCon UK, Electric Motors Online, Datalink Electronics Ltd, Globe Electroncis, Hydro Extrusion UK, Noritake itron and Transfer Multisort Elektronik. Further details can be found on this page and the next page.

EDS returns this year (14-15 October) to the Ricoh Arena, Coventry: <http://bit.ly/2TOZ7hj>



Specialists in Electric Motors and Automation

Electric Motors Online provides sales, service, maintenance and mechanical engineering for electric motors and automation. A family run business based in Nuneaton, Warwickshire, Electric Motors Online has gained advanced knowledge with over 30 years working in the electric motor and automation industries.

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Gearboxes and Motors.

With an emphasis on providing top quality service, Electric Motors Online maintains a strong stance on producing a customer focused dedicated service, 24 hours a day, seven days a week, 365 days a year.

For any further information or to view Electric Motors Online extensive range of products and services, please see the details featured below.

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Datalink Electronics Contract Manufacturing & Design Services Electronic & Electro-Mechanical Solutions

Datalink Electronics is an award winning, ISO9001 and ISO13485 accredited, contract electronic product design and manufacturing company. With an extensive track record in a variety of industries from medical devices to oil & gas, transport, and scientific instrumentation, we serve our customers ranging from SMEs to large blue-chip companies.

We provide a flexible and comprehensive service offering, from feasibility study to design, development, prototyping, certification support and full-scale commercial production.

We offer contract manufacturing services, whether for an established product or a newly designed one. We can help with all



aspects of the process, covering productionisation, engineering services, new product introduction and ultimately low-to-medium volume manufacture.

We work closely with the leading-edge companies, universities and start-ups in order to turn state-of-the-art technology and research into commercial products. We can turn your ideas into a commercially-viable solution, whether as a small wearable device or large industrial system.

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Contact
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CeraCon UK



CeraCon UK is a specialist foam sealing company, based in Leamington Spa, who provide their customers with IP rated high performance seals. By using a 6 axis robot to directly apply our CerPUR foam to customer's parts, CeraCon is able to produce a high performance foam gasket on any substrate. It also makes the manual application of seals entirely redundant. From simple flat parts to complex 3D profiles and double face parts, the possibilities for our customers are endless with this unique application process. The foam seal then cures in seconds on site, ready to be dispatched back to the customer.

Since its opening in 2013, CeraCon UK have built an excellent reputation within the automotive, electronics and lighting industry. The diversity of our customers is one of the reasons that the Engineering Design Show (EDS) works so well for our company, as it has attendees and exhibitors from all sectors. We have attended the show for the past 6 years and are looking forward to doing so in the years to come. If you're looking for a reliable sealing solution then come and visit CeraCon at the next EDS show or contact us on the details below.

T 01926 336231
uk@ceracon.com
www.ceracon.co.uk

Transfer Multisort Elektronik



Transfer Multisort Elektronik is a multi-generational family company that was established in the 1990s. It evolved from a small shop located in the centre of Łódź offering electronic components for servicing purposes and small-scale production. After two years, TME issued its first catalogue and started mail-order sales of electronic components, which was innovative for its time.

With time, the product portfolio expanded, which required investment, so a modern logistics centre with a warehouse was built in 1997. Since then, the facility has grown several times, and the tme.eu online store has been launched.

Currently, TME is one of the biggest global distributors of

electronic and electromechanical components as well as workshop and industrial automation equipment. The company employs more than 900 employees in its headquarters in Poland and in subsidiaries in other countries.

TME supplies thousands of companies in 140 countries and sends 5000 packages a day. Among 300.000 products on our offer, you will find goods manufactured by nearly 1000 producers. Every year, TME participates in dozens of trade fair events all over the world.

Contact
T +48 42 293 41 29
www.tme.eu



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Delivering specialist sourcing support

Independent stocking distributor and sourcing specialist, Globe Electronics, is growing fast thanks to a history of supporting customers by stocking devices and locating difficult to find electronic components from a wide range of partners and suppliers. In the last twelve months the company has added several franchised lines to complement its existing portfolio of supported component manufacturers. This includes wireless and resistive products from Aurel and a broad range of film capacitors from CRC New Energy.

As a small business, Globe describes itself as being large enough to handle all kinds of purchasing requirements, yet with small company principles that remain focussed on personally supporting customers. Facilities in Camberley, Surrey see the company ideally placed to work with any site in the UK, but also provide easy access to locations in Europe. Aiming to provide the best solution to your component sourcing problems, Globe Electronics is keen to make a positive difference to your component spending.

www.globeelectronics.co.uk



Four of Hydro's aluminium plants in the UK achieve ASI certification

Four of Hydro's aluminium manufacturing plants in the United Kingdom are now certified according to the ASI Performance Standard, which recognizes the responsible production, sourcing and stewardship of aluminium.



The certification from the Aluminium Stewardship Initiative (ASI) covers the extrusion and manufacturing operations at Hydro's plants in:

- Bedwas
- Birtley
- Cheltenham
- Tibshelf

The certification at Hydro's site in Tibshelf also includes operations at the aluminium remelting facility.

"This achievement is a credit to our employees at each of these locations and it is an important achievement with regard to our customers, who want sustainable materials such as aluminium from companies that do business the right way," says Paulo Geraldes, vice president responsible for the UK organization.

Hydro's extrusion organization in the UK manufactures and markets extruded aluminium profiles, and offers surface treatment and added-value operations to transform the profiles into the solutions that meet customer specifications in the transportation, automotive, general engineering, and building and construction industries.

"I would like to congratulate our teams in the UK on a job well done. We have directed all our operations toward ASI certification, because doing business the right way is what our company is all about," says executive vice president Egil Hogni, who leads Hydro's Extruded Solutions business area."

T 0191 301 1200

Winn & Coales at NW Show with Denso Pipe Protectants

On the 2nd October the sales team from Winn & Coales (Denso) Ltd were invited to take part in the annual United Utilities Developer Day held in the DW Stadium, Wigan.

The United Utilities Developer Day aims to provide a stage for housebuilder associations, suppliers and other utility companies in the North West to promote their products and services. Area Sales Managers Mat Holland and Andy Banks were present on the day to showcase the high-performance Winn & Coales (Denso) Ltd P1 and P2 Systems to asset managers and contractors – both systems effectively protect ferrous pipes, joints and fittings from the

costly effects of corrosion.

The systems are fully compliant with the P1 and P2 Civil Engineering Specifications for the water industry and can be easily applied on-site before the pipe is buried.

The day was a success for the team and in addition to meeting a number of interested visitors, Winn & Coales (Denso) Ltd donated a £250 prize to the raffle which all attendees were automatically entered into.

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For more information and full worldwide contact details:
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FAST Live & Engineering Materials Live 2019

In September 2019, FAST Live and Engineering Materials Live featured at Engineering Solutions Live, a one-day easy-to-attend event for all engineers involved in design, R&D, electronics, production, test, measurement and quality.

Created with the busy engineer in mind, this unique one-day event format has helped engineers for over 15 years, and

FAST LIVE

avoids the hassles of traditional trade shows by focusing on identifying solutions and learning about new techniques and technologies.

FAST Live is the UK's only specialist event for design engineers, production professionals and manufacturing managers with fastening and assembly needs. It is the only place where you can meet and talk with so many of the leading engineering experts and specialist suppliers in fastening and bonding for manufacturing applications.

Engineering Materials Live is the UK's focused, specialist advanced materials event for design and production engineers, offering the chance to say up to date with the latest developments and innovations in engineering materials.

Both FAST Live and Engineering Materials Live will be at the Engineering Solutions Live event again on March 12 2020 at the British Motor Museum.

LIVE

Engineering Materials

This is our pick of the best exhibitors from the show, listed here in alphabetical order: Advanced Witness Systems Ltd, Arconic Fastening Systems and Curtiss-Wright Surface Technologies. Further details can be found below.

www.engineeringsolutionslive.co.uk

Curtiss-Wright Surface Technologies

Curtiss-Wright Surface Technologies (CWST) provides high quality surface treatments which will improve the life and performance of critical components through its global network of over 70 operating divisions and specialist onsite teams. Our surface treatments have been successfully used by OEM's in major industries such as aerospace, automotive, oil & gas and power generation for many years.

We are only too aware of the logistical challenges and costs faced by our customers and so we can offer a "One Stop Shop" solution providing a wide range of surface treatments including Controlled Shot and Laser Shock Peening, bespoke and trade Coating Applications, Thermal Spray Coatings and Parylene Coatings for metal, alloy, plastic and electronic components as well as Analytical Services.

CURTISS - WRIGHT

We offer our customers a single source solution and point of contact for all their surface treatments, supporting their requirements through our global network of over 70 worldwide facilities and on-site field teams, improving and reducing turnaround times and costs.

We are specialists in protecting components from common failures and reducing maintenance costs for key industries such as aerospace, oil and gas, automotive, medical and general industrial markets.

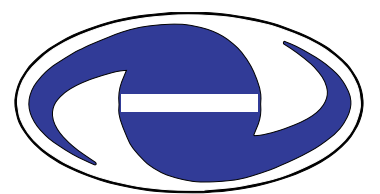
To find out more please visit www.cwst.co.uk.

Advanced Witness Systems Ltd

AWS specialises in manufacturing Torque instrumentation and software for measurement, calibration, control and certification. Principle staff have over 50 years combined experience in many industries providing innovative solutions in product and customer's requirements in a range up to 300kNm.

The company continues to grow after the release of our new Universal Torque Wrench Calibration Machine (UTWCM), and strong sales of our Kepler 4 calibration and conformity software to meet ISO 6789:2017, both of which are now in 4 international & national accredited labs, with more in the pipeline. We aim to get our AWS Universal Torque Screwdriver Calibration Machine (UTSCM) into the marketplace Q1 2020, along with our new Excalibur software to meet BS 7882:2017, for calibration and classification of torque measuring devices.

Visitors to the FAST Live show will be able to see our new UTSCM, alongside a selection of our Intelligent Inline Torque Transducers, Professional Transducer Display, and our bench testers. We will also have a copy of our



AWS

Advanced Witness Systems Ltd.

*Torque Measurement,
Control & Calibration*

Kepler 4 Software, for ISO 6789:2017, and our Excalibur Software, for BS 7882:2017, available for demonstration. Our Managing Director will also be presenting a seminar on Understanding and Implementing Torque Standards relating to Torque Tools, focusing on ISO 6789:2017.

T +44 (0)1295 266939
sales@awstorque.co.uk
www.awstorque.co.uk

Huck® BobTail® LockBolts – The next step in LockBolt evolution



The innovative BobTail LockBolt from Huck consists of two parts: a pin and a collar but uses an entirely different installation method to nuts & bolts. Specially designed ergonomic installation tooling (driven by pneumatic, hydraulic or battery power) is used to swage the collar materials into the grooves of the pin providing a permanent and completely vibration-resistant joint. Designed to overcome inherent weaknesses with standard LockBolts, the BobTail has no pin-tail to break and as a result, no waste material to collect and dispose of or potential corrosion issues post installation. The lightweight, low-noise, low-maintenance tooling, which can be used for both installing and removing fasteners, provides a smooth, shock-free, speedy installation sequence i.e. two seconds for a 16mm diameter fastener – twice as fast as any other large diameter lockbolt on the market. As a result, no torque or impact is transferred to the operator. BobTail is currently available in steel as 4.8mm to 36mm diameters.

About AFS

The AFS product range offers the greatest breadth and depth of fastening solutions available including: self-locking nuts, quick-release fasteners, latches, inserts, LockBolts & structural blind fasteners. Watch our video.

About Huck

Huck fasteners solve the problems associated with extreme stress and vibration between adjoining materials. They provide strength and facilitate stronger and more durable structures. The product range has evolved to include small & large diameter Lockbolts, medium & heavy-duty blind fasteners and accompanying installation tooling.

T +44 (0)800 0198 180
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AWS

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NEW

The all new AWS Universal Torque Wrench Calibration Machine provides an efficient means of calibrating and testing manually operated torque wrenches to international or company specific standards and specifications.

The UTWCM is available in two versions; Automatic and Semi-Automatic operation. Both apply the force to the tool via a linear carriage stepper motor and an AWS microcontroller.

Our independence from torque wrench manufacturers, and detailed knowledge of the marketplace, has enabled us to develop this truly universal torque wrench calibration machine

ADVANCED WITNESS SYSTEMS LTD
Telephone: +44 (0) 1295 266939 Email: sales@awstorque.co.uk
www.awstorque.co.uk

KED-Seals expands their Electrical Connectors product range and technical support

Industrial Process News is proud to announce that KED-Seals has been selected as our Material Technology Company of the Month, for its outstanding range of engineered seals and electrical connectors.

KED-Seals GmbH has been established in Germany for 11 years, and in 2015, Ian Gravill set up KED-Seals Ltd in partnership with the GmbH business in order to help support the global oil and gas industry. As a seals and material technology company, KED-Seals uses its expertise to provide technical and design support and to deliver reliable and cost effective product solutions for high pressure, high temperature and aggressive fluid media environments.

"I had worked for a seals company for 21 years, until I reached the point where I couldn't progress any further," explained Ian. "I took some time out before deciding to use my technical knowledge in seals to set up KED-Seals Ltd.

"When I was first establishing the company, I went out and identified where the competition was and improvements that could be made

in their offering. I wanted to make it easy for customers to deal with us, and there are five key differentiators that ensure we are a leader in our field.



"Firstly, our customer service is excellent; we are always quick to respond to any requests and willing to go the extra mile to get products to customers in a timely manner. We also have exceptional technical capabilities. In a lot of companies, the customer only talks to the sales person, who then has to pass on their request to an engineer. This process can take a couple of weeks and cause delays. Because of my engineering knowledge and experience,

I can talk to customers in depth about their needs and develop ideas and solutions immediately, which reduces the customers' product development timescale.

"KED-Seals aims to meet customer delivery requirements, which can be from next day to a standard 4-5 weeks, compared to 8-12 weeks it takes for other companies. This helps the customer do what they need to do in their own timeframe, rather than being dictated to by the supplier. Furthermore, we have a very wide product range. Because we have a network of supply partners, we can also work with them to develop new materials and products, so our range is almost unlimited. Finally, we always aim to deliver on time, and pride ourselves on our on-time delivery performance."

Recently, KED-Seals established a strategic partnership with LUC Technologies. Based in Houston, LUC Technologies designs and manufactures high performance electrical connector products. As a product development oriented company, it delivers innovative products, tailored solutions and customer support in the areas of High Pressure, High Temperature (HPHT) Downhole Connectors, Rotatable Connectors, Fibre Optic Assemblies, Electrical Assemblies, and Custom Rubber Moulding.

LUC Technologies' engineering and design team collaborate with customers to develop cost-effective solutions that push the technological envelope. Combining this with



KED-Seals' leading technical and commercial expertise is sure to create a valuable partnership, offering customers across Europe and the Middle East market-leading Electrical Connectors.

As KED-Seals Ltd continues to expand its presence in the UK, it will be moving into new offices in Aberdeenshire in the next few months. "We'll be continuing to concentrate on our customers to ensure we are always offering the best service and product range available. Last year we attended SPE Offshore Europe for the first time, which went really well for us, so we will be attending again in 2021."

If you would like to find out more information on KED-Seals and everything it has to offer, head to the website or get in touch using the contact details below.

Contact
M +44 (0)7961 078750
igravill@ked-seals.com



Food & Drink Manufacturing News



New energy-efficient cooling system to meet growing demand for chilled potato products

JD Industrial Cooling (JDI), independent specialists in industrial refrigeration and part of the JD Cooling Group, has designed and installed a complete energy-efficient ammonia and glycol (HFC & HFO free) cooling system to enable potato farmer Albert Bartlett to meet the demands for their new chilled potato products.

Supplying over 20% of the UK's fresh potatoes and to the UK's major retailers, Albert Bartlett has invested in their Airdrie production site aligned to business growth. As part of this project, JDI was tasked with providing a new central temperature control system for the whole process factory including the refrigeration plant room, storage facilities and packing areas.

JDI's solution features a Sabroe low temperature screw compressor at 1,000 to 3,600rpm, three Sabroe (extended maintenance hours) high temperature reciprocating compressors with a speed range of 500-

1,800rpm, hybrid condenser, two spiral freezers to deliver mash potato in sealed trays, a mix of 16 dual discharge, aspiration and draw-through glycol air coolers; in addition to three end suction pumps, each with a flow rate of 242m³/hr frequency regulated. This application also includes two air handling units (AHUs) to serve the low-risk production space and the high-care area that have been specifically designed to maintain 5 Pascals of over pressurisation in automated form; allowing hatches/doors to open where the air volume increases or decreases accordingly. The AHU design is 12m³/s to the high care specification with filtration grade of G4 and H14.

Equipment capable of operating at optimised conditions throughout the varying load profile to save kW consumption and CO₂ reduction was the brief, as well as hygiene associated with food production. Key words that reflect the system design includes: high efficiency, zero GWP impact, 38+ years life-cycle, extended maintenance - long-life machines (50,000hours), highly optimised COP, N+1 redundancy design and low & high grade heat recovery ready.

"This was an interesting project, providing a full-service solution that meets the needs of such increased demand for chilled potato products. Committed to helping clients through all their cooling system needs, we aim to truly understand the business and work in partnership to deliver the most effective solutions", comments Mark Culley, JDI Managing Director.

In collaboration with JD Cooling Group's other business units, the automation system consists of two network protocols: Ethernet and Profibus. These were designed and installed by JDI Controls. As JDI standard, the electrical automation system has been designed to not have a single point of failure and specific software that helps to optimise the running conditions of the complete system.



JD Cooling JD Industrial Cooling JD Industrial Controls JD Power Systems

E-learning package goes from strength to strength

Warrington based Christeys Food Hygiene celebrates the launch of its industry specific e-learning programme one year on.

The Movimiento e-learning package, launched in January 2019 to support businesses in the food and beverage manufacturing sector,



has been taken up by customers across the country. The unique platform allows manufacturers to not only adapt the hygiene training included in the package, ensuring it is suitable for their particular business, but to also upload internal training programmes, policies and procedures to ensure all staff have access to everything they need to know.

Not one to rest on their laurels CFH looked to its customers for feedback and found that businesses want all their training in one place, making it easy to deploy, track and report on. To facilitate this CFH have formed a new strategic partnership with a well-established course provider, selecting courses most appropriate for their own customers. The Movimiento Learning Management System (LMS) now allows access to a vast selection of additional training topics such as HACCP Awareness and Understanding, Allergen Awareness, Hand Hygiene, Fire Safety and Pest Awareness.

An e-learning package such as Movimiento offers the best of both worlds – all the functionality of a top LMS, adaptable food safety training plus a vast choice of additional training topics.

Contact
www.christeysfoodhygiene.co.uk/movimiento

Northern lift for Apex Dynamics with appointment of a topflight Sales Manager

APEX Dynamics, has appointed a dedicated Northern Sales Manager, Malcolm Hillary (pictured) to further strengthen its profile in the north of England, Scotland and Ireland. He will be responsible for promoting the firm's planetary, spiral and bevel and rack and pinion gearboxes to a fast-growing customer base comprising engineering companies, system integrators and automation houses.



Malcolm brings to the role over 30 years of engineering experience, having cut his teeth as an apprentice marine fitter with Smiths Dockyard, following technical college. Prior to joining APEX Dynamics, he worked as a technical sales manager for a small number of companies involved in the linear motion sector, making him an ideal match for his latest role.

The appointment of Malcolm follows hard on the heels of the recent recruitment by APEX Dynamics of a new National Sales Manager, Andrew Parsons, who is responsible for overseeing the entire UK and Irish sales operation. Both men will also be promoting a new range of stainless steel, planetary servo gearboxes, which APEX Dynamics believes will be a game-changer for the food, pharmaceutical, packaging and automation sectors.

These latest appointments by the Uttoxeter-based company coincide with the launch of an exciting new comprehensive 28-page colour brochure which outlines the entire range of products.

This new literature encompasses inline planetary gearboxes, right angle planetary gearboxes, gearboxes with hypoid gear, new line, economic line, bevel gearboxes, racks and pinions along with lubrication systems.

www.apexdynauk.com

RK height adjustable monitor floor stand

With the new height adjustable monitor floor stand, RK Rose+Krieger is expanding its monitor mounting product range to include a robust ergonomic standing workstation for industry which can be set up quickly and is much more economical than complex workstations.



The work surface and monitor mounting are supported by a stable triple column system on a black powder coated base frame. The position can be easily adjusted by hand and has an adjustment stroke of 400mm.

The standard version of the stand has feet (steering rollers optional) and a rotary flange connecting plate. Pre-assembled modules are supplied for quick and easy set-up. The stand can also be combined with all available RK monitor holding components.

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Sensors & Instrumentation Live 2019

Sensors & Instrumentation Live is dedicated to providing visitors with innovative products and solutions from market leaders, offering the latest in industry thinking and developments and hands-on experiences. This is all within a vibrant, dynamic and interactive environment filled with exciting feature areas.

In September 2019, Sensors & Instrumentation Live celebrated its 10 year anniversary, where it introduced a fresh new look. The event attracted influencers and key decision makers that were looking to source the latest products and solutions, and visitors had the chance to see all of the industry's market leaders under one roof. What's more, exhibitors had the opportunity to enjoy an incredible ROI from the highly targeted and relevant crowd that attended.

One visitor commented, "Exhibitions such as Sensors & Instrumentation Live really do have an impact on the sector. It gives you a broad



range of opportunities to interact with others in the marketplace and it brings like-minded individuals and industries together, which [we] think is wonderful."

Sensors & Instrumentation Live will return to the NEC in Birmingham on 29-30 September 2020.

This is our pick of the best exhibitors from the show, listed here in alphabetical order: DD-Scientific, KEIKY Limited and Rheintacho UK. Further details can be found on this page.

Contact
www.sensorsandinstrumentationlive.co.uk

Rheintacho UK



Rheintacho UK, now celebrating its 100th anniversary, has been manufacturing and trading instruments, tachometers, tacho-generators as well as sensors and stroboscopes for over a century.

The newest generation of sensors includes speed sensors for high-pressure applications as well as sensors which withstand high temperatures. The trend to include more functions in one and the same products is being promoted by Rheintacho and can be best seen in the new family of sensors which not only measure rotational

speed, but also detect direction and position. And as an add-on, it also measures temperature as well in addition to getting smaller and smaller in size like our M8.

These features open up many new opportunities for customer applications as well as offering savings, as only one sensor is needed to cover more functions.

The portfolio of stroboscopes has some new family members, one now a handheld offering auto-synchronisation. The extensive programme includes different sizes of stationary stroboscope for different widths, many of which are available in xenon and led versions. The portable strobes are available as xenon and led devices.

The traditional eddy current and mechanical tachometers, all of which are ATEX certified are another pillar of success of the company and the "spares and repairs" team can really help everyone in need of a repair regardless of age and manufacturer.

T 0113 28784411
sales@rheintacho.co.uk



DD-Scientific complements long life oxygen sensor with flue gas offering

DD-Scientific is pleased to announce the latest of their new products; the S+50XLF. Building on our success in the life safety field with lead free oxygen technology, the S+50XLF provides more than five years stable measurement in the most challenging of environments.

The sensor has been optimised to remain trouble free in hot, dirty, wet conditions such as the exhausts of combustion processes in flues and chimneys. It offers long calibration intervals as a result of the minimised drift performance whilst providing a fast and reliable response to changing oxygen concentrations.

The S+50XLF is provided in an industry standard 28mm package and compatible with existing competitive alternatives. The sensor is the latest release in DD-Scientific's growing range of sensors for combustion analysis which



also includes hydrogen compensated carbon monoxide sensors and lead based oxygen sensors.

If you would like to learn more about the S+50XLF or any other sensors in the DD-Scientific portfolio of high performance products, please do not hesitate to contact us at sales@ddscientific.com.

KEIKY Limited



KEIKY Limited is an engineering and technology consultancy specializing in the areas of software, algorithms, modelling, firmware and instrument research and development. Our team of exceptionally qualified and experienced consultants, engineers and technologists are committed to

delivering innovative world class technology and services.

With a mix of electronic, mechanical, applied mathematics and software engineering experience gained working within a number of industries and academia, KEIKY can take products from market need right through to production. Alternatively, we can support you at any stage in the product development process with our experienced staff working alongside your own teams to provide the specific skills that are needed to create a world class product.

If you have a complex engineering and technology design problem, we are confident that we can help you solve it.

Contact
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Test, Measurement & Calibration News

NEW FROM



Mega_Bridge adds flexible and fully featured internet protocol (IP) connectivity to the well-established **Mega_Link** family of Telemetry & Control units used to pass two-way instrumentation, measurement and control data between sensors, equipment and industrial plant.

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Communications via Cloud Services

Mega_Bridge can communicate on a closed LAN or across networks and sites via Amazon Web Services, fully administered by Churchill Controls. This enables important security features using TLSv1.2 for authenticated and encrypted communications channels. VPN routing further secures the network, encrypting data with AES256 for a fully secured and transparent system for end users.

Contact us: 01344 750233
sales@churchill-controls.co.uk
www.churchill-controls.co.uk

Proximity Probes with direct 4-20mA output for Machinery Shaft Vibration Monitoring

DT-12x integrated displacement transmitters provide accurate radial and axial shaft displacement and vibration monitoring of industrial machines at a fraction of the cost of a normal displacement sensor, according to Brüel & Kjaer Vibro.

Conventional rack based or stand-alone vibration monitors are no longer needed and as the transmitter can be connected directly to a DCS/PLC, the solution is extremely economical.

The DT-12x series are integrated sensors, so the vibration driver (oscillator) and signal conditioning electronics (vibration monitor) are built directly into the sensor. This simplifies installation by eliminating the need and space requirements for a driver, vibration monitor and protective housing.

Brüel & Kjaer Vibro has been successfully implementing this technology into the IN-08x displacement sensors for many years now, but now this is available with a direct 4-20mA output

The transmitter is loop-

powered, meaning the low powered sensor is easy and inexpensive to install with only a two-wire connection. It provides a 4-20mA signal driven by an inexpensive external DC voltage source on the current loop that - when properly selected - is not affected by long wiring distance, voltage drops or noise.

The DT-12x series of displacement transmitters is just one of Brüel & Kjaer Vibro's comprehensive monitoring solutions that comprises all kinds of vibration sensors (acceleration, velocity and displacement), vibration monitors, handhelds and rack-based plant-wide integrated monitoring solutions.

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Fully automated, portable, high speed calibration

The calibration experts at Chamois Metrology have a range of pressure, temperature and process calibration solutions to fit every budget. From wireless pressure standards, innovative pressure generation systems to handheld pressure controllers and wireless temperature calibrators. Field calibration has certainly moved on in the last decade and Chamois continue to work with their partner, Additel, to bring you the very latest automated calibrators for every budget.



Customers have challenged the calibration industry to come up with innovative ways to deliver results in the field, using less people; less time and working more safely than ever. The Additel 875 series, ADT-761A and ADT-760 provide all of the above. Chamois will advise you on the very best solution for your needs. We don't stop there either. Our team of calibration engineers will also train you, maintain your equipment and calibrate your calibrators, in our world class ISO 17025 lab, accredited by UKAS (lab number 0822).

Contact Jon Shan and the team via email, info@chamois.net or call us on 01926 812066

Sustainable & cost saving film solution from CCL Label: Triple S®

CCL Label was the first company worldwide to launch Triple S® – a Super Stretch Sleeve that allows the application to bottles without adhesives or heat. In this way cost savings are possible.

A sustainable film solution with full design freedom in optimal printing quality. The Stretch Sleeve is stretched and applied to container without the use of adhesives or heat. The natural elasticity is all that is required to hold the sleeve in place. This process enormously reduces energy consumption.



Without the usage of adhesive, easy separation of the container and film is possible. Due to the low density of the material, the film will float at the top; the PET bottle sinks to the bottom (during the recycling process). This will simplify the recycling process. “The development of Triple S® is an important step to create sustainable packaging solutions for the future”, Wolfgang Plösch (Business Development Director) explained. “We can combine design and sustainability to increase market advantages for our customers.” Benefits: – Material & energy saving – Low carbon footprint – Low density for the film supports the recycling process

Sustainability is about more than just conservation; it also means being responsible corporate citizens while producing quality products. A key part of this process is working internally with employees and externally with partners to create more efficient and environmentally friendly options.

www.ccllabel.com
www.cclind.com



The one stop shop for all of your labelling needs



Experts in labels, labelling and label printing, Datamark supply and manufacture a varied range of labelling solutions to a wide range of customers spread across various industries. Enlisting in the services of Datamark, customers can enjoy numerous benefits, for example gaining from the years of knowledge and experience amassed by Datamark.

Constantly innovating and seeking to add new products to their already extensive range, Datamark truly are the one stop shop for all of your labelling needs. Moving from strength to strength since its inception in 1995, Datamark offers customers competitive pricing, unparalleled customer service, reliable deliveries, rapid quote turnaround, and an extensive product range.

Datamark's product range includes: Plain and Colourwashed Labels, Flexographic Printed Labels, A4 Sheeted Labels, Fanfolded Labels & Tags, Own Brand Thermal Transfer Ribbons, Thermal Transfer Ribbons, Thermal Transfer Bureau Print Solutions, GoDex and other brand Thermal Transfer Printers, Thermal Transfer and Direct Thermal Print Solutions, and TT Printers Service and Maintenance. Driving the company forward, aside from their extensive product range, is their continued emphasis on providing the best customer service possible. It is no wonder that Datamark supply such a wide variety of industries, including; food, distribution and logistics, storage and contract packers, electronics, homecare, automotive and industrial.

sales@datamarkuk.com
www.datamarkuk.com

OKI Europe celebrates 30 years of led technology

Three decades on from the release of its first LED printers, OKI Europe is celebrating its history as a founder and champion of LED printer technology, which it continues to refine and use in its award-winning devices.

From easy maintenance to superior speed, accuracy, unrivalled media handing capabilities and print quality, OKI Europe is passionate about the benefits OKI's LED printer technology delivers.

As part of its 30-year celebration of LED innovation, OKI is inviting its customers and partners to share their experiences with OKI's LED technology through a series of fun customer-generated videos. OKI is also challenging customers to test the accuracy and precision of OKI LED printers and multifunction printers (MFPs) by printing Daniel Defoe's entire novel, Robinson Crusoe, on a single-page PDF and viewing the printout with a magnifying glass to see just how clear the tiny text appears.

OKI Europe – innovating with LED

OKI pioneered LED technology within printers in 1989 with the launch of the OL400 and OL800, Europe's first LED printers. In 1998, it launched the OKIPAGE 8c, OKI's first digital colour printer with speeds that were twice as fast as its competitors.

Further innovation with LED printer technology followed; in 2005, OKI launched the C5500 MFP, the world's first A4 colour multifunction printer in the LED/laser market. It went on to use the technology as part of a series of innovations in size, speed and colour, launching ground-breaking printers that were faster, smaller and more affordable than competitors' models, making colour printing on a range of different media accessible to all. And as a testament to this strategy, earlier this year, OKI launched the multi-award winning C800 Series, the smallest A3 colour printer on the market.

For further information, visit www.okieurope.com/LED



LX610e – world's first desktop inkjet label printer with integrated x/y cutting plotter

Discover how the LX610e Color Label Printer from DTM Print produces short runs of high-quality labels in any size or shape without custom dies

DTM Print, international OEM and solution provider for specialty printing systems, recently announced the sales start of new the LX610e Color Label Printer, the latest product of US manufacturer Primera Technology, Inc.

The LX610e is the only full-colour, desktop label printer/plotter in the world that delivers photo-quality



labels in any size and shape. It combines colour inkjet label printing with a built-in digital die-cutting mechanism. The printer features a built-in die-cutting knife blade for cutting labels into custom shapes and sizes and also a built-in "pizza-wheel" style cutter for horizontal cutting of labels.

LX610e includes an easy-to-use software, called PTCreat™, for laying out print and cut files. That allows the fast production of custom labels of virtually any size or shape all in one process. Like any other desktop colour label printer the LX610e can also be fed with standard pre die-cut labels and tags for just printing.

Those who can benefit from LX610e include professional print businesses, label converters, advertising agencies, graphic design shops and other print providers, who will find the printer/plotter invaluable for producing accurate label samples, prototypes and short runs for client approval, prior to ordering expensive hard-tooled or flexible dies. In addition, small businesses can print their own short runs of hundreds or a few



thousand custom labels, without incurring delays and die costs, while continuing to send their longer runs to label production shops. That provides them with even more value and flexibility.

DTM Print provides its customers a wide selection of inkjet label substrates, all available as pre-die cut or continuous material, as well as die-cutting substrates with enhanced backing for digital cutting.

The software PTCreat is available for free download and allows all typical print and cut functions, including

import of images, drawing of circles, squares, ovals, rectangles, starbursts and more.

Upgraded software, called PTCreat™ Pro, is sold separately and extends the capabilities of LX610e by adding many additional tools, including layering, export of images and contour cutting around intricate artwork. The auto-trace cut function is especially useful for printing and cutting complicated shapes and designs.

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Pregis invests in European operations to support growing protective packaging requirements

Protective packaging specialists, Pregis, has made several recent investments in its European operations to support the growing protective packaging needs of its broad global customer base.

The company recently opened a new energy-efficient facility in Stevenage, UK which includes a Customer Experience and Paper Specialist Centre (PSC) under one roof. The dual-purpose facility doubles the output of its 100% recycled paper production to support growing European market needs for paper cushioning and void fill applications.

The additional converting capability includes 100% recycled fan-fold paper that is dispensed on demand by Pregis' Quantum system, for void fill packaging applications. This product line extension is well suited for packing stations requiring high output and optimal worker safety.

The Customer Experience Centre offers customers a hands-on training experience utilising Pregis' wide portfolio of packaging solutions. Included is a full range of paper and inflatable protective packaging systems, as well as unboxing scenarios and classroom training to help marketers select the right materials for the desired customer experience.

The Film and Foam Specialist Centre in Heerlen, The Netherlands, blows film which is turned into roll stock for the company's broad portfolio of inflatable packaging systems. These systems use minimal material which can be recycled, to provide optimal protection against damage.

"We are keenly aware that environmental objectives are driving many of today's packaging decisions. The protective packaging solutions we have created are designed to reduce material consumption and most importantly, eliminate

damage. At Pregis, we know that reducing damage is one of the most positive ways to benefit the environment," said Kevin Baudhuin, president and chief executive officer, Pregis.

"Our mission is to protect against damage, preserve the environment and inspire people to do good for the world around us."

Pregis' European portfolio also features a wide variety of loose fill options including 100% biodegradable starch-based as well as 100% recycled polystyrene material. Both provide an environmentally-conscious option for customers that prefer an integrated packaging solution that is suited for high volumes which require minimal labour.

To support the expanded products and services, Pregis is launching a European centric web site to



showcase its robust portfolio of paper packaging, inflated air systems and loose-fill products, as well as the Sharp Packaging Systems by Pregis. The Sharp brand includes poly bagging materials and equipment which has been recently introduced into Europe.

For further information visit www.pregis.com.

Maintec Review Top 10

Maintec 2019 – The home of the UK maintenance community



Maintec is the home of the UK maintenance community, welcoming professionals from buildings, supply chain and industrial maintenance sectors. By exhibiting at Maintec, companies can display their products, meet with prospective clients, and raise their profile in the maintenance community, all with one single investment.

With over 2,000 quality attendees across the entire industrial, buildings and supply chain maintenance engineering market, 2019's event offered an excellent

chance to meet with people who had purchasing power or influence – 82% of visitors had budgets to spend.

It was also the perfect opportunity to generate qualified sales opportunities onsite using the event's lead capture devices, where companies could choose a sponsorship package to raise their profile further and position their team as thought leaders.

Maintec 2019 also offered the perfect place to launch new products into the UK market, with many members of the press and media in attendance.

What's more, as soon as you sign up, Maintec offers a comprehensive marketing package with immediate brand awareness through its print and digital channels. Maintec will return on 4-5 November 2020 at the NEC, Birmingham.

This is our pick of the best exhibitors from the show, listed here in alphabetical order: Boccard, Megger and SDT Ultrasound. Further details can be found on this page.

www.maintec.co.uk

LUBExpert



An ultrasound solution to Grease Bearings Right

Why Lubricate?

The real reason to lubricate assets is to form separation between surfaces.

The primary purpose to lubricate physical assets is to keep moving surfaces from coming into contact with each other. Because when they do, failure modes are initiated, and lifecycle is shortened.

Until now industry was comfortable to satisfy their asset's

lubrication needs based on a calendar and a calculator without asking themselves what happens when you:

- Add too much grease, and bearings enter a churning phase → that produces high friction.
- Add too little grease, and there's no separation of components → that also produces high friction.

The common denominator in these scenarios is FRICTION but when you add just the right amount of grease, the bearings enter the bleeding phase where friction levels are low → the best technology to monitor, measure, and trend friction is ultrasound.

Lube technicians need the right tools, and they need to be trained on how those tools interact with their organization's goal to achieve precision lubrication.

When a trained lube tech measures the effect every shot of grease has on the friction levels in a bearing, he knows when to start, when to stop, and exactly what quantity of grease is required to restore optimum friction.

When a trained lube tech achieves lubrication excellence, he becomes a LUBExpert.

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- to reduce your OPEX (existing or new facilities)
- to improve your system productivity & availability
- to minimize your environmental footprint

Maintec 2020 will allow Boccard to showcase BocPredict, a maintenance solution based on Industrial IoT sensors and machine learning algorithms

Our solution allows you to foresee a failure and prevent them before they happen by providing your operators reliable, constant and reactive data.

Our predictive program enables the most efficient data-driven decision in order to receive the best outcomes

www.bocpredict.com



Megger

Megger has been a leader in electrical test and measurement globally for 130 years. From power generation to the power outlets in your home, Megger products cover almost every application within the Electrical Supply Industry.

Our products are categorised into seven core application segments: cable test and diagnostics, protection relays and systems, circuit breakers, transformer test and diagnostics, low voltage installations, general electrical testing, and motor and generator testing.

At Maintec, we will be exhibiting our products that cater to the Industrial, Buildings & Supply Chain Maintenance Engineering industries. We will also have our range of Motor Testing equipment including the Baker DX and AWA-IV.

We are located on Stand 108, visit the team and ask for a personal demonstration.

Contact
T 01304 502100
uksales@megger.com
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UK firm launches innovative new handling and storage system that could save around 46% staff handling time

Alison Handling, the UK's largest stockist of recyclable plastic storage systems, has launched a revolutionary new handling system, designed to cut transport times between the warehouse and the shelf. Having worked with a major retailer on the trials, Alison Handling is confident that by using the new systems it will potentially cut staff handling times between the warehouse and the store by approximately 46%.

The new A-Link Dolly is a rack to shelf solution, cutting the need for cage trolleys, and inefficient storage systems.

The A-Link Dolly has been over a year in development and testing and represents a major R&D investment for Alison Handling. The system is a unique wheeled dolly, designed to accommodate all types of plastic storage boxes, tote boxes, stack-nest crates, with a



feature on the trolley to create location points for castors for safe stacking of the dollies when in storage or returned to store.

In addition to its flexibility, in terms of what can be placed on the dolly, it is also completely flexible in how it can be used. It has a unique feature where it can be interlocked on all four sides with no moving parts, along with the ability to connect dollies to each other in either a portrait and/or landscape shape, giving the operative the opportunity to create a dolly train or a customised formation.

This means the dolly is completely flexible, so you can stack boxes at a safe height to transport larger amounts of product from the warehouse to the shelf.

For more information on the new A-Link Dolly, visit: www.alisonhandling.com/index.php?route=product/category&path=74_165

Qimarox Prorunners are multi-purpose

More and more companies are taking advantage of the opportunity to give their Prorunner mk5 a second life. If they adapt or expand their production or packaging lines, this vertical conveyor from Qimarox can be given a new function after a minor modification. Due to the modular design with only standard components, the Prorunner mk5 fits effortlessly into any layout.

Unpredictability and uncertainty is increasing in the consumer product market. At the same time, the number of product introductions is growing, and product ranges are growing. As a result, manufacturers of consumer

products are increasingly being forced to adapt or expand existing production and packaging lines. More and more manufacturers are taking advantage of the modular design of the Prorunner mk5, the vertical conveyor system from Qimarox. With a few modifications, they can easily re-use their existing Prorunners in a new layout.

The Prorunner mk5 has a standard, modular design that is entirely made up of standard components. As a result, the configuration of this vertical transport system can be adapted in a short time by reusing crucial components for the drive, for example. You can adjust the infeed and/or



outfeed height by placing a piece in between or removing it. Qimarox has the necessary components in stock, so that customers can count on fast response times.

Contact
T +31 (0)341 436700
info@qimarox.com
www.qimarox.com

Northern Manufacturing & Electronics Review Top 10

Northern Manufacturing & Electronics 2019

Northern Manufacturing & Electronics is the north's premier industrial technology show, offering the chance to see the very latest machinery and production technology and to meet the region's top engineering service providers. This is all in one, easily accessible place with free admission and free parking.

Without a doubt, it is the must attend event for anyone involved in design, engineering production and procurement, offering the ideal place to see all the latest in production hardware, components, consumables and technology.

In 2019, the show made a triumphant return to EventCity, Manchester on 2-3 October, and set a new attendance record. It welcomed 2,240 industry professionals over the two days, an increase of more than 10% on the previous event. Over 200 companies and organisations participated in the show.

The visitor demographics for 2019's event display significant increases in attendance from the aerospace, defence, electronics, medical and industrial machinery sectors. Materials and composites, rapid prototyping, electronic assembly, sensors and toolmaking all saw significant



uptakes in interest, reflecting a wider interest in advanced manufacturing materials and techniques.

Northern Manufacturing & Electronics will be returning to EventCity on 7-8 October 2020.

This is our pick of the best exhibitors from the show, listed here in alphabetical order: CIM Services Ltd, HPC Laser, SOURCEWAYS and Tritec Systems Ltd. Further details can be found on this page.

www.industrynorth.co.uk

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- Consultancy
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- Development

CIM are forecasting growth this year thanks to a successful second time exhibiting at Southern Manufacturing, with visitors expressing vast interest in their new bespoke manufacturing solution, Cim50.



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Tritec Systems Ltd

Tritec Systems Ltd is an established UK systems integrator providing industrial automation and control systems, software, support and maintenance services. Celebrating over 30 years of business, we have longstanding partnerships with the key suppliers to the industry such as Siemens, Rockwell, Mitsubishi, Wonderware, Copia Data and more.

Providing solutions and services that assist and support our customers daily businesses, and through continuous monitoring and improvement initiatives and embracing new technologies such as IIoT, RFID tracking and Cybersecurity we continue to deliver high quality solutions.

Our network of engineers based throughout the country allows us flexibility for rapid response to support requests and to reach across the UK, headquartered in Hampshire we have recently opened a second office in County Durham.

We work across a wide range of industries including automotive, renewable energy, food & drink, manufacturing, paper, pharmaceutical, process, water and utilities at all levels of the business; from shop floor automation with PLC, HMI, SCADA and robotics right through to MES/ERP integration, database and reporting systems.

We deliver across all parts of the project spectrum from full turnkey solutions to day rate engineering solutions including panel build, electrical specification and installation, safety assessments, commissioning, validation and project management.

sales@tritec.co.uk
www.tritec.co.uk



HPC Laser



HPC Laser is one of the UK's leading suppliers of CO₂ laser cutting and engraving machines, CNC routers and fibre laser metal cutting machines. Established in 2006, our team of skilled engineers have delivered, installed, serviced

and supported over 5000 Laserscript machines across the UK into a multitude of educational, domestic and industrial applications.

Our CO₂ machines range from 35W to 220W and bed sizes up to 3000mm x 2000mm. We also offer a range of CNC routers with bed sizes from 600mm x 900mm and fibre laser metal cutting machines capable of cutting up to 25mm mild steel.

Many of our CO₂ models are available with laser upgrade options depending upon the material and thicknesses to be processed and our clever modular design allows our larger machines to be part-

disassembled to fit through a single doorway.

All our PRO machines are covered by a 1 year ONSITE warranty and options are available to extend up to 3 years.

All of our customers benefit from free of charge lifetime telephone support and onsite engineer support is always available for more complex issues.

We offer free live demonstrations at our Halifax showroom where prospective customers are able to see our machines processing their designs and their materials.

www.hpclaser.co.uk

SOURCEWAYS – When you need a reliable supply partner

Finding a manufacturing or supply partner in a foreign country often presents a difficult challenge. SOURCEWAYS is a business who help UK companies find such partners in Eastern Europe, setup the projects and build strong and productive business relationships.

SOURCEWAYS save UK companies the additional resources, time and experience needed to manage manufacturing sourcing, outsourcing and relocation projects by offering a complete package of services, including research, supplier evaluation, visits, interpretation, progressing quotes, clarifying technical issues, assisting with contract negotiations and ensuring good mutual understanding of all aspects of the business.

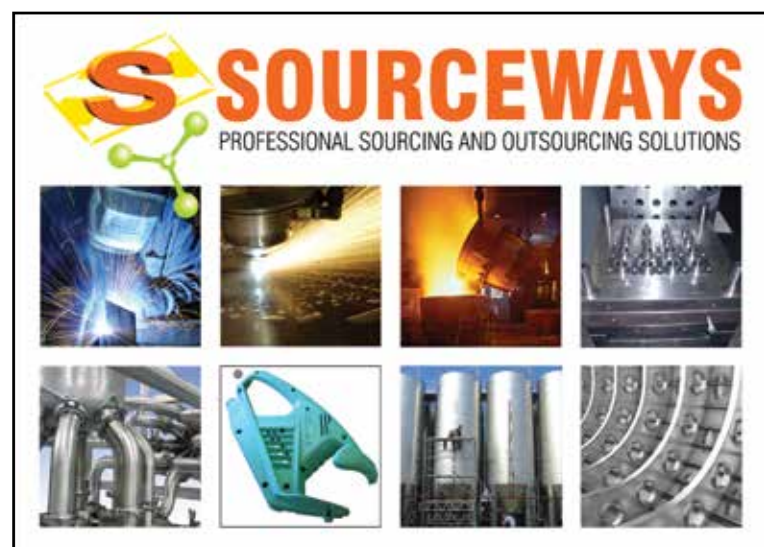
SOURCEWAYS have a tried and tested network of suppliers, mainly in Central and Eastern Europe, covering a wide range of services and manufacturing capabilities, including tooling design and manufacture, casting, forging, machining, metal fabrication, machine building, design and manufacture of steel vessels and tanks, plastic moulding, electronic assembly, prototyping, explosion proof equipment.

What makes SOURCEWAYS a very attractive sourcing partner is their business model which saves UK clients all upfront costs for finding appropriate suppliers and reaching the actual production or supply stage of their project. In most cases, the cost of SOURCEWAYS' services is covered by the supplier only when a project



is up and running, which ensures that bringing the projects to fruition is the main motivation driving the SOURCEWAYS business.

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Technology for a sustainable future

Industrial Process News is proud to announce that ERG (Air Pollution Control) Ltd has been selected as our Environmental Engineering Company of the Month, for its outstanding work within industrial air pollution control.

Founded in 1978, ERG's head office is based in Horsham, with a manufacturing division nearby, and offices in Jordan, Dubai and Moscow. With over 40 years of expertise, ERG designs, supplies, installs, commissions and services air pollution control systems.



"Our systems are used in an ever increasing wide range of industrial process operations," explained Richard Hanson, Managing Director. "Here, we are engaged to extract pollutants (toxic compounds, solvents, acids, particulates etc.) from process gas streams. Examples include the purification of raw methane from gas wells in Qatar prior to downstream fertiliser



production, and extraction of chlorine gas from fumes generated in the refining of speciality metals in Russia."

Thanks to ERG's strong in-house process engineering expertise across a vast range of gas treatment technologies, the company can propose high-tech, robust solutions to help with industrial processes, with clients involved in numerous different process industries, such as oil and gas, bulk chemicals, pharmaceuticals, high technologies, and anaerobic digestion, to name a few. "In these areas, no two systems are the same, as the gas compositions, temperatures and conditions differ between each application. This means that each device needs to be bespoke, and our comprehensive process engineering knowledge base means that ERG can do this to the highest standards."

A notable part of ERG's offering is its patented gas scrubbing technology, called the V-tex® scrubber. Rather than using internal packing to increase the surface contact between the liquid cleaner and gas, the V-tex® uses a fine droplet spray pattern and gas vortex to ensure maximum mass transfer efficiency. "It is half the size of other gas scrubbers, so takes up less space. Also, scrubbers with internal packing risk getting fouled up, which then need cleaning; because the V-tex® has no internals to foul, there are minimal clean-out costs.



"The V-tex® also features a greater operating range, allowing nearly 100% scrubbing efficiency at any gas flowrate. This means it has a wider range of operating conditions, making it ideal for applications where the flowrate of the process gas streams can vary widely."

V-tex® also features low installation costs, especially when retrofitting into existing buildings, because of its low height, and smaller volumes of spent liquor are sent to waste as V-tex® can scrub with viscous liquors and slurries.

ERG also offers a range of thermal gas treatment systems. This includes thermal oxidisers, which provide the thermal destruction process to ERG's air pollution abatement technologies. During thermal destruction, any hydrocarbon solid, liquid or gas heated to 850–1100°C will break down and, in the presence of excess oxygen, will form normal flue gas products. When this destruction results in flue gas products that are considered noxious or hazardous pollutants, ERG can offer bespoke project solutions that eliminate these gases and therefore help clients to comply with The Industrial Emissions Directive.



"We offer integrated abatement systems to remove these harmful gases," explained Martin Murphy, Business Development Manager for ERG's Thermal Systems division. "ERG can offer a bespoke, efficient, safe, and cost-effective system which is highly flexible in its design. Our products are designed in house and can be

tailored to suit each customer's application.

A few years ago, ERG underwent a 'divisionalisation', where each of its departments was formed into separate divisions to create more of a group structure,



rather than a single company with multiple departments. Indeed, ERG has witnessed exponential growth since its establishment, and this change has enabled the company to evolve in response to its continuing expansion, allowing each division to better address its customers' needs.

For 2020, ERG has some exciting plans on the horizon. "We have a build project underway for a new purpose built factory and new headquarters office on a new site just outside Horsham. We expect to relocate there in mid-2020. This will enable us to manufacture larger scale scrubbers and vessels, and to raise production quality through the design and build process. In addition, we have a strategic goal to continue our growth in export markets, particularly in the Middle East and Russia," Richard said.

If you would like to find out more information on ERG's leading product portfolio, and how the company can help you, head to the website or get in touch using the contact details below.

Contact
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info@ergapc.co.uk
www.ergapc.co.uk