

INDUSTRIAL PROCESS NEWS

Tel: 0121 550 2086 - www.industrialprocessnews.co.uk - September - Issue 695

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IPN

T.D. Williamson. Solutions for the Life of Your Pipeline

T.D. Williamson has been selected as one of our top exhibitors from the Subsea Expo. Further information on the show can be found on page 16.

During their lifecycle, most pipelines require some form of intervention for maintenance, repair or replacement. That's challenging enough on land, but performing the work subsea increases the complexity and risk. To enable safe interventions while minimising downtime, global pipeline solutions provider

T.D. Williamson (TDW) has deployed its in-line SmartPlug® isolation system in 300+ offshore projects worldwide.

With two plug modules working independently to isolate the full pipeline pressure alone, the SmartPlug tool meets the criteria for a true double block isolation, which provides a significant safety advantage for divers.

Designed for 8-inch through 48-inch pipelines, SmartPlug technology has been used during



valve replacement, riser and midline repair, tie-ins, hydrotesting and trap installation, and for dropped object protection during construction. Gary Anderson, director of offshore market development, oversees the SmartPlug product line.

Anderson is widely recognized for his expertise in subsea pipeline integrity. Before his current position, he led the TDW research and development group in Stavanger, Norway. Anderson earned his BEng in Engineering Technology from Northumbria University. He is a Chartered Engineer of the Institute of Mechanical Engineers.

For more information on SmartPlug® technology and other pipeline solutions, please visit www.tdwilliamson.com.

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Electromechanical Switches
Elastomer Keypads

Membrane Switches
Elastomeric Connectors

A wide range of Thumbwheel, Rotary DIP and Strip Switches these are still one of the best man / machine interface components available.

Elastomer Keypads are made to your own design, any size, shape and colour with legend protection enhancements.

Membrane Switches are a self contained printed keyboard which offers low cost and high reliability. They are custom designed, thin and flexible. They are available with tactile/non tactile feedback, surface embossing, backlit legends, silver or carbon tracking and RFI or EMC shielding if required.

Elastomeric connectors made from silicon rubber offer an economic and reliable solderless connection. They are widely used on digital screens, home electrical goods and communication equipment.

Ask about our Value Added Keypad Assemblies

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We are a niche consultancy focussing on delivering and sustaining improvement through Lean tools and techniques

We specialise in the application of improvement methods to optimise your processes, achieving significant business benefits through lead time reduction and right first-time delivery.

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- Manufacturing improvement – Classic Lean improvement through value stream mapping and associated Lean tools
- Business Process Improvement – Improving the supporting office processes through process mapping and organisational alignment
- The Green Factory – Combining Lean thinking with reducing the environmental impact of your factory

Our Director Neil Trivedi is speaking at the Mach conference on Tuesday 26th January on the subject of The Green Factory. Come along if you want to hear a first-hand account of how to make your factory green.

Great systems and processes are key to success in business and by reviewing these we help businesses to achieve greater efficiencies with resultant profit and cash flow benefits. We do this through our tried and tested coaching and training programmes. Our approach is to provide an initial diagnostic review, at our cost, to understand the business issues and discuss how we might help.

See us at the Mach conference on stand 6-641, 25-28 January 2021 at the NEC, Birmingham.

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www.theprocess.co.uk



A cost effective and reliable solution to low concentration mercury and arsenic analysis in petrochemical waste streams

The presence of mercury (Hg) and arsenic (As) in petrochemical waste streams is under increasing scrutiny and discharge regulations require monitoring protocols to ensure environmental compliance.

Analytically, the determination of ultra-low concentrations of these 2 elements is not easily achieved. Instruments based on electrochemical detection suffer from sample fouling problems and other interferences. In addition, flow-through

systems consume large volumes of reagents, especially when operated on a 24/7 basis.

P S Analytical has developed a novel Atomic Fluorescence on-line analyser (10.226). The system uses lower volumes of reagents (<5ml per sample) whilst still having unprecedented analytical performance. Other benefits include; gas saver options, automatic calibration, wide linear working ranges, up to 10 sample streams and grab sample capability.

PSA have analysers to suit all aspects of the monitoring and analysis of Hg, including laboratory instruments and on-line analysers for gases and liquids. By employing atomic fluorescence spectroscopy as the means of detection the PSA analysers provide unsurpassed detection performance. With literally thousands of systems in the field today and a global support network PSA offers a great package of performance, reliability and support.

jlw@psanalytical.com



Fastpath complements security of Microsoft Dynamics 365 for Finance and Operations with Fastpath Security Designer powered by Microsoft Azure

The Challenge

As companies continue to see benefits with digital transformation and utilize all the capabilities inside Microsoft Dynamics 365 for Finance and Operations, the area of security is more important than ever. As business processes change and users are introduced to the benefits of digital transformation in their daily tasks and department functions, security around these tasks and functions continues to be critically important to ensure these benefits are realized.

Many times, security is one of the last pieces of a software implementation project to be completed and consequently does not receive the proper amount of time or resources to effectively set up proper controls over company records and assets. Without the right tool and procedures in place for managing user access, controls can be compromised. Errors, intentional or not, can occur, and data privacy and financial risks are elevated.

The Solution

Security Designer by Fastpath provides a Microsoft Azure-based solution to manage user access and administration efficiently inside Dynamics 365 Finance and Operations. It gives security and IT administrators functional tools that they require as well as a framework designed around the industry.



The solution ensures security is easy to set up during a company's digital transformation journey with Dynamics 365 for Finance and Operations. With Fastpath Security Designer, company IT teams can easily edit and create roles with an automatic risk review. Starting with the ability to model security changes, they can simulate edits and view where conflicts exist versus where they would exist if changes went into effect.

Administrators can also create multiple security models, and, in turn, be able to decide which model best fits the company's needs with the lowest possible risk level. Finally, if the implementation of changes is approved, these can be written directly to Dynamics 365 Finance and Operations, requiring no repeat work, from security analysis to provisioning.

The Fastpath Security Designer is complementary to Dynamics 365 Finance and Operations's native security configuration.

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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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Engineering Solutions Live 2020

ENGINEERING SOLUTIONS LIVE
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Engineering Solutions Live took place on 12 March 2020 at the British Motor Museum, Gaydon. The event brought together four key engineering technology areas under one roof: Engineering Materials Live, the FAST Show, Make Measurement Matter and PCB Design & Manufacturing Live.

Created with the busy engineer in mind, this unique, one-day event avoided the hassle of traditional trade shows by focusing on identifying solutions and learning about new techniques and technologies. The event built upon the power of established successful exhibition brands, as well as including newer, complementary elements that offered time-poor engineers a broader and

more valuable visiting experience.

The event included numerous technical workshop sessions led by industry thought leaders, and offered the chance to network with industry peers. There were also over 100 market-leading engineering and manufacturing suppliers in attendance, making it a must-attend event for all engineering, design and manufacturing professionals.

The next event will take place on 11 March 2021, and will follow all recommendations and guidelines on the health and safety of visitors, exhibitors and staff in light of COVID-19.

This is our pick of the best exhibitors from this year's show, listed here in alphabetical order: Curtiss-Wright, Parallel Systems, Phoenix Mecano and Tantec. Further details can be found on this page.

www.engineeringsolutionslive.co.uk

RK Rose+Krieger

RK Rose+Krieger (part of the international Phoenix Mecano group of companies) have been manufacturing components for automation and machine building for over 40 years. Our extensive range of products in the fields of linear adjustment, profile technology, connecting and module technology are renowned and respected for their reliability and performance.

Linear products are used in almost every single area of automation and machine engineering. From simple adjustments that may be seldom right up to highly complex, highly precise and highly dynamic multi-axis systems. Every task is different and every task requires a technically sophisticated and cost-effective solution.

Blocan aluminium profiles are designed to save you time and money, as an alternative to fabrication. The flexibility, ease of assembly and large range of ancillary products that comes with this range offers the end user an attractive alternative solution for

machines, workbenches, guarding, in fact almost anything!

The R+K range of clamps from our connecting technology product line are available in plastic, cast aluminium, extruded aluminium and stainless steel. They can be used for a wide range of applications from low loads to very high demanding and dynamic loads and also offer corrosion and temperature resistance.

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Having trouble bonding, printing or coating? Tantec can help make things stick



Tantec's Plasma and Corona surface treatment equipment increases the 'surface energy' of a wide range of materials, as well as giving a super fine clean to the surface of many materials, including plastics, rubbers, composites, metals, glass and ceramics. This treatment 'activates' the surface of the material allowing adhesives, inks, sealants and other liquid coatings to bond to it more readily.

Plasma and Corona surface treatment isn't always widely known but it is used throughout a wide range of industries with applications including the treatment of high

end automotive interiors prior to bonding, treatment of high performance composite components in motorsport and aerospace prior to bonding, treatment of plastic packaging prior to printing or labelling, treatment of plastic syringe barrels prior to printing and treating medical devices to increase the wettability of the internal surfaces to improve liquid flow.

Unlike traditional surface treatment processes such as abrasion, flame or priming, Plasma and Corona is cleaner, more cost effective, operator and environmentally friendly and more repeatable ensuring more consistency across batches.

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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.

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.

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Wright brothers, Curtiss-Wright Surface Technologies has a long tradition of providing innovative solutions and building solid and trusted customer relationships.

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Protect your personnel with innovative PPE



Industrial Process News is proud to announce that JSP has been selected as our PPE Company of the Month.

JSP is Europe's leading independent manufacturer of industrial head protection and 'above the neck' Personal Protective Equipment (PPE), including a range of height safety equipment and traffic & site management products. Strongly committed to innovation, JSP has an in-house Research & Development team, state-of-the-art manufacturing, automated production lines and testing bases in seven factories over three continents. Using these well-established facilities, JSP has pushed safety product development to new levels, and an estimated 70 million people use JSP's products every day to protect themselves at home and at work.

Indeed, it is clear that JSP has a strong passion for improving health and safety for a wide array of industries, such as construction, civil engineering, automotive, steel, chemical, oil &



gas and many more. JSP ensures it listens closely to its end users, adapting products to give the results they need in the environment they face.

What's more, all of JSP's PPE can be made to measure. Its safety helmets, hearing products and eyewear can be customised according to individual specifications, using corporate logos and colour schemes, safety messages, personal names and identity systems. JSP also operates a BSI Kitemark™ scheme for products, which is the platinum standard for product quality.

This guarantees that every product JSP manufactures and sells is from a batch that has been controlled and tested to ensure it passes the relevant standard. Manufacturing under ISO9001 Quality Management System, the JSP brand is synonymous with Tested, Trusted and Traceable products. The JSP-CHECK™ SYSTEM also adds validation as a unique manufacturing barcode to give customers complete product traceability, by pinpointing the exact location, time and date of manufacture to the second.

Most recently, JSP released a range of new PPE innovations to offer even higher levels of performance for the industry. The EVO®VISTA™

Safety Helmets integrate fully retractable Optical Class 1 protective eyewear. The EVO®VISTAshield™ incorporates a faceshield, and the EVO®VISTAlens™ incorporates an overspec. Furthermore, fully adjustable pivot arms allow the shield and lens to be deployed outwards and over prescription spectacles, unlike similar systems that require helmet adjustment to fit. This helps to tackle any compatibility issues or lost eyewear on site.



In addition, the EVO®VISTA™Dualswitch™ Safety Helmets are the first helmets to incorporate eye protection in the form of a shield and lens (as above) and provide protection performance to both EN397 and EN12492 on one certificate. Flicking the switch changes the retention strength of the helmet's fully adjustable 4-point chinstrap to give conformity to either the

Construction Helmet EN397 standard or the Climbing Helmet EN12492 standard for working at height.

JSP has also released the JSP-GO™ RETAIL RANGE, a new selection of head, eye, hearing and respiratory protection using an icon-based communication tool via QR code that links to JSP's 'Guides Online' (www.jspgo.com) website. This is a multi-language platform filled with informative tables and demonstration videos to provide everything needed to aid the correct selection of PPE for individuals worldwide.



In respiratory technology, JSP has released new PressToCheck™ Compact Filters, low profile filters that offer very low breathing resistance and excellent compatibility when worn with other PPE. The ultra-lightweight design still offers the award-winning PressToCheck™ technology to check a safe face fit. When used with the JSP Force™8 half mask or Force™10 full face mask, the user can check their face fit by pressing both filters simultaneously, closing the internal mechanism, to stop air from entering them, and check the seal of the mask. This offers daily face fit reassurance every time the mask is put on, making it a true innovation in respiratory equipment.



JSP has also released the EVOGuard® range, which includes advanced Optical Class 1 Industrial Visors and an extensive range of Forestry Visors designed using the latest technology for improved light transmission and protection. This is complemented by JSP's specialised new SWISS ONE Safety® X Eyewear, a specialised range of eyewear with the highest standards of design and precision engineering. This range is both attractive and comfortable to wear, using unique technology to enable RX prescription by taking a 'selfie'.

Similar to its growing product range, JSP has expanded significantly over the last five years, opening new sales and marketing offices overseas as well as new manufacturing premises. This development will continue into the future, offering technical advice, training and education on the correct selection of PPE. It is crucial that people wear PPE from trusted brands to ensure product performance standards are achieved and they receive the correct level of protection. Thus, JSP is always engaging with end users to develop the latest innovative products that will help companies better protect their personnel.

Of course, the global demand for PPE has been unprecedented over the last six months, due to the COVID-19 pandemic. "At the start of this global crisis, JSP and partners reacted quickly to help provide necessary PPE and set up a direct route to supply and support the NHS and



frontline healthcare services, providing them with vital PPE supplies, respiratory support and services with a technical helpline and face fit training," explained Sarah Baker, Marketing Director.

"JSP and partners are proud to be supplying NHS Trusts with Force™8 half masks and Force™10 full face masks fitted with our award-winning PressToCheck™ P3 filters as well supporting them throughout this pandemic. These products deliver the highest levels of respiratory protection – both product performance and face fit.

"JSP would also like to say a massive thank you to the great efforts of our customers and partners who have supplied JSP PPE to frontline healthcare services, supplied essential industries including power generation, utilities, manufacturing, distribution, rail and transport, carrying out extensive training of JSP Products in many locations.



"To help assist with social distancing as people return to work, JSP has introduced some new innovative PPE products to help combat the spread of COVID-19, supporting our valued distribution network so that they can be supplied with the products they need to support their customers, end-users, and help keep the economy moving and stay safe.

"By responding quickly, JSP is managing to meet the large increase in demand for PPE, largely due to the wealth of experienced team members across the business and our robust, dynamic and adaptable manufacturing facilities in the UK. JSP is making further significant commitments to increase manufacturing capacity by further increasing robotic production lines and securing supply chain to ensure the future supply of PPE Products. JSP will continue to support you with technical advice and keep you updated with the COVID-19 support section on the JSP website."

To find out more information, see the details below.

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Leading UK manufacturer of bespoke power screws



Kingston Engineering is one of the UK's leading manufacturers of bespoke power screws. Based in Hull, the company offers a vast selection of materials and specifications designed to suit their clients' requirements. "We produce power transmission equipment used in a variety of industries, including aerospace, nuclear, medical, water, rail, and many more," explained Paul Bielby, Director.

With a history dating back to 1919, Kingston Engineering celebrated its 100-year anniversary last year, an admirable feat which proves the company's outstanding reputation in the industry. For over 60 years, Kingston Engineering has specialised in manufacturing right hand/left hand, single/multi-start, cut thread power transmission screws and nuts, all of which are adaptable for mechanical power transmission. These products also conform to the standards of British, European and American requirements and meet ISO 9001-2015 accreditation, as well as being thoroughly examined during the manufacturing process.



Working closely with both suppliers and end users to provide the best purpose-built screws possible, Kingston Engineering has customers throughout the UK and the US, offering one off prototypes to full batch manufacture. Kingston Engineering specialises in offering bespoke manufacturing services, addressing its customers' specifications to ensure their needs are always met. These services are informed by over 100 years combined experience between the company's directors, all of whom are committed to investing in Kingston Engineering's skilled workers, facilities and technologies to ensure continued success.

Certainly, Kingston Engineering is always engaging in plans to help the company become global leaders in screw / nut manufacturing. One recent investment was in a new Mitutoyo Euro M544 Measuring Machine, which has become invaluable in the company's inspection department. This allows Kingston Engineering to measure the physical geometrical characteristics of an object. The machine creates printed inspection reports and is controlled by an operator, with measurements designed by a probe attached to the third moving axis of the machine.

Additionally, Kingston Engineering invested in a Hi-Tech 450 AMC Turning Centre, the latest addition to its CNC Turning capacity. This one piece heavy duty cast iron construction is a major contribution to the company's turning capacity. All details are available on the website or why not give us a call for a chat about your requirements over a virtual coffee.

"We're very much looking forward to what the next 100 years will bring, as we focus on continued investment in our machinery and our people," Paul explained. "Engineering in general has been hit by the COVID-19 pandemic, but our work in the medical, water and machine refurbishment fields has enabled us to maintain a high level of production while adhering to social distancing guidelines. We'd like to thank our customers and suppliers for their continued support through these challenging times, and now we're focusing on seeing the company continue through the next

generations while upholding the strong name we have within the industry."

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

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PRECISION ENGINEERING SPECIALISTS

Virtual showcase for state-of-the-art positioning & motion control

With conferences and industry exhibitions currently on hold, Physik Instrumente (PI) has set up a virtual trade show that will inspire and inform anyone with precision positioning and motion control challenges, wherever they are in the world.

Each application-focused stand – covering everything from 3D printing or photonic alignment to industrial automation or in vitro diagnostics – demonstrates powerful PI solutions for higher throughput and accuracy, less downtime, scalable production, integration with existing systems and more. Whatever information researchers and technology leaders need, this is where they'll find the answers.

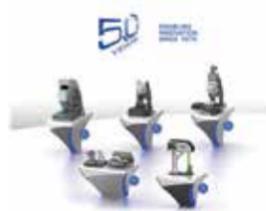
Two dynamic, virtual stands – including comprehensive product demos and ACS software walkthroughs – are already available.

The first of these is for laser material processing <https://bit.ly/2Veja8Q>, where visitors can discover how lasers can be used in many industrial applications – such as in the electronics and semiconductor industries – to optimise manufacturing procedures and ensure high quality production of components.

The second covers smart solutions for industrial automation <https://bit.ly/37Z4olo> that are designed to ensure sub-micrometre accuracy, exact

reproducibility and high throughput for positioning and motion tasks in assembly, semiconductor manufacturing, material processing and inspection systems.

More virtual trade stands are coming soon, contact PI at <https://bit.ly/3ev39TB> to find out more, and feel free to suggest an application field that's missing.



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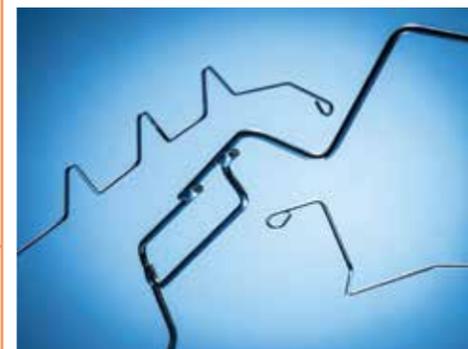
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EXCELLENCE IN FLUID TECHNOLOGY

Springing into action saves the day for automotive tier one



William Hughes has come to the aid of a leading automotive tier-one seat manufacturer; a rescue mission that was only made possible by the company's broad set of skills and advanced capabilities in the world of complex wire forms.

The order, which was for seat frames and trim wires, comprised a number of different complex parts, all of which would see use in five different vehicle types, including SUVs and saloons. In addition to bending and forming, several of the frames also required welding. The accuracy demands were such that engineers used 3D scanners and Vernier calipers to ensure the parts precisely matched the customer specifications.

"Although we had won the order a few months previously, and had turned round the prototype parts in just four weeks" explains George Cairns at William Hughes, "the customer hit a scheduling snag, which ended up with us having a very short time period in which to produce the first thousand pieces. These had to be delivered on time to ensure the product milestones were achieved".

Although other companies may have the capacity to produce the numbers required, very few possess the capabilities, skillset and knowledge that would enable such a complex and large design, test, manufacturing and delivery campaign to be achieved in such a short time.

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Laser cladding enhances life of high wear components



Machinery and mechanisms of all types will have certain components that are subject to high rates of wear in service. Typical examples might include the large machinery and vehicles used within quarries, construction equipment, excavators, mining equipment, tracked and military vehicles. These machines and vehicles operate in some of the harshest working environments imaginable. They can be continually exposed to any combination of moisture, heat, abrasion, vibration and even impact damage, which can mean high wear rates and subsequent failure. The unplanned downtime as a consequence of component failure results not only in loss of production, but also reduced profitability.

Laser cladding has proven to be a valuable process for both protecting components and extending their reliability and service life. The laser makes it possible to quickly and efficiently coat even large surface areas with powder deposit welding on the often high value components within these sectors that require repair or reconditioning. Unlike some alternative technologies, the localised and controlled heat affected zone produced by the laser does not impact the mechanical properties of the surrounding material. The laser cladding technology available from Bromsgrove-based TLM Laser is Alpha Laser's AL-TW, AL-FLAK and AL-ROCK laser systems. These systems use fiber lasers to deliver the high power (450 / 900 watts) required for laser powder deposition welding.

www.tlm-laser.com

Fimark Ltd

Fimark Ltd, one of the UK's longest established subcontract laser marking and engraving companies also provides spray painting of plastics, micro laser cutting and mould tool engraving and surface texturing.

Combining spray painting and laser etching Fimark make backlit buttons and fascias for the automotive and aerospace industries for driver and passenger controls. Careful control of paint thickness is required to successfully manufacture these components to prevent unwanted light leakage and to achieve consistent illumination.

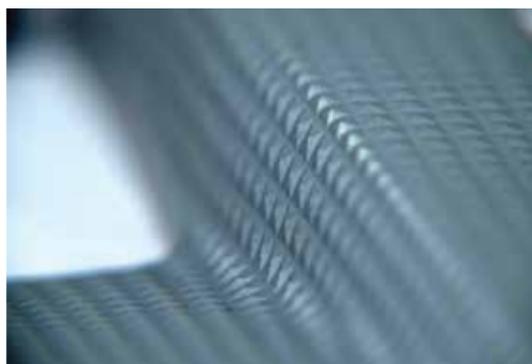
Micro laser cutting allows very fine work for the watch and jewellery industries. With a beam width substantially smaller than conventionally used in laser cutting features below 100 microns can be cut.

Laser texturing and engraving on complex geometries is

only possible with the latest 5-axis technology. This service is used for micro engraving and texturing of mould tools as an alternative to chemical etching and provides a fully repeatable and digital process.

Existing textures can be digitally scanned and reproduced, and even hydrophilic and hydrophobic textures can be created. When mould tools are textured with these technical surfaces the moulding can also be hydrophobic and this has benefits in many medical devices.

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Fimark provides advanced coatings and luxury and functional finishes for the automotive, aerospace and defence industries. The company's processes include technical spray painting, laser etching and 3D laser texturing.

Our painting and laser etching capabilities are used for the manufacture of backlit buttons and fascias for dashboards and driver controls. Laser surface texturing allows the tailoring and personalisation of interior pieces to the highest quality and the structuring of injection mould tools.

Our work can be found on a wide range of vehicles including aircraft interiors and we also make components for the watch and jewellery industries.

Fimark provides visual and technical quality allowing manufacturers to engage with their customers at the highest level.

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Water Management & Environmental News

That's one small step for an engineer, one giant leap for building services

Technological innovation for BIM-based technical insulation specification compliant with BS 5422.

BIM-aided (Building Information Modelling) design of HVAC and process industry installations has become standard for professionals specifiers throughout Europe. However, PAROC takes the management of a development project to a whole new level by introducing the first ever tool which enables intelligent, fully automated selection of the insulation solutions for the project, compliant with BS 5422.

The tool works as an extremely useful and easy to use plugin for Autodesk Revit®, a popular software for model-based

building designs and documentation. As opposed to other currently available solutions, the system overlay does not confine itself to merely adding solutions from the ready-made product libraries to 2D and 3D sheets.

Designing HVAC and process industry installations has probably never been so easy – from now on all it takes is only one click to automatically add proper insulation solutions and dimensions, in compliance with applicable technical requirements and regulations.

"Up until now, architects, specifiers and designers working with BIM had to spend a lot of time on each and every single

installation component, taking its diameter, type of material, temperature of the transported medium and a number of other important criteria into account" says John Watt, National Specification Manager HVAC Systems at Paroc Ltd. "In case of complex systems, what could have taken even a few hours until recently, is now almost as easy as snapping your fingers" he adds.

In mere seconds, the intelligent algorithm establishes and applies a complete insulation system that meets thermal conductivity requirements for central heating and hot water pipes, HVAC equipment and high temperature industrial installations. Of course, it is also possible to choose solutions



which exceed the technical requirements – all it takes is a few clicks to assign custom insulation parameters to all of the elements and import them to the geometrical model of installation.

Contact
www.paroc.co.uk

Safeguard your AD plant from the 5 hidden causes of CHP shutdown

Today's CHP engines are sophisticated pieces of kit that operate with precise tolerances. The IGS-LOG software, which comes as standard with the Motortech open access control panel, monitors up to 25 parameters, including these five hidden causes of AD engine shutdown.



1. Gas pressure
 Potential reasons for drops in gas pressure include flaring or a blockage in the gas line or filter. Monitoring this helps operators better identify the cause of an unexpected shutdown and take preventative action to protect their CHP.

2. Gas quality
 By monitoring gas composition, operators can spot any corresponding trends in engine performance and alter their feedstock as necessary, before their CHP becomes adversely affected.

3. Emissions
 Operating without emission analysis is like a chef not tasting their food. It warns if an engine is running rich or lean so operators can address any issues before they present a serious risk.

4. Water pressure
 Constant analysis of water pressure helps to avoid the peaks and troughs that can cause performance issues and promotes smooth and reliable operation.

5. Kilovolts
 Live monitoring will highlight a rise in kilovolts or erratic KV readings, warning of a potential issue with the ignition system or spark plugs.

james.thompson@gen-c.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.

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ESAB Cryo-Shield Ni9 Flux Cored Wire

ESAB Welding & Cutting Products has globally introduced Cryo-Shield Ni9, a Ni Cr Mo alloy flux cored wire used for all-position welding of 9% Ni steel LNG fuel and storage tanks with 100% CO₂ shielding gas. This modified 625-type wire offers excellent crack resistance and is superior to conventional NiCrMo-3 wires. Mechanical properties are similar to Hastelloy ENiMo-13 flux cored wires but at lower purchase price because of its modified formula. Further, because it uses 100% CO₂ shielding gas instead of an argon blend, it lowers operating cost. The wire carries approvals from the ABS, BV, DNV GL, KR, LR and CCS classification societies.

"We developed Cyro-Shield Ni9 in response to ship propulsion systems shifting from heavy fuel oil to LNG fuel to reduce oxide emissions," says Neil Farrow, Global Product Manager – Cored Wires, ESAB. "This wire also meets the needs of LNG storage tank fabricators and other 9% Ni steel applications. In



benchmark tests against leading 625-alloy wires, Cryo-Shield Ni9 provided superior crack-resistance tolerance, which is especially critical for root welding. Customer field tests with 100% CO₂ shielding gas also confirmed better tolerance to porosity formation, wet-out for a flatter bead crown and slag release compared to conventional 625-alloy wires."

For more information, visit: www.esab.com or call 01992 768515.

High-performance, multi-process Welding systems for extreme environments

For those who need enhanced multi-process welding capabilities and portability in harsh industrial environments, ESAB Welding & Cutting Products has introduced its Aristo® 500ix inverter-based welding power source and Robust Feed Pulse and Robust Feed U6 wire feed systems.

The Aristo 500ix provides outputs for MIG/MAG, flux cored, MMA and TIG welding, offering maximum output of 500A/39V at 60 percent duty cycle and a 100 percent duty cycle rating at 400A/39V. When paired with Robust Feed Pulse or U6, users can weld with solid wire up to 2.0 mm and cored wire up to 2.4 mm.

These feeders offer a 50 mm dinse terminal on the back for connecting an MMA electrode holder, while the Robust Feed U6 also enables gouging from the wire feeder.

"Many fabricators want the benefits of pulsed MIG welding and advanced wire control, but they hesitate because of harsh welding conditions," says Arne Lagerkvist, Global Product Manager, Heavy Industry Welding Equipment, ESAB.



"The Aristo 500ix and Robust Feed system puts those fears to rest. They are fiercely tested and ready for any job site where fabricators want to reach the next level of productivity improvements or help less experienced welders produce better results."

For more information, visit: www.esab.com or call 01992 768515.

Business & Facilities Management News



PatWorld
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PatWorld is an innovative and cost effective patent search tool developed by specialists to meet the needs of industry.

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Having presentable, well-structured data is a priority and the user interface has been developed

to maximise the display of data, enabling users to efficiently navigate and analyse results. PatWorld will also feature a machine translation tool.

Users can record a history of their searching and store these in separate project folders that can be accessed over multiple accounts for collaborative working.

Within project folders, users can rate and comment on results for future reference. A report generator tool will allow users to quickly generate customisable professional reports ensuring that users can present their data as efficiently as possible.



PatWorld offers flexible payment options (day/month/annual/corporate), giving users the freedom to manage their subscriptions according to their search needs.

PatWorld is taking steps towards revolutionising patent searching, providing flexible access to professional search tools through a simple, intuitive user interface.

Contact www.patworld.com

EXITING LOCKDOWN: Latest technology helping staff feel safer as businesses get up & running again

Research shows that large numbers of the public are still wary about venturing out without a lot of persuasion that they'll be safe, even to return to much-needed work. It's a challenge for facilities managers across the country to reassure people, safeguard their buildings and protect, as far as is possible, those who work in and visit them.

One proven solution is the new Body Temperature Detection Cameras, now available from Clearway, based in Dartford, Kent. They offer organisations across the spectrum a way to monitor people without physical contact, and thereby reduce the risk of viral spread in workplaces, transport hubs, retail centres, airports and other settings.

These small thermal cameras detect elevated body temperature which may

indicate the presence of a fever. With technology offering accuracy of down to $\pm 0.3^\circ$, it can take such a camera less than a second to detect someone's temperature, thus allowing large numbers of people to be screened at the same time whilst on the move, i.e. through a turnstile or entry gate/doors. As people pass one of these cameras, built-in audio will trigger an alarm to notify operators immediately when a person with an elevated body temperature is detected, enabling their admission to a building or site to be temporarily prevented until their temperature can be checked again personally with a manual thermometer.

Clearway is currently seeing a surge in interest in these easily installed cameras and believes they are one of the simplest and best ways for



employers, H&S and facilities managers to reassure staff, visitors and the public, in these uncertain times, that their workplace, travel or retail destination is being protected as far as is possible. It's also going to assist the hospitality and leisure trade to get back on its feet when venues are allowed to start opening up again. More details of the body temperature detection systems can be found at www.clearway.co.uk/bodytemp

T 01322 479652
enquiries@clearway.co.uk

Actuated Solutions improves on next generation electric quarter turn actuator with failsafe option



The UK's leading independent provider of valve automation products, Actuated Solutions, has announced the launch of a battery back-up option to its hugely popular HQ-005 electric quarter turn actuator.

Failsafe functionality was a feature previously only available on much larger actuators, but the HQ-005 offers this highly desirable option, remarkably, within the same footprint as its standard housing. Failsafe is achieved with a set of high-quality lithium batteries, which are constantly trickle charged, ensuring optimum performance anytime there's a power failure. The actuators can be easily set to fail closed or fail open and a charge-status LED indicates the battery health.

The innovative HQ-005 was launched in 2017 and is one of the most advanced general-purpose actuators on the market. Key innovations of the HQ-005 include a high visibility beacon, LED status indicators, 4 off limit switches, anti-condensation heater, manual override hand wheel and unique direct mounting system (covering F3, F4, F5, and F7) offering greater flexibility as well as functionality.

A brushless motor is used for increased reliability and is supplied within a small compact IP67 waterproof aluminium housing which is hard-anodised and powder coated. What's more, a built-in electronic torque limiter will automatically cut the power, if required, to prevent damage to the motor. The 50NM actuator is available in either single phase or 24VAC/DC and can also be supplied with a positioner card for modulating service. These features, as well as an attractive price point, made the HQ-005 an instant hit from its launch - as Actuated Solutions' Managing Director, Paul Slaughter, confirms:

"The HQ-005 continues to push the boundaries of what is possible to achieve with an actuator of this size. Traditionally, when failsafe is required on small bore pipe you would use a solenoid valve, but these can be expensive and unreliable, whereas our battery powered HQ-005 offers enhanced functionality without prohibitive costs. In fact, this demand for higher spec without compromising affordability is a growing trend we've continued to satisfy and the HQ-005 with battery back-up is the first of many new and exciting products we are launching in the 2020."

Available in Europe exclusively from Actuated Solutions, the HQ-005 is just one of a large range of electric and pneumatic actuators and associated accessories available from stock.

For more information please contact your local independent distributor, or visit www.excellence-in-actuation.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





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Situated in the heart of Nottinghamshire's rural outpost and next-door to the famous Southwell Racecourse is Energy Manor, home of Energy Chemical & Equipment Company; Designers, Manufacturers and Suppliers of Energy Ram and Diaphragm Pumps for the Waste Water and Process Industries. Established since 1984, Energy Pumps excel as the preferred Sewage Pumps for the Waste Water Industries.

The heavy-duty, industrial Energy Ram-Piston and Diaphragm Pumps cope with a range of applications including the automatic Pump-desludging of Humus in Primary settlement tanks; Digester Feed; Long-Distance Sludge Transfer; RBC Feed and De-Sludging; Inlet Dosing; Raw Sewage Transfer; Filter-Press Feeds. Energy Pumps also Pump Silt in Quarries; Pulp in Paper Mills; Effluent in the Farming industry; plus Bone, Blood and Offal waste in Abattoirs throughout the United Kingdom.

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T&D offers versatile data loggers adaptable for the individual needs of laboratories, the medical and forensic sectors. The devices are designed for high-performance logging of different parameters. The data loggers in the RTR-500 family support users who need a wireless logging option, as well as maximum flexibility. The RTR-500 loggers can measure temperature, humidity, mA, voltage, pulse, UV, illuminance and CO₂.

By simultaneously connecting up to 640 data loggers of the RTR-500 series to one base station via WLAN RTR-500AW, Wired LAN RTR-500NW, USB RTR-500 or 3G Mobile Communication RTR-500MBS-A, large areas and several laboratories can be monitored at the same time. The free of charge T&D Graph allows users to read larger numbers of recorded data files in the same graph, merge data, view and save data in multiple ways, and use more effective tools for data management and analysis.

The TR4-series is particularly suited to laboratories and the transport of medical goods. The small devices keep track of

the temperature of the environment or cold storage areas, which is essential for preserving laboratory specimens such as blood, fluids or tissue, as well as experimental environments. The rugged TR41 is IP67-standard waterproof and operates in a wide range of temperatures. With a tablet or smartphone, the recorded data can be easily checked at any time via Bluetooth with the T&D ThermoRec and ThermoStorage Apps.

T&D Corporation has extended the original TR7wf series with a Bluetooth feature designed to improve connectivity between data loggers and mobile devices. T&D's new series TR-7wb is ideal for temperature and humidity monitoring, and designed for those who require a broad range of measurement tasks. No computer is needed in order to use the new TR-7wb series on site, as it can be set up via Bluetooth and with the T&D Thermo App on mobile devices, both iOS and Android.

Contact
www.tandd.com



Air pollutants as harmful as cigarette smoke

A study published in the Journal of the American Medical Association has found that long-term exposure to poor air quality can have the same damaging effect as smoking 20 cigarettes a day, with air pollution shown to be more dangerous than passive smoking.



Many employees are exposed to poor air quality on a regular basis and employers are often unaware of the risks and what they can do to manage them. A new generation of air quality monitoring equipment is now available for measuring the levels of common air pollutants in the immediate areas where staff are working.

Employees working close to areas of high road traffic, particularly with poor air circulation, are especially vulnerable to the effects of pollution. As well as being trapped indoors or brought in through ventilation systems, pollutants can also build up in outdoor spaces, particularly in cities with high buildings, leading to exposure levels which may exceed limits set by the World Health Organisation (WHO).

Previously, air quality has been likened to passive smoking. The International Agency for Research on Cancer (IARC) determined in 2013 that air pollution is more dangerous than passive smoking, and was now the leading cause of cancer.

Teams responsible for protecting staff from exposure to hazards can now understand exposure in relevant locations by installing compact air quality monitoring equipment designed to continuously measure pollution levels in ambient air.

AQMesh pods are small, wireless units which can be mounted on a lamp post, fencing, wall or a similar mounting point close to where staff are breathing potentially polluted air, both indoors and outdoors. Air quality readings are secure and confidential, accessed online by authorised personnel only.

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The SE+CO is designed to be the first in a new range of sensors from DD-Scientific and will be followed shortly by sensors optimised for other toxic gas dangers. If you would like to learn more about this product or any of the wide range of gas sensors now provided by DD-Scientific, please don't hesitate to contact us at: sales@ddscientific.com

DD-Scientific is one of the fastest growing sensor manufacturers worldwide and our success is driven by our commitment to high performance products, provided with real quality coupled with competitive pricing and world class integration and technical support.

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Southern Manufacturing & Electronics 2020

Southern Manufacturing & Electronics took place on 11 – 13 February 2020 at Farnborough International Conference and Exhibition Centre.

As one of the most important and popular engineering shows in the UK calendar, Southern Manufacturing & Electronics features a diverse range of suppliers every year, rising above any particular sector of the engineering industry. Attracting a number of big-name manufacturers, it is also an extremely accessible show for the rich eco-system of engineering SMEs operating across the UK and continental Europe. This not only gives the show its unique character, but also makes it one of the most effective shows for addressing multiple sourcing issues in a time-efficient way.

Without a doubt, Southern Manufacturing & Electronics gives companies a fantastic opportunity to present their products and services to thousands of key industry buyers and specifiers. Visitors also benefit from a complementary blend of technical and business seminars, covering a wide range of issues



facing manufacturing businesses today.

Southern Manufacturing & Electronics will return to Farnborough on 20 – 22 April 2021.

This is our pick of the best exhibitors from this year's show, listed here in alphabetical order: Beam Ltd, BIZ Engineering, CCL Industries, Delta Impact, FLEXIX, IEW, INGUN, Inovo Robotics, Solid Ground Curing, The Sempre Group and Trojan Electronics. Further details can be found on this page and the next page.

www.industrysouth.co.uk

INGUN

INGUN has operated its own subsidiary in the UK since 1994. With almost 50 years as the leading supplier of test equipment, INGUN provides customers worldwide with high quality test probes, test fixtures and accessories. With focus on Made in Germany quality, INGUN produces exclusively at the headquarters in Constance, Southern Germany.

With their comprehensive expertise and commitment to quality, INGUN truly is a Partner for Future Technology. They support customers from a wide variety of industries, such as automotive engineering, aviation & aerospace, telecommunications including 5G, and medical technology, in the reliable quality testing of their electronic products. As an experienced manufacturer and development partner, INGUN enables their customers to ensure excellent quality and reliable contacting.

Thanks to an outstanding portfolio of standard products and customising options to meet specific customer needs, their service is second to none.

With over 40 of its own locations as well as numerous partnerships worldwide, the INGUN Group has a global sales and service structure in over 65 countries. More than 400 employees ensure that the needs of our customers are optimally met. INGUN is a true one-stop shop for test solutions for any application between the test point and test system.

www.ingun.com



IEW

IEW is incredibly proud to announce that we have reached a huge milestone on the 29th June 2020 the company will celebrate 40 years in business. Firstly we would like to take this opportunity to thank each and everyone who has been part of the journey.

The Company has grown significantly since being established in 1980 to become a highly experienced subcontract electronic manufacturer building bespoke complex Electrical panels, Cables, PLC controllers and PCB's to customers specification. Employing over 50 people in a large modern unit based on Kembrey Park, Swindon.

In February of this year Duncan Game took ownership of the business heralding an exciting new phase of IEW. The plan is to continue to offer excellence in service, quality and on time deliveries but also, going forward, developing and enhancing the services we offer with a solution orientated focus at the centre of everything we do.

Duncan says "It is a good opportunity for us to regroup and get back to the basics of delighting the customer and helping them to manufacture their technically advance machines so that they can focus on developing the next generation technology of tomorrow"



The future is looking exciting for us, we are developing a new 5 year strategy, rolling out an employee engagement programme, new software and investing in new plant and machinery and test equipment. We would like to convey our heartfelt thanks and acknowledgement to our most important asset, our employees, for making the first 40 years such a success.

T 01793 694033
www.iew.co.uk



The UK's leading supplier of high performance labels and membrane switches



With over 40 year's industry experience, CCL Design UK (part of CCL Industries) has three manufacturing sites in the UK and an unprecedented range of capabilities.

We design, develop and manufacture our own durable materials in-house, allowing rapid prototyping, highly customised solutions, great service and optimised costs.

Exceptional printing capability with flexographic, rotary and flatbed screen, large format, small footprint and proprietary reel to reel durable digital solutions. Conversion capability includes auto inspection and rotary, flatbed and digital cutting.

The Key Benefits offered by CCL are:

- Our own materials designed, developed and manufactured by our Materials Science team
- Materials combine bespoke topcoats, adhesives, films and liners
- Products that meet the requirements of UL, cUL and CSA standards for marking and labelling
- Wide range of product solutions including brand protection, regulatory, branding, paint protection, printed electronics and industrial graphics labels
- Unparalleled Digital print durability levels unique to CCL Design
- Certification includes – ISO9001 / IATF16949 / ISO14001 / ISO27001
- Superior product performance and service with cost effective pricing

Contact
designuksales@cclind.com
www.ccldesignelectronics.com



Beam Ltd



We had a great time at the, well attended, Southern Manufacturing and Electronics exhibition 2020 presenting our new product and our engineering design services. We find shows are an ideal opportunity to showcase new products and services as well as just talking to people.

There was great interest in our new our new BMeasure-125i data acquisition, logging and control IOT product which has led onto a series of sales. This is a flexible and powerful system for data capture, data logging and control. We like to think of it as a Swiss army knife of data acquisition and data logging. It is a small, low power, unit that has 8 medium speed channels of high resolution analogue signal capture for all types of sensors including electrical signals, temperature, vibration, pressure etc.

Application areas include scientific/engineering research, industrial measurements, vibration measurements and remote sensing. The unit has 8 synchronously sampled analogue inputs (24 bit, 128 ksp/s), with 8 digital IO channels, two analogue outputs, 2 relays and 2 switch inputs. Communication interfaces supported are USB, Ethernet (with PoE), RS485 and WiFi.

The system is finding innovative roles in production line testing and industrial control as well as research.

Contact
www.beam.ltd.uk

Solid Ground Curing

Solid ground curing (SGC) is a dynamic company offering tailored rapid manufacturing solutions to many market sectors using additive technologies; one of our specialties is wax patterns for investment and lost wax casting.



Our team has many years of experience working closely with the jewellery market, offering high precision wax printers that allow for bespoke and mass production of patterns with a superior surface finish and sharp crisp edges. Our latest product line gives us the opportunity to go beyond the small intricate pattern market and offer the same high-quality patterns to foundering and casting houses.

We are the exclusive reseller of the latest 3D Systems 2500IC (Investment Casting). These machines integrate seamlessly in a casting workflow as a wax patterns production tool.

Go to www.mjp2500.com to learn more about the 2500 series

We also offer other manufacturing solutions from production grade parts to bio compatible material and high temperature resistance parts.

Using the 3D Systems Figure 4 machine we can tailor a production solution to many applications, including flexible and elastic parts, high quality patterns for silicon moulding, production grade UV stable parts and many more.

Go to www.figure-4.com to learn about the figure 4 machine.



Solid Ground Curing

Figure 4 Factory Solutions

Solid ground curing (SGC) is a dynamic company offering tailored rapid manufacturing solutions

Productive and cost-effective digital manufacturing solutions for production environments

Making 3D production real with scalable and modular factory solutions

www.figure-4.com



Begin your journey to automation with Inovo Robotics



Inovo Robotics manufactures a modular robot arm, with a range of modules that allow the end user to configure a robotic capable of performing a variety of repetitive tasks in manufacturing and research applications, with the mission to make capable and versatile robotics accessible to all. Many growing businesses encounter problems in automating repetitive, hazardous or precise tasks, and these are the challenges Inovo Robotics is working to address.

The company's range of plug and play modular components creates an affordable and capable system for medium and batch manufacturing processes. This can be easily modified to suit individual needs, and Inovo Robotics' intuitive software guides users through the configuration, even if they don't have any previous experience of

working with robotics.

"There are a number of cobots on the market at the moment, but unlike these existing systems, our product is modular," explained Henry Wood, Founder. "This means that different sections of the arm can be plugged together in different combinations to optimise the reach and payload for a specific task."

Indeed, with robots which have set sizes to choose from, it can be difficult to move the arm to a different process once the original project is over, as you may need a robot with a different reach, payload or footprint. With Inovo Robotics' system, different sections can be disconnected and longer sections added in or removed to extend or reduce the robot's size. This allows increased flexibility, so the same robot can be repurposed and moved between different batch processes as needed, rather than having to invest in multiple robots of different sizes when projects change.

"Seeing that there is increasing interest in

how companies can reduce costs and improve productivity and safety for workers in smaller volume manufacturing, the need to use automation here is clear. However, it's been very slow to start, and we believe our modular robotic components can help facilitate this movement.

"Also, with the restrictions brought about by COVID-19, manufacturing companies are looking for ways to adhere to social distancing guidelines. There are many situations where workers have to stand closely next to each other, but by integrating robots and automation into processes, it can help remove the need for close human contact," Henry explained.

If you would like to find out how Inovo Robotics can help you begin your automation journey, head to the website or get in touch using the contact details below.

Contact
info@inovorobotics.com
www.inovorobotics.com



Join the 4.0 Quality Revolution with The Sempre Group

Here Mike John, managing director of industrial metrology specialist, The Sempre Group, explains how the company can help manufacturers on their Quality 4.0 journey.

A willingness to adopt new technology is critical to driving British manufacturing productivity. Industry 4.0 encompasses a data-driven, digital approach to quality, where technology can integrate data from fragmented sources, reduce error, help with decision making and improve productivity.

A model for Quality 4.0

We simplify digital quality management integration into four stages: integrate, automate, connect and comply.

The first step is integrating inspection technology with automation equipment. Next, connecting the systems with software, to enable

industry standard data management. For example, a geometric dimensioning and tolerancing (GD&T) drawing can be auto-ballooned with HighQA software to tell a Micro Vu Optical CMM what is being measured. A cobot can feed the parts for measurement, with everything connected by Sempre Connect, so reports are generated automatically.

Quality 4.0 allows a factory-wide data collection network, which gives manufacturers access to real-time results to detect trends, take corrective actions and make the best use of resources.

The Sempre Group provides everything needed to implement Quality 4.0 at all stages of the product lifecycle.

Contact
T +44 (0)1452 632712
www.thesempregroup.com



Trojan gears up for box-build partner of choice

South-Wales based Trojan Electronics is expecting to double throughput at its contract electronics manufacturing (CEM) division after experiencing growth across the entire business. Trojan Electronics, which provides manufacturing services to several sectors across the UK, says the plans will see renewed emphasis on its box-build activities.

David O'Keeffe, General Manager, explained: "Demand has increased for several of our services over the past few months.

"The CEM division forms a core element of our strategic growth plans and although we will be looking at overall growth, box-build is a fundamental element of ensuring that we provide the best overall value solution to our customers."

To act like a true extension of the customer's organisation, Trojan Electronics has adopted the necessary operational and industry best practice frameworks including ISO9001 and ISO14001. The company further uses proactive advanced quality planning tools and techniques to



achieve delivery of safe, quality and reliable products, on time and in full at competitive cost. These provide customers with a highly flexible, customised offering to meet their changing requirements.

With sufficient financial strength, Trojan Electronics can offer customers a sustainable partnership - especially important in the current climate.

markthomas@trojanemail.com

Precision engineering since 1816

BIZ Engineering Ltd has a proven capability, built up over the past two centuries, manufacturing complex sheet metal fabrications and welded assemblies. Formerly 'Builders Iron & Zincwork' (BIZ) has a wealth of experience and expertise in complex metal fabrication with a wide range of applications from the construction sector through to food conveyor systems. BIZ is a family operated business that prides itself on taking a

personal interest in our customers' requirements.

BIZ continues to invest in the latest engineering technology to ensure the highest quality and widest specification of product are available to our customers. Our company processes are structured to provide quality and traceability. We manage projects from initial design concept right through to manufacture of prototypes, batch or high-volume quantities. BIZ can also combine various subcontract supply chains to reduce the burden on our clients having to liaise with multiple companies. We understand the importance of on time deliveries and being open and honest with our customers.

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

Contact
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www.bizengineering.com



One stop solution for printed circuit boards

Over the last 25 years Delta Impact have been a leading supplier of PCBs into the UK market. So, what's changed?

Joining the Rebound Group in 2008 provided a platform to trade on a global scale. The benefits of being part of a dynamic group with annual sales of £125M, over 300 staff in 32 offices world-wide are vast.

Today we not only continue to support our long term customers in traditional high reliability sectors such as Fire & Security, Automotive, Rail and Medical, but have achieved significant

growth in new technology markets such as EV, Smart Energy and various IOT applications such as Home Automation, through a now global customer base across Europe, Asia and the U.S.

Quality, speed, and flexibility of service are the bedrock of our success, and we strive to improve continuously. Over the last 2 years expansion of the Group's Asia warehouse and logistics hub in Hong Kong, with a significant investment in product testing capabilities, and a brand new warehouse in Poland to support existing and new customers in

Central and Eastern Europe are two key aspects of our growth plan to enhance our supply chain management and logistics infrastructure.

Change is certain, it is critical to our mutual success moving forwards. Get in touch with us to share your vision: enquiries@deltaimpact.co.uk

www.deltaimpact.com/services/printed-circuit-boards/



FLEXIX

FLEXIX manufactures and sells worldwide a wide range of INJECTION and EXTRUSION - RUBBER, ELASTOMER and RUBBER-METAL-PLASTIC Parts and Assemblies to a variety of companies in the Automotive, Rail, Transport, Construction, Power, Marine and Medical markets.

Services include Development of products and materials, mixtures and processes through to production and logistics, from prototype to auto assembly of high volume products.

With extensive in house design, formulation, tooling support, testing and logistics we are a valued supplier to OEMs and Tier 1 / 2 companies in many sectors. Materials FLEXIX develops and processes include, NR, SBR,



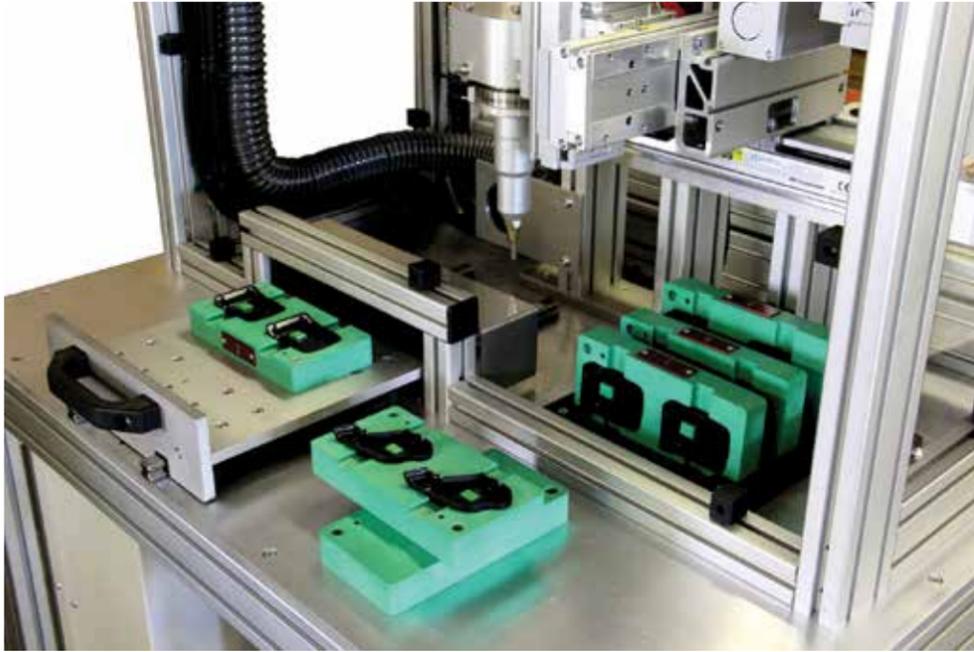
EPDM, NBR/HNBR, ECO, AEM, ACM, VMQ/Silicone, FKM/FPM etc.

With over 50 years experience we are a valued supplier partner, bringing short reaction times, efficiency, lower production costs coupled with a team renown for customer service

Products produced include suspension and shock absorbing parts, parts for noise reduction, air, fluid and clean air ducting, supports for transmissions and links, parts to regulate fluid and gas flow, seals, vibration reducing parts, dampeners, chemical and fuel resistant parts, extreme temperature parts, flame resistant parts, pressure resistant parts, all produced to exacting standards to TS and ISO quality approved standards.

Contact: Peter Rawson
T 01984 629089
M 07788 975834
peter.rawson@flexix.com
www.flexix.com

TF Automation design New Plasma Treat Machines for Automotive Client



TF Automation were commissioned by Kostal to design and build two plasma treat machines to address the increase in demand for cleaning new automotive switch products.

Kostal commissioned TF Automation to design two identical plasma treat machines to clean the surfaces of a switch assembly. Under the touch sensitive switch or button there is a capacitive foil and to ensure good performance the bonding between the switch and foil is critical with no moisture or air bubbles. To prepare the switch for capacitive foil bonding, the plastic elements required to be plasma-cleaned to remove any moisture and impurities.



Plasma pre-treatment is the key enabler technology for microfine cleaning, surface activation and plasma coating of nearly all kinds of materials. Conventional industrial pre-treatment methods are being replaced by plasma technology to make processes more effective and environmentally friendly.

TF Automation manufactured the two Plasma Treat Machines to automatically clean and prepare the



closed. The drawer is automatically locked which seals the plasma cleaning area and protects the operator. The plasma cleaning of both switches is carried out, allowing the operator to perform other tasks, as required. Once cleaning is complete, the operator then removes the switches and repeats the operation.



The change-over from one variant to another is simple with quick change nests selected from the menu on the HMI screen. The nests are fully poka-yoked sensed if variants are selected in error, the machine prompts the operator.

The plasma head is mounted on to a 3-axis servo cartesian gantry and when the operator chooses



a variant on the HMI, the correct plasma path is automatically selected. The plasma jet is guided with a defined speed and distance over the surface of the component prior to bonding. As the jet rotates, the plasma provides uniform treatment over a wider area than a non-rotational jet. The treatment is made by a potential-free plasma flume that exits the nozzle at an angle.

Tony Hubbert, MD at TF Automation, comments, "TF Automation have worked with Kostal for nearly ten years now and built numerous process automation an testing machines, however this was the first plasm treat machine requirement.". He adds, "We see growth in general in the market for plasma treat machines as the technology can be applied across numerous industries."

To find out more about plasma treatment or to discuss your next automation project with our design team, contact us on 01274 308005, email us at info@tfautomation.co.uk or visit our website www.tfautomation.co.uk.



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The Responsive People In Motion Control

Hub of information, resources and support for the Adhesives & Sealants Industry

With a plethora of history dating back to its inception in 1983, BASA has excelled in its mission to become an umbrella organisation for UK and Ireland adhesive and sealant manufacturers. "In 1983 BASA was set up to collect limited statistics relating to adhesives & sealants, but kept it confidential to members. The main emphasis was and continues to be on technical and legislative matters and on promoting awareness of the industry and

technology." Lorna Williams, Executive Office and Secretary General.

BASA (The British Adhesives & Sealants Association) was formed in November 1983 from the merging of British Adhesives manufacturers Association and the Sealant Manufacturers Conference. Created with the aim to support its members by promoting and representing the industry; BASA provides guidance on technical and compliance issues and creates a

platform for networking opportunities for members to support each other with their services.

BASA is the voice of the adhesives and sealants industry's and is an information source for manufacturers and suppliers. BASA is now Europe's only independent National trade body which is solely dedicated to the interests of the adhesives and sealants industry. The association advocates on behalf of its members and liaises with Government



Drives, Controls & Automation News



Motor testing at its best

MTR105
Rotating Machine Tester

The new Megger Baker MTR105 hand-held static motor tester is designed for performing multifunctional tests on motors.

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regarding legislation and keeps Members well informed of UK, EU and International proposals and initiatives.

Maintaining a growing portfolio of members, BASA members are UK manufacturers of adhesives, sealants and other construction products, and the related supply chain, such as raw material suppliers, equipment suppliers, test houses, other service suppliers. "We also have interaction with government, other trade bodies, NGO's, and potential users of products, although we are set up for members not to provide guidance to users." Lorna stated.

With the growing concerns around the environment and using sustainable products and raw materials, BASA is dedicated to helping reduce toxic chemical usage and educate the public on the industry's drive for safer products with less solvent. "Our member's products have been developed to minimise resource use, enable light weighting, add to durability and safety of products, and strive to formulate on the safest possible chemistry, minimising waste and water usage."



Lorna continued, "Our members have worked hard to minimise the use of more hazardous chemicals and to ensure that they develop safe to use products. We have particularly focussed on reducing non-essential solvent use."

In terms of future plans, BASA is continuing to strengthen its growing portfolio of members and hopes to reach more potential members. A particular focus for the company, BASA is currently looking at ways to support its member through Brexit and help them to navigate potential new legislations.

Lorna told us that, "Our priorities this year are to help members navigate Covid-19 and then to focus on how the EU exit will impact their business after the end of the implementation period. We will be looking at considerations such as tariffs, rules of origin and UK/EU regulations etc. We are active in the discussions regarding new UK chemicals regulation, which will have significant cost impacts to UK manufacturers, who will become importers and not downstream users from 1st January 2021."

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

T 0330 223 3290
www.basa.uk.com



Subsea Expo 2020



Subsea Expo 2020 took place on 11 – 13 February 2020 at P&J Live, Aberdeen.

This year's event was the biggest in its 15-year history, and focused on exploiting the 'Blue Economy', the energy transition and cross-sector collaboration to capitalise on emerging opportunities.

Over 6,600 people from the subsea supply chain attended, with visitors from Europe, Asia, the Americas, Africa and the Middle-East. Almost 200 exhibitors showcased the latest technology and services from across the whole subsea supply chain.

The event also featured a programme of 70 speakers

for conference sessions, which covered a variety of topics including cables, inspections, marginal developments, innovation and late life extension with presentations from Wood, Shell, National Oilwell Varco, the Scottish Aquaculture Innovation Centre, i-Tech 7, Xodus Group, Cellula Robotics and Ashtead Technology.

This year's event was certainly one of the best in the show's history, welcoming its largest delegation of international visitors, which underlines the demand for and interest in UK expertise and technology, and reinforces the industry's world-leading position.

The next event will return to P&J Live, Aberdeen, on 23 – 25 February 2021.

This is our pick of the best exhibitors from this year's show, listed here in alphabetical order: Aleron Group, Atlas Copco Rental, Flow Subsea Ltd, Fort William UTC Ltd, Oldham Engineering Ltd, SENSYS, SFC (Europe) Ltd, T.D. Williamson and The Society for Underwater Technology. Further details can be found on this page and the next page.

www.subseaexpo.com

Aleron Subsea launches flexible, adaptable and configurable MultiROV

Part of the Aleron Group, Aleron Subsea recently launched the new MultiROV system at the Subsea Expo in February 2020, adding to its existing AuxROV and TrackROV systems.

The MultiROV has been designed to provide the operator with a flexible solution to subsea remote operations. Throughout the design process, the focus was on making the vehicle simple to operate with an advanced control system and 4k video wall display, combined with leading performance, reliability and ease of maintenance. The MultiROV can be configured to meet the



most demanding operational requirements, featuring ROV Mode, AuxROV Mode and TrackROV Mode.

Another of Aleron Group's companies, ROVQUIP, also featured at the Subsea Expo, showcasing its range of subsea tooling solutions for purchase and rental. Informed by decades of experience in subsea

intervention, ROVQUIP offers clients responsive, efficient, flexible, and fit for purpose subsea tooling solutions.

As well as its own range of ROV tooling and components, ROVQUIP can also design and build custom ROV tooling solutions in house, adapting to clients' project requirements as needed to ensure they find the right solution.

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

T +44 (0) 1330 861704
www.aleron-group.com

Atlas Copco Rental

With Atlas Copco Rental, you never get "just the machine." With extensive expertise in the Oil & Gas industry our experts can design and manage safe, reliable, cost-effective, efficient Temporary Solutions that match unique industry-specific demands. From upstream, midstream, to downstream, as well as industry drilling and offshore applications.

Our fleet consists of oil-free or oil-lubricated compressed air at medium or high pressure, to power modules, steam solutions and nitrogen spreads. As well as unique equipment like our Water Jetting Unit and BlastAir.

For short- or long-term demand. Planned contingencies or unexpected emergencies. Atlas Copco Rental equipment is designed, manufactured, and tested to comply with ISO-1217 regulations, and built with API specifications in mind. In addition, we can include DNV crash frames if need be. Triple ISO certification, an industry first, by Lloyd's Register Quality Assurance underlines that commitment.



With increasingly stricter governmental regulations regarding emissions, as well as your own ambitious sustainability goals, your environmental footprint is increasingly important and monitored. For years, Atlas Copco Rental has invested in efficient Stage V diesel-driven solutions, as well as sustainable electric-driven variants. In case of having to rely on a Temporary Solution, you will still reach your own ambitious sustainability goals.

Contact
<https://www.atlascopco.com/en-uk/Rental>

Multi-disciplined organisation providing subsea services to the subsea industry

Fort William UTC Ltd, along with staff from sister companies Caldive Ltd and Seafast Maritime Ltd attended the Subsea Expo in Aberdeen earlier this year, this was the first time exhibiting at the show. The exhibition proved to be very successful in promoting the services the group of companies can offer.

- 40 years of providing diving services to a variety of clients across industry sectors including oil and gas, renewable energy, civil engineering, shipping and nuclear.
- Fleet of specialised diving and marine support vessels – including our newly built Renewables Service Vessel (RSV) 'Isle of Jura'.
- A range of ROVs with the capability to deliver cost effective ROV hire and manpower solutions, both inshore and offshore.
- Subsea testing and asset evaluation at our unique testing facility on Scotland's North West Coast.

With a professional and experienced workforce, we have built an outstanding reputation for commercial diving and marine support services



in the UK and overseas and are able to offer our clients a turnkey solution.

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- ASTM A194 Heavy Hex Nuts: 2H, 2HM3, 6, 7, 7M, 8/8A, 8C/8CA, 8M/8MA, 8T/8TA
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- Duplex and Super Duplex (Annealed and strained hardened): UNS S31803 (F51), UNS S32750 (F53), UNS S32760 (F55)
- Austenitic Stainless Steels: UNS S31254 (F44), Nitronic® 50 (XM-19), Nitronic® 60
- Nickel Alloys : Inconel®, Incoloy®, Monel®, Hastelloy®
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- Providing diving services to a variety of clients across industry sectors including oil and gas, renewable energy, civil engineering, shipping and nuclear.
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Flow Subsea Ltd is a leading supplier of subsea equipment, offering a comprehensive range of standard and bespoke products. With a focus on innovation and quality throughout the entire process, from design to manufacture, Flow Subsea has built an enviable reputation for excellent service and dedicated support.

Products can be supplied across the world for a range of sectors, including marine, renewables, and oil & gas. This is complemented by a Quality Management System, employed in accordance with ISO 9001 2015, ensuring Flow Subsea's suppliers, design, manufacturing, testing, and products all comply with and exceed industry standards.

What's more, thanks to its continued expansion, Flow Subsea moved to larger premises towards the end of last year. This was to accommodate increased volume of work and some recent larger projects, and now Flow Subsea's manufacturing area has been enlarged by approximately 400%.

If you would like to find out more information on Flow Subsea's full range of capabilities, head to the website or get in touch using the contact details below.

Contact
T +44 (0)191 4910 772
info@flowsubsea.co.uk
www.flowsubsea.co.uk



A SENSYS product for safe Vessels through a Mobile Magnetic Ranging System (MMVA)



Magnetic ranging describes a mobile or stationary overrun facility deployed on the seabed. While vessels crossing the sensor line various times under different operational conditions from different directions, their magnetic signature is measured and recorded. Due to their steel body, engines and electrical installations, vessels typically have a large magnetic signature that creates significant anomaly within the Earth Magnetic field. This makes vessels vulnerable against sea mines or other explosives triggered by magnetics.

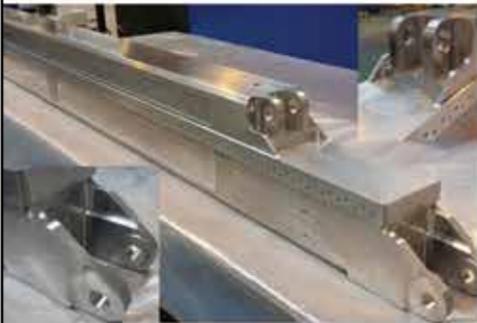
Analyzing the vessel's magnetic signature using the SENSYS ranging system helps to plan and install countering systems such as a Degaussing coil system inside the vessel body to neutralize the vessels own magnetic signature to its environment. Further information about the high precise MMVA System are available in a short video by scanning the QR-Code or on www.sensys.de.

SENSYS Magnetometers and Survey Solutions is one of the leading providers of magnetic and electromagnet survey systems and components. For 30 years SENSYS focused on high precise, reliable and durable equipment in the field of EOD technicians, geophysicists, archaeologist and offshore surveyors worldwide.

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Oldham Engineering Ltd remains a family run company and a preferred supplier of high integrity projects to key sectors including Nuclear, Defence, Oil & Gas/Subsea, Steel and Rail. An expert in turnkey project management our unique business provides in-house services of Design, Coded Fabrication, precision CNC machining and Robotic Welding alongside complex assembly & testing for bespoke projects and batch production. With the combination of our large fabrication areas, varied machining capacity and fitting department all under the same roof, Oldham Engineering delivers a complete supply solution. In addition, we have a wide range of qualifications and certifications to complement our business processes.

The company continues to develop through a deep understanding our client's needs whilst maintaining our focus on a quality driven culture embedded in Continuous Improvement. We regularly reflect on our practices and past projects allowing us to lay the foundations for future success.

Oldham Engineering is looking forward to the future - whilst always remembering our origins of historical dedication to Engineering Excellence.

The Society for Underwater Technology



The Society for Underwater Technology www.sut.org was established in 1966 in London as an International Learned Society interested in all aspects of the use of technology in the underwater environment. Today we have branches across the world and members from offshore energy, renewables, salvage & decommissioning, ocean science, defence, robotics, policy, law & many other areas of interest.

Members living near Branches have a range of local opportunities for networking & knowledge exchange, and all members are able to access our online resources, events, training and opportunities to increase their knowledge and share best practise. We are also licensed to offer Professional Accreditation to Chartered Marine Technologist level, in partnership with IMarEST and the Marine Technology Society.

SUT offers scholarships to young people interested in studying marine engineering, science & technology at university, and publishes a peer reviewed journal 'Underwater Technology' plus the popular UT2/UT3 magazine, and the weekly 'Underwater Technology Podcast', and video content on our YouTube channel 'SUT Media'.

For early career members we have the 'SUT Plus' network, and student chapters at key universities. It's a great time to join SUT in a time of energy transition, and growing 'blue economy'.

For more contact info@sut.org



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Best-in-class asset finance to maximise your opportunities



Industrial Process News is proud to announce that Propel Finance has received our SME Finance Company of the Year award.

Customers are truly at the heart of everything Propel does, and nothing has proven this more than the way the company has addressed the challenges of the last six months. After ending 2019 on high, having rebranded from Henry Howard Finance to Propel with a strong set of full year results, Propel had ambitious targets looking ahead to 2020. Then, of course, COVID-19 struck and Propel was rapidly remaking plans and dealing with all that the pandemic presented.

"Overnight almost, we had 150 staff working remotely, customers calling us as their businesses had shut suddenly, and a whole host of other stuff to deal with," said Jon Maycock, Commercial Director. "What I can say though is that as a business, we have coped amazingly well over the past six months. Teams are closer than ever and we have maintained a strong customer focus, which has really resulted in some great feedback and strengthened customer and vendor relationships.

"Our main focus has always been on our customers, and we rapidly set up from scratch a dedicated forbearance team of 26 employees drawn from other areas of the business. This made sure we were able to deal with requests immediately when they came into us. During the whole period we have stayed in regular contact with our customers, understanding how their situations are evolving and gauging how best to support them at every stage. We've also been able to

assist customers requiring help on their whole process of restarting again with industries such as food manufacturers requiring finance towards new assets, like enhanced machineries for supermarkets, and we've also provided re-financing options to a number of new customers."

This agile way of working means Propel is primed to respond quickly to changes in the ever-evolving finance industry. Technology has overnight become the critical decision point for SMEs, and Propel is committed to embracing the latest advancements. Recently, the company established a partnership with ASPIRE on the LTICloud, supporting Propel's customer led and technology driven growth initiatives and enabling it to increase productivity and streamline business operations.

Propel has also continued to invest in its existing innovative online leasing portal, which allows vendors to setup simple and competitive finance agreements for their clients and cuts their transaction times by up to 90%. Having invested considerably to bring forward the next generation technology, Propel will soon be launching 'Propeller', an innovative, automated new partner portal which will replace the company's existing platform 'HowApp'. 'Propeller' has been developed to accelerate the asset finance proposal process, enabling partners to sell more equipment, simplify the sales process, and ensure immediate invoice payment to Propel's vendor partners.

This kind of progressive thinking is nothing new for Propel. The company is always working to take its services to the next level,

pushing the boundaries of what's available and creating experiences that are personal, progressive and partner orientated. This is why Propel partners and helps businesses to progress their investment decisions with expertise, confidence and ease. "We are small enough to care and deliver a brilliant service to our customers, and big enough to have the expertise and technology to be a leader in SME finance," Jon elaborated.

"We have helped over 40,000 customers achieve their goals by keeping abreast of developments and business trends, monitoring changes in the SME finance market, forming strong relationships with our customers and always seeking to challenge traditional funding models. With a large dedicated underwriting team, Propel eliminates certain restrictions faced by other

finance of £25.5k to the business, enabling it to buy the much-needed equipment and set its growth plans in motion. "The feedback from the Managing Director of the business was positive, as he commented that Propel was great in explaining the different finance options available to them, adding that Propel provided honest and practical advice, and really supported them through the decision-making process," Jon added.

This year has certainly brought numerous challenges for companies across the globe, and Propel has stayed true to its core mission throughout: to help business customers access best-in-class asset finance and maximise their opportunities. Looking to the future, Propel will be working to broaden its reach to even more businesses across the UK. "We also aim to evolve and lead the market with all of our



finance providers, allowing us to make timely and reasonable decisions ahead of many of the more traditional lenders, helping companies access more appropriate funding.

"By bringing together experienced people with advanced technology, we've been able to offer a best-in-class service and a streamlined process, enabling businesses to harness the most efficient assets available quickly and easily. Our progressive approach creates a competitive advantage for vendors and SMEs alike, and sets us apart."

This admirable level of service recently benefitted an early stage manufacturing business. Specialising in aluminium windows, bifold doors and commercial entrance systems for businesses, it had ambitious plans to expand its distribution. As a relatively new business, it knew that being able to provide high volume, top quality products would be essential to its growth, and getting the right high-spec machinery in place was crucial for achieving this. However, the Managing Director was concerned that traditional financiers wouldn't be willing to help them fund the high specification machinery they needed to increase production to the desired levels.

Propel stepped in and provided an asset

customer facing and back office technology, which we continue to develop to help meet our goals and ambitions," explained Jon.

"It's vital that we continue supporting both existing and new customers to get back on their feet, particularly in the manufacturing industry following COVID-19. The support of options such as asset refinance in particular is a highly effective way for businesses within this industry to free the cash tied up in their existing business assets, allowing them to continue benefitting from the efficiency and productivity of using their assets, while generating additional cash for their business needs and expansion plans.

"So much has changed during 2020, beyond what anyone could have imagined, and it's vital that we move swiftly and react to the external environment and the impact on our customers. But this is always with positivity as we all learn to operate and grow in this new world environment we are part of," Jon concluded.

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www.propelfinance.co.uk

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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.

Contact
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Autoglym get shining results with new coding technology

Premium car care company, Autoglym, has installed new thermal inkjet technology (TIJ) on its bottling line, which has resulted cost savings of around 33% on the batch coding process.



Supplied and installed by Rotech Machines, a leading UK manufacturer of coding and marking solutions, the TIJ technology has increased output, reduced labour costs and gives Autoglym greater coding flexibility.

"Since installing the new printer, we've increased output by a third and no longer need any additional labour to label bottles" said Autoglym Project Manager, Damien McKenzie. "The printer is so simple and effective - it sits neatly on the conveyor and requires little intervention, other than changing the settings on the software. This single printer has solved all of our previous issues and delivered some significant cost savings".

Established in 1965, Autoglym's award-winning products are distributed and sold worldwide, and they've earned two Royal Warrants along the way.

Operating from its factory in Letchworth, Hertfordshire, the in-house process of batch coding products is fundamental for global distribution and traceability. However, when the company looked more closely at this process, it was proving costly and inefficient.

Polishing up the coding process
 Autoglym products come in a range of types and sizes including cans, jars and most notably, plastic bottles. Their products are shipped all over the world and, by nature of the product, they are used in 'wet' or harsh environments, so product labels need to be robust.

The primary product brand label is consistent for each product type, therefore requiring little intervention on the production line. However, on the bottles, the batch number and 'best before' codes are applied using a separate label because the information is constantly changing.



Traditionally, the batch and date code labels were printed and applied to the bottle by hand using a ticket gun, requiring additional labour and slowing down production. There was also a concern that this small, additional label may not always endure harsh environments - they needed to find a more reliable and cost-effective way of coding each bottle.

Rotech Sales Manager, Steve Ryan said "Autoglym were manually applying codes to 2.5 litre and 5 litre plastic bottles, printing black text in both standard English as well as Chinese characters for their Asian market. They needed to find an automated solution that was quicker, more reliable and more cost-efficient - one that would not interrupt the conveyor line. Importantly, the solution needed to be durable, to avoid any potential issues with the labels becoming damaged by moisture, and to prevent them from being removed".

Coding that will stand the test of grime
 The Integra TIJ printer was chosen because it is small, compact and ideal for integrating into small spaces or onto conveyor lines and produces high quality prints on just about all surfaces, leaving a highly durable print that will endure even wet environments.

TIJ is clean and reliable and requires no maintenance. The 'click-in, click-out' ink cartridge can print up to 400,000 clear, high-quality prints (up to 600dpi) - no mess and low consumable costs. Autoglym can now switch from black to red ink on specific products by simply swapping cartridges.

The required data is set through the iDesign format creation software, allowing Autoglym to create and edit their batch numbers, dates and times and line numbers, and switch to Chinese characters as required.

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Enter the world of advanced ceramics



Industrial Process News is proud to announce that CeramTec has been selected as our Advanced Ceramics Company of the Month.



CeramTec is a leading manufacturer of advanced technical ceramics, which are often used where other materials reach their limits. Specialising in the development, manufacture and sale of parts, components and products made from ceramic materials, CeramTec is a global industry leader, engineering these materials for use in a wide variety of applications.

The current portfolio comprises well over 10,000 products, components and parts made from technical ceramics, along with a wide variety of ceramic materials. Operating internationally, CeramTec has more than 3,500 employees at locations in Europe, the USA and Asia, with the US and Chinese markets becoming increasingly

significant. Thanks to the diverse properties of CeramTec's ceramics, which include biocompatibility, extreme hardness, wear-resistance, chemical stability, and high temperature resistance, they can be used for a large range of high-tech applications, from inside the human body, to industrial production, to outer space.

With over 110 years of history behind it, CeramTec has the expertise necessary to deliver premium products, which benefit industries such as medical engineering, automotive, electronics, energy, and environmental engineering, to name a few. Thanks to CeramTec's agile and flexible approach when selecting materials, it can adjust and adapt advanced ceramics to meet the requirements of each application.



This optimises the design and manufacture of its parts and components and takes advantage of the special material properties of ceramics. CeramTec also has special expertise in developing customised solutions in close cooperation with customers, such as in the automobile sector, and its products are known for offering higher process stability, higher durability, and long service intervals.

CeramTec's industrial division is active in all sectors, focusing on solutions for customer-specific



applications. Through its medical division, CeramTec concentrates on the development and production of ceramic components for orthopaedics, such as hip joint ball heads and inserts made of the material BIOLOX®delta. In this area, ceramics are ideal for their excellent biological behaviour, biocompatibility and abrasion resistance, as well as their greater durability and corrosion resistance compared to metal alloys such as cobalt chrome.

Indeed, CeramTec's advanced ceramics can often be found where requirements are high and challenging. During the COVID-19 pandemic, specific medical technology products from CeramTec offered essential support including dipping moulds for medical glove production and components used in dialysis and respiratory equipment. In the context of boosting testing capacity for verifying the virus in blood samples, the carrier, which holds and transports the individual blood probes into the equipment, is a critical part of the diagnostic equipment.

Technical ceramics are ideal for this purpose thanks to their bio-compatibility, chemical resistance and thermal conductivity. In this field, CeramTec also uses state-of-the-art laser technology to manufacture



highly precise blind holes into the substrate, which then carry the individual blood probes.

Of course, CeramTec is constantly pursuing its goal of developing new and intelligent solutions, and its upcoming innovations are anticipated across the industry.

If you would like to find out more information on CeramTec's full range of capabilities, head to the website or get in touch using the contact details below.

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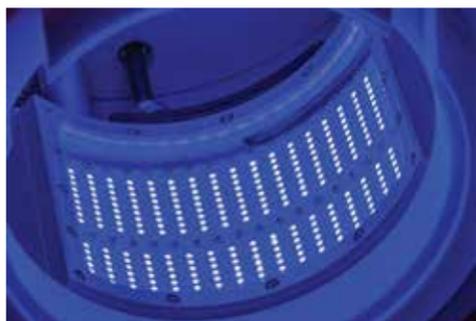


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Accessible flow chemistry apparatus

Industrial Process News is proud to announce that Uniqsis has been selected as our Flow Chemistry Company of the Month.

Uniqsis specialises in the development, manufacture and sales/support of meso scale flow chemistry apparatus. Founded in 2007 by a consortium of investors, the company is based in Shepreth near Cambridge, and offers accessible flow chemistry equipment designed by chemists, for chemists.



Through its comprehensive product range, Uniqsis makes flow chemistry accessible to novices, while at the same time catering for multi-step and automated reactions sequences. As customer needs evolve, they can simply upgrade as required by choosing from Uniqsis' wide array of material options, reactor modules and automation, and accessories.

The FlowSyn Maxi™ is a compact, benchtop reactor system designed in response to requests from process chemists. It retains all of the advantages of the standard Uniqsis FlowSyn™ flow chemistry system, as well as boasting higher flow rates for higher throughput applications.

Constructed from robust epoxy coated and bead-blasted stainless steel, the FlowSyn Maxi™ can be specified with either stainless steel, Hastelloy® or PTFE flow paths. It is fitted with larger bore inlet tubing and upgraded inlet/outlet solenoid valves with bigger fluidic channels in order to cope with the increased flow rate.

The unit is compatible with all existing Uniqsis coil reactors, and is ideal for use with larger reactors up to 60ml constructed using 1/8" OD tubing in conjunction with glass static mixer chips to ensure efficient and reproducible mixing. Furthermore, the FlowSyn Maxi™'s high resolution graphical interface quickly guides the operator through the set-up for either manual or automated flow chemistry reaction with two inputs.

For higher scale Photoredox flow chemistry applications, Uniqsis offers the PhotoSyn™, a higher power lamp unit for continuous flow photochemical applications. This contains a pair of hemispherical LED arrays composed of several hundred high quality individual diodes that maximise photon flux by concentrating the light inwards towards a central coil reactor.

The LED arrays are water cooled and incorporate thermal cut-outs which prevent the temperature of the array exceeding 60°C. What's more, the unit also benefits from internal convective cooling to prevent the build-up of static hot air and improve temperature management with the reactor cavity.

The PhotoSyn™ has also been constructed to eliminate any extraneous light leakage in operation

and is protected with safety interlocks that immediately switch off the LEDs should any attempt be made to remove the light enclosure from the reactor.

This helps the user to avoid the possibility of exposure to high intensity and/or UV light sources.

Moreover, the LED light unit is supplied with a matching high voltage power supply that recognises the lamp unit connected and modulates the current output accordingly to protect and maximise the lifetime of the LEDs. Therefore, the power supply may be connected to any lamp unit.



Uniqsis offers a range of accessories, and the PhotoSyn™ can be fitted to either the Uniqsis Cold Coil standalone coil/chip reactor module or the Polar Bear Plus Flow. These units are compatible with all existing Uniqsis PFA Coil Reactors, and chromed coil reactors are also available to maximise reflected light inside the lamp unit.

Looking to the future, Uniqsis is planning to set up a new applications laboratory to further the company's expansion offering a state-of-the-art demonstration suite of flow chemistry products and chemistry support to its customers.

Furthermore, Uniqsis will be recruiting a chemist to manage the laboratory, run new chemistry applications and support its many existing customers.

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

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AMH Material Handling increases e-commerce throughput for Selfridges & Co at DHL facility

Automating packing and sortation for e-commerce delivery.

In 2016, AMH Material Handling was asked to produce a solution to increase speed, accuracy and throughput capacity by automating the process of packing and despatch over the three floor mezzanine site. In order to automate the facility, AMH installed belt conveyors on level 2 to accommodate packing desks on either side. Personnel are able to package orders and then place them straight onto the conveyor belt without the need to manually move packaged deliveries. Items on level 2 travel towards the end of the mezzanine floor where they are automatically inducted into a powered decline spiral conveyor.

On level 1 of the mezzanine, AMH utilised existing conveyor systems and upgraded the conveyor belts where necessary. Again, personnel are based at packing stations either side of the conveyors and place packaged parcels onto the two conveyors. AMH installed a number of powered roller accumulation zones between the two packing conveyors to provide a continuous flow whilst merging the two packing lines onto

a single conveyor as they also join the powered decline spiral conveyor. The ground floor of the DHL site is predominately used for the packing of large goods which can't be handled by the spiral conveyor system. Once items are packed by personnel on workbenches adjacent to the ground floor packing line, they are then placed onto a conveyor where they travel to the despatch area.

The conveyor at ground floor level was designed at a height which enables workers to continue processes underneath it. This provides DHL a throughway along the ground floor, ensuring that all large despatch orders can be transported and collated with all other orders at this level. Packaged parcels on level 2 are merged on the spiral conveyor with packed parcels from level 1. The parcels from both levels are then transported to the ground floor where they meet the ground floor packing line conveyor infeeds. All packaging lines are then merged onto a single conveyor line which transports parcels to the despatch sortation area. As parcels reach the despatch area, they pass through a five sided barcode scanner which sorts them by final destination. The sortation process is configurable by the user to sort by either region, carrier or store. Flexibility for the operation was key when finalising the functional design specification. Parcels are then diverted using 24v high performance diverters and sent down the correct chute for palletising.

A solution to accommodate e-commerce growth

In 2018, AMH Material Handling was asked by DHL to complete additional work to the Hams Hall site. Assam Khan, operations manager at DHL explains: "Selfridges' e-commerce operation is continuously growing each year. As a result, we needed to expand on AMH Material Handling's initial installation in order to keep up with the demands and meet worldwide customer delivery times." Selfridges approached us and said they needed to increase their e-commerce throughput. As a third party logistics provider, it was down to DHL to source the equipment to achieve this. We realised that we needed to expand the number of workbenches on-site to increase throughput and therefore commissioned AMH to complete the additional work to accommodate



this. "We decided to move the store retail operation on the ground floor to the far side of the facility. This freed up a significant amount of space enabling AMH to install two additional conveyor feeds to the despatch line. This allowed us to add an additional 60 benches on the ground floor - significantly increasing packaging throughput."

Our peak week for e-commerce is Selfridges "Christmas Comes Early" (CCE) week which is essentially its Black Friday week. We had planned to process 50,000 units per day but we actually hit 58,000 units per day and we wouldn't have been able to manage this without the extra workbench area installed on the ground floor. AMH also installed a maintenance platform for the raised despatch sortation system to provide safe access so any faults can be quickly and easily rectified."

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Trolex Air XD: The New Generation of Particulate Monitors

Thousands of people die every year due to the inhalation of hazardous particulates at work. The response to this crisis has been hampered by the unavailability of reliable dust monitoring - until now.



Air XD from Trolex simultaneously monitors for dust across the full spectrum of harmful particulates, is highly accurate even when operating in heavy dust loads, and has no filters and no pump and so requires servicing only every 6-12 months. It's the new generation of particulate monitors and it's available from Trolex and its global network of distribution partners.

According to the HSE, three out of five of the biggest occupational health hazards are related to the inhalation of harmful particulates, causing serious long-term health problems and untimely death. Silicosis, Black Lung Disease and COPD have all been linked to this issue, to name a few. Particulate monitoring has seen very little innovation over several decades, leading to thousands of deaths. Over 18,000 cases of work-related respiratory illnesses are recorded every year in the UK alone, according to the Labour

Force Survey, and the figure is over 1/2million globally.

In response to this health crisis and after seven years of research, Trolex have created a new generation of particulate monitors: The Air XD Range.

Prior to the release of the Air XD the biggest issue with dust monitors on the market was their inability to accurately detect particulates in heavy dust-loads.



Air XD is the world's first and only plug-and-play, open-path, full-spectrum, real-time particulate monitor, and can retain its accuracy in dust-loads of up to 1500 mg/m³ - that's around ten times more than the old technology can achieve.

Plus, it monitors all dust all of the time - 10,000 particulates per second from 0.35µm-40µm, meaning no more guesswork. Just the complete picture of particulates in the air, delivered with unrivalled accuracy.

Air XD has no filters and no pump, which means no messing about with weekly or monthly cleaning regimes and replacement requirements. Its open-path brushed stainless steel chamber allows Air XD to monitor every particle flowing through the unit with near-zero maintenance or man-power. The recommended Air XD maintenance cycle is every 6 - 12 months, compared to a cycle of just a few days in some competitor models. Calibration of the unit is completed in-field in seconds and is serviced in around 20 minutes. No lab testing, no return-to-base and no complicated routines.

Air XD isn't just about saving lives - it also



provides many opportunities to save money, improve efficiency and protect businesses.

The real-time, full-spectrum information delivered by the unit can be used to improve processes, identify process leakages and to intelligently deploy dust suppression and control tactics.

Usage of PPE and initiation of safety procedures can be controlled in a smarter way. Proven regulatory compliance can prevent litigation claims against businesses for health issues that later become apparent for those with prolonged exposure to harmful particulates.

"At Trolex, we believe that no person should risk their life to earn a living.

Our aim is to become the world's leading name in safety technology, through pioneering products that provide real-world benefits to our customers, whenever workers operate in hazardous environments."

For more information on Air XD and for a free report and risk assessment on your particulate problem, visit www.trolex.com

Air humidification in hospitals



Regulating air humidity is of fundamental importance for hospital facilities, as the health conditions of patients, correct functioning of medical equipment, well-being of doctors and visitors and healthcare spending are closely related to it.

The regulation of air humidity plays a fundamental role in

a hospital environment, first and foremost to safeguard patients from nosocomial infections. A correct level of relative humidity guarantees the good functioning of medical machinery, which is essential for hospital operations and avoiding dry air helps maintain an acceptable level of comfort for the well-being and performance of patients and medical staff.

Managing humidity is important in impeding the growth of bacterial colonies in the building as, to develop, they need water and nutrients. It is therefore necessary to avoid the formation of areas where humidity condensates and forms stagnant water, for example in air conduits.

Hospital humidification systems usually humidify fresh air in the ducts rather than directly in the room but, aside from this, their main components are not dissimilar from those for

other applications.

However, considering the importance of the processes carried out in these facilities, specific manufacturing measures must be taken to guarantee the hygiene and reliability of installation.

Humidification is an aspect more important than one would think for the operativeness of a hospital facility due to its great impact on the:

- development of pathogens and transmission of patient infections;
- protection of medical machinery against electrostatic discharges;
- well-being and performance of patients and medical staff.

Humidification systems are compulsory in hospitals and

CAREL

the various components must be selected so as to be suitable for application needs regarding hygiene, reliability and connectivity. When possible, choose adiabatic or high-performance isothermal humidifiers as they combine humidification needs with the energy saving objectives to be reached in energy-consuming facilities such as hospitals.

Contact
marketing.uk@services.carel.com
www.careluk.com

New HSE fume testing guidelines during pandemic



The HSE has recently updated its guidelines with regards to Thorough Examination & Testing (TEXT) of dust and fume extraction equipment during the pandemic. In brief it covers the following points:

- Businesses and inspection bodies must co-operate to ensure access to plant and equipment for TEXT schedules to continue
- If your business is closed, you should still ensure TEXTs are carried out to remain compliant
- Critical industries will be prioritised
- Local Exhaust Ventilation (LEV) equipment should not be used if a TEXT has expired. (Equipment must be safe for staff to use and employers must comply with HSE regulations)

a great responsibility to ensure workers are safe from Covid-19 but as always, there are also other risks that should be addressed in every working scenario.



“The number of deaths and illnesses from dust and fume inhalation in the workplace as reported by the HSE are slowly decreasing each year and we need to ensure this continues. A simple test can help to ensure it does.”

For more information visit the HSE website and to book on-site testing call Impact on 0116 2448855 or enquiries@impactts.co.uk.

Ensuring employee protection, not only from the virus, but also from harmful dust and fumes in the workplace, must remain at the top of the agenda for employers. Equipment may have been left unused for a number of months and testing dates may have passed by, so it is crucial that the equipment is tested and approved for use.

Tony Bosworth, operations director for dust and fume extraction specialists, Impact Technical Services, says “LEV testing/TEXT is affordable and simple to arrange, so there is no reason why employers should not follow the updated guidelines. At this time, employers have



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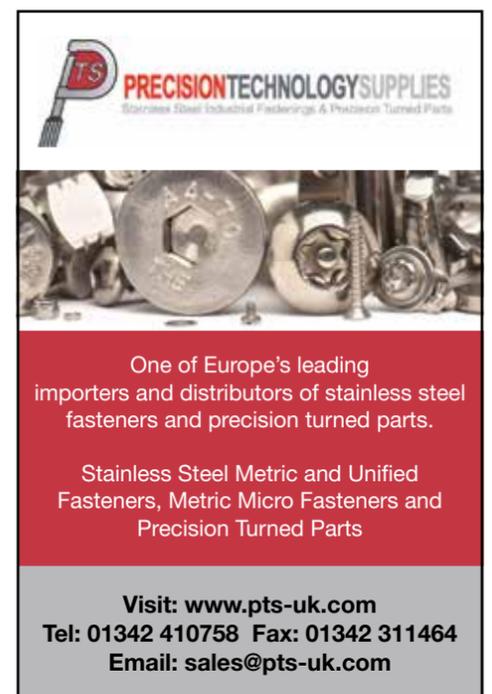


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Industrial Process News is proud to announce that SciMed has been selected as our Scientific Equipment Company of the Month.

SciMed is a distributor of lab and process equipment, exclusively representing a number of leading manufacturers in the UK and Ireland as well as recently being appointed the distributor for some exciting new suppliers. With over 40 years' experience, SciMed is committed to the promotion, sales, service and support of innovative and world class products for companies and laboratories ranging from academic institutions, large-sale industry and contract testing laboratories, to start-ups and SMEs.



Using its decades of expertise, SciMed takes pride in helping scientists, engineers and quality technicians solve their analytical and process challenges, working closely with its customers to fully understand and deliver their requirements. This is complemented by effective and dedicated aftersales care throughout the lifetime of the customer's equipment.

Certainly, it is easy to see how SciMed has established such an excellent reputation over the years, supplying and supporting high-end products for the following disciplines: Atomic Absorption (AAS), Inductively Coupled Plasma (ICP-OES and ICP-MS), High Pressure Reactors, Supercritical Fluids, Total Organic Carbon (TOC), X-ray Fluorescence (ED-XRF and WD-XRF), X-ray Diffraction (XRD), Glass reaction Vessels, Viscometry, Thermal Analysis (TGA, STA, DSC, TMA, DMA), Electron Microscopy and many other methods.

Employing a 26-member team of highly qualified product specialists with a strong support group, SciMed also boasts an applications



Paul Vanden Branden

laboratory for sample trials and product demonstrations, as well as a test facility for assembly, service and repair of equipment. Crucially, thanks to having employees spread throughout the country, SciMed has the ability to offer valuable local support to its customers. This means they can benefit from a dedicated team of specialists who will provide professional advice and guide them in buying the most appropriate system.

"We have a highly proactive response when customers have issues," added Paul Vanden Branden, Director. "Whether that's broken equipment, training requirements, or advice on how to use it better, customers always have direct access to knowledgeable specialists, with no barriers or call centres to slow things down."



Indeed, SciMed is dedicated to its customers, a fact that is evident in the long-standing relationships it has with some of its suppliers. The company has always invested in long-term partnerships, establishing lasting trust and ensuring that all parties are working together. This helps to create the best possible outcomes for customers, as they can benefit from dedicated, consistent and long-term support. "We've been working with some companies for 40 years, so they have clearly trusted us to have stayed with us for this long, despite various economic challenges," said Paul.

The technologies SciMed distributes are ideal for the industrial sector, where the need to maintain quality control is crucial. What's more, there is a growing number of regulations in the field of environmental compliance, concerning the discharge of substances



into the environment and water quality, for example. SciMed has the technologies needed to help ensure people remain compliant with such rules. "The cost of not controlling the quality of what you're doing can be far greater than investing in these tools. Consequences of non-compliance with quality and environmental regulations can be dire, so we can help ensure that you are doing things correctly."

Recently, SciMed was appointed as the exclusive UK distributor for Thermo Haake's range of Rheometers and Viscometers. This means the Viscotester and MARS products portfolios are now available from SciMed, along with a range of standards, accessories and valuable technical support and advice. Until February 2020, SciMed was the distributor for Brookfield viscometers, and now it has been upgraded to the Haake range to offer better value for money, superior performance and a greater range of high-performance rheometers. Of course, SciMed is always looking to expand its portfolio of products to complement its existing operations, and continues to search for new and innovative companies to represent.



Although the calendar of trade shows has seen major disruption this year, SciMed regularly attends Lab Innovations, Surface World, the Advanced Materials Show, and will be attending the RWM show if it still goes ahead in November this year at the NEC, Birmingham.

In light of the COVID-19 pandemic, SciMed is now seeing a resurgence of activity, and is looking at making investments to better serve its customers as activities resume. "It's been a difficult year, but thanks to careful management we've made it through. Now we're looking forward to using the restart of the economy as a springboard for further investment and growth," said Paul.

If you would like to find out more information on SciMed's full range of equipment, head to the website or get in touch using the contact details below.

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