

INDUSTRIAL PROCESS NEWS

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Inside this issue:



Parkburn Precision Handling Systems
See them on page3



ABLE Instruments & Controls
See them on page 10



Suurmond
See them on page21

Contents:

- MACH 2022 Review6-7
- Machining8-9
- Process & Control10-11
- PPMA Total Show 2022
Preview12-13
- Handling, Storage &
Logistics.....13-15
- Industrial Process
Technologies16-17

IPN

New StopTite Industrial range

THE NEW StopTite Industrial range has been launched to provide high-quality premium solutions for thousands of applications across industry. Products are available in colour-coded categories, and include threadlockers, retainers, pipe sealants, gasketing and adhesives for mechanical assemblies.

StopTite products offer outstanding mechanical properties with a temperature range of -50 to 200°C+. The threadlocker product helps to prevent the loosening of bolts, studs and screws, due to vibration and shock loads. It can also be used to permanently lock threaded components. The Retainer products offer excellent resistance to shear and compression and can be used for the permanent fixture of bearings, shafts, splines and keys.

The ST27 Pipe Sealant product offers an instant low-pressure seal on tightened fittings up to 150psi.

The ST31 Multy Gasket offers resistance to low pressures after the assembly of mating flange faces. Seal joints between metal faces and flanges. Ideal for motoring and industrial applications.

The 007 and 006 high-strength adhesives



have been designed to bond metal and composite applications, offering high-impact resistance while remaining quick and easy to use.

Made in Britain, the StopTite range has been developed by S2-lube, which has been formulating a wide range of industrial products with partner companies for over 40 years. The company's products are popular with various industries, including renewables, water, electronics, construction, military, aircraft, farming, leisure, automotive and all types of production lines.

Product is supplied to stockists as retail display boxes of 6 to 20 items. Free samples are available and can be requested by emailing: sales@stoptite.co.uk or calling 01584 874220 or visiting: www.stoptite.co.uk

Hydrogen valve collaboration: Only Oliver's could do

Oliver Twinsafe have been working with their sister companies, Oliver Hydcovalves, and Oliver R&D, to prepare their 2" Metal Seated Trunnion ball valve ready for hydrogen applications. Rigorous testing using helium, which is the best substitute to hydrogen, has been carried out by R&D technician, John Whitehead, who said, "In order for the Trunnion valve to pass testing it had to meet with stringent ISO 15848-1:2015 Tightness class B certification including ISO 5208:2015 zero seat leakage rate A. We've achieved this with precision engineering and by providing a high-quality seal face finish.

"This has been my first involvement on the Hydcovalves project and, as with all of our test standards, it's tough-going and meticulous work is required to underpin the safety and certification



which is paramount to the team. I've thoroughly enjoyed the hydrogen testing process, and to be involved in close collaboration with the Oliver group of companies at a very exciting time within the energy industry."

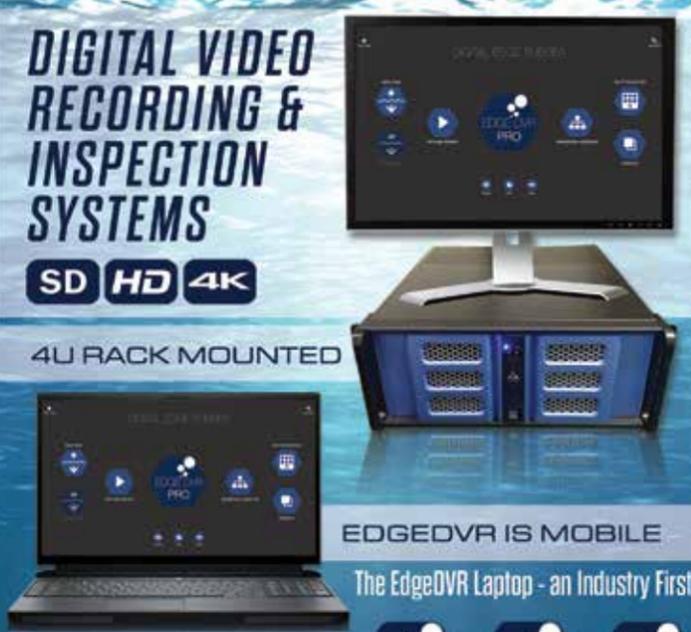
For more information on Twinsafe's range of Hydrogen valves or to discover Oliver R&D's capabilities and service, contact Ian Bryant or Nick Howard on 01565 632636, email: sales@valves.co.uk or visit their website at: www.valves.co.uk

oliver valves

DIGITAL VIDEO RECORDING & INSPECTION SYSTEMS

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EDGE DVR IS MOBILE

The EdgeDVR Laptop - an Industry First

- Diving
- Workclass & Inspection ROV
- Platform & Pipeline Inspections
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DIGITAL EDGE SUBSEA

www.digitaledgesubsea.com

Digital Edge Subsea

Digital Edge Subsea supplies the oil and gas industry with its digital video recording system.

The company, established more than 10 years ago, has nurtured strong customer relationships that has allowed for honest customer feedback, and this has been incorporated into the development of the Version 5 Edge DVR.

Conversations continue and now Digital Edge are pleased to be able to offer further software that will help their customers to serve their clients better.

Data Archive App
Digital Edge will soon release a data storage and back-up solution that uses an integral app within Edge architecture, to avoid needing a 3rd party app. Edge Archive handles the transfer of data from the internal DVR drives to Client storage, either on a NAS, a Raid, or a phased delivery to multiple external hard drives.

Being a Native app, the data transfer ensures that the quality of Live recordings are not impacted by a 3rd party program trying to access the same file that the DVR app is currently using. Ensuring recorded data



integrity and quality is of the highest importance.

Archive can act as a Simple data mirror of the correct internal drive data folders, or can be used to create multiple simultaneous backups of Client Deliverables. This can be done in continuous backup or a phased approach, ie. after each dive.

For more information or a demonstration of the system, contact: info@digitaledgesubsea.com or visit: www.digitaledgesubsea.com

Editor Recommendations

Services for the sheet metal industry

PressCare UK Limited is a West Midlands based engineering company predominantly operating in the fields of power presses, coil handling equipment & automation systems. We offer a comprehensive range of services to the sheet metal industry including servicing, safety inspections, electrical & mechanical repairs, preventative maintenance programs, installations, commissioning, guarding solutions & CE marking. We offer a comprehensive range of ancillary equipment including tool protection (load monitors, component/misfeed detection, etc), strip lubrication, scrap removal & energy saving systems.

One of our specialities is the design & integration of machine control/safety systems, ranging from minor safety upgrades to complete rewires. From a modern multi-press line to an older ring frame machine, we can design, manufacture & integrate a new state-of-the-art control system to bring your press shop equipment into line with the latest safety standards.

We have a number of global manufacturing partners allowing us to tailor an individual process solution to your requirements. We provide a comprehensive service from initial advice on the correct equipment for your application to installation, guarding & commissioning, warranties, after sales technical support & ongoing preventative maintenance. We also carry an extensive range of spare parts here in the UK.

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Commitment to workplace gender equity

EDGE Romania Group of Companies, a global leader in low-carbon energy and services, has become EDGE Assess certified, demonstrating commitment to workplace gender equity. This certification makes ENGIE Romania Group of Companies the only organisation in the Electric Utilities industry in Romania to be certified at this level.



EDGE is the leading global assessment methodology and business certification standard for gender and intersectional equity. The certification process involves a rigorous third-party review of representation across the pipeline, pay equity, effectiveness of policies and practices, and inclusiveness of an organisation's culture. As an integral part of the assessment, statistical data is analysed, policies and practices are reviewed and employees receive a comprehensive survey to assess perceptions of career development opportunities in the workplace.

EDGE's assessment shows that ENGIE Romania Group of Companies has a strong framework of effective policies and practices to ensure equitable career flows when it comes to leadership development training and mentoring, and flexible working. This is also reflected in the employees' positive perceptions of equal training opportunities offered to men and women to improve their professional skills. In terms of gender representation, the organisation has a good gender balance and meets the EDGE Standard of 30% by gender at all management levels.

In terms of future commitments, ENGIE Romania Group of Companies will implement gender-inclusive language and visuals in its recruitment and promotion materials. In addition, when it comes to organisational culture, the organisation is committed to writing a policy explicitly mentioning the value of diversity and inclusion.

www.engie.ro
www.edge-strategy.com

Dust: Why it's important to control and reduce risk to employees on site

Dust. Seemingly harmless and inconsequential, yet also one of the biggest causes of occupational ill health that we know of today. Regularly breathing construction dust has been linked to diseases like lung cancer, asthma, COPD (Chronic Obstructive Pulmonary Disease) and silicosis.

In an effort to drive change, the Health & Safety Executive (HSE) has been focusing on guidance around risks associated with dust, with a focus on construction sites, brick factories and bakeries among other industries. The

Control of Substances Hazardous to Health (COSHH) Regulations 2002 requires that employers protect workers from the hazards of respirable dusts, like wood and silica.

HSE recommends educating workers on the risks from dust and the control measures required, such as effective extraction and cleaning up with suitable equipment for the type of dust involved like an industrial vacuum that is at least M Class classification for wood dust. M class means that the dust created represents a medium risk to operators. M



Class Vacuums have filters that trap over 99.9% of the dust with a grain size of under 2 microns.

Crescent Industrial offers a full range of M-Class, H-Class and Atex rated industrial vacuums, suitable for a variety of sites, including factories and constructions sites.

If you'd like to find out more about how we can help you control dust on site and reduce risk to your employees, contact us on 01789 415695 or email: info@c-ind.co.uk

Smartech reveals 'The Track'

In the build up to the British Grand Prix, Smartech Retail Group unveiled a glimpse into the future of experiential retail as it opened its doors to a permanent Formula One destination called 'The Track by Smartech' at Selfridges, London.



Formula 1 was the fastest growing sport last year, and the 55m² concept store is the first 'The Track' flagship store in the world. In partnership with The Memento Group, The Track will feature a world first with a current 2022 season F1 show car – the Alfa Romeo F1 Team ORLEN C42 – forming the focal point of this innovative and interactive retail experience, alongside other unique F1 memorabilia and collectibles.

The Track is designed to create an immersive experience for fans, collectors and the uninitiated, to discover the world of F1, blending unique digital and physical experiences. It has been developed as part of Smartech Retail Group's strategy to innovate its stores, as customers seek more personalised and interactive retail offerings. The launch takes place as part of a transformation of the technology department at the Oxford Street store, offering customers a

more experiential visit.

For the first time in Formula 1 history, a current season F1 show car is exclusively available for fans and collectors to own. The Track will showcase the Alfa Romeo F1 Team ORLEN C42 show car which features the chassis and liveries from the current 2022 F1 season cars driven by Valtteri Bottas and Zhou Guanyu. It presents a unique opportunity to experience the car and to potentially own a piece of F1 history. The car is available for sale at The Track – price on application.

The Track by Smartech is located at Selfridges Oxford Street and launched officially on 30 June 2022. The majority of the collection will also be available at: www.selfridges.com and www.smartech.buzz

boplan
www.boplan.co.uk

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8 flow limiting cartridges

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In this issue of Industrial Process News, we have selected Parkburn Precision Handling Systems Ltd as our Product Handling, Drive & Control Systems Company of the Month.

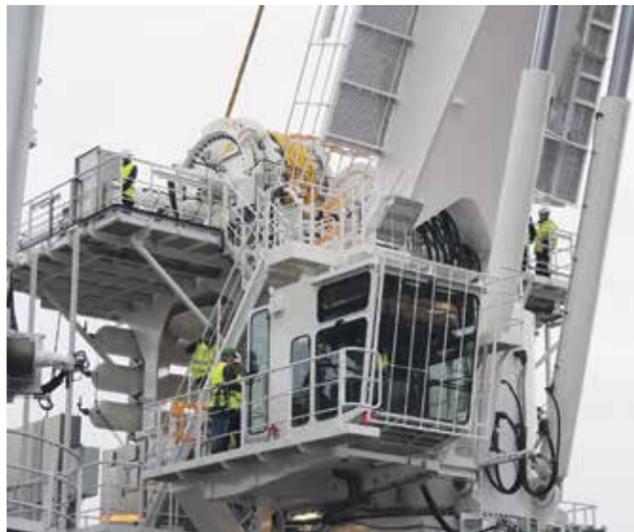
Parkburn Precision Handling Systems Ltd is a privately owned, engineering company that specialises in the design, manufacture, installation and service of product handling systems.

The Parkburn group was originally established in Hamilton, Scotland in 1989. Expanding significantly since its beginning, following an acquisition in 2002 of Dowty Precision Handling Systems; a new company, Parkburn Precision Handling Systems Limited was formed.

In terms of its location, the company maintains two offices in the UK, situated in Hamilton and Telford. Hamilton is Parkburn Precision Handling Systems Ltd's Head Office which deals primarily with drives and controls. Its other site in Telford deals primarily with equipment system assembly and testing. The company also maintains global representatives.

Operating from its two sites in the UK, Parkburn Precision Handling Systems Ltd provides a wide range of technically advanced, high performance product handling and drive and control systems. The company provides a comprehensive service to worldwide onshore and offshore markets including: Offshore Oil and Gas, Saturation Diving, Deep Water Lifting, Power and Telecoms Cable Lay, Pipe Handling, Naval Ships and Submarines, Seismic Exploration, Oceanographic Research and Renewables.

The new test tower has been specifically designed to provide intensive diagnostics and remote connect capabilities for rapid response and maintenance support. At more than 100ft high and 125Te rated, the tower is equipped to carry out a more thorough set of tests on the research and development of the company's handling systems. Offering a full turnkey testing of products prior to despatch, the tower



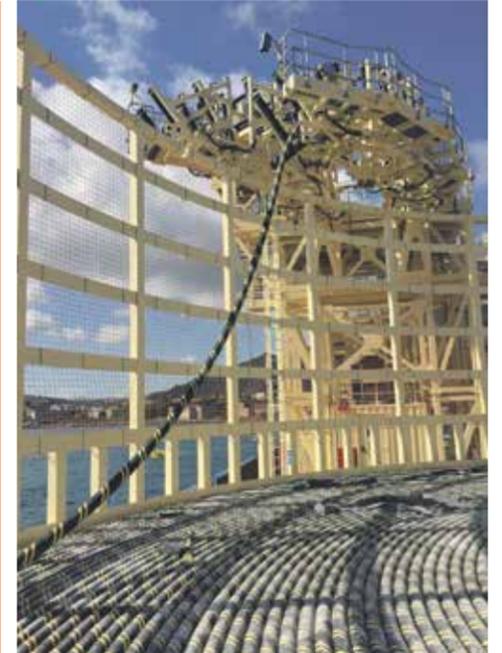
enables Parkburn Precision Handling Systems Ltd with the ability of creating and testing conditions that are like actual use and installation on the vessel.

Other notable products are Parkburn's Deep water fibre rope handling systems, the Deep Water Capstan (DWC) and its pipe handling capstan technology. After undergoing many years of research and development, the Deep Water Capstan is a patented fibre rope handling machine which has been

developed specifically to tension and de-tension fibre ropes, cables and umbilicals, without inflicting significant force onto the cables. The Capstan reel installation system (CRIS) is a patented pipe handling machine which has also been developed specifically to handle the tensions required in deep water flexible pipeline. These systems are available up to 1,000te in water loads.

The Deep Water Capstan is used on the world's first deep water fibre rope active heave compensated crane. A 150t variant of Parkburn's Deep Water Capstan lies at the heart of MacGregor's FibreTrac fibre-rope 1500 crane. The MacGregor FibreTrac fibre-rope crane, is the first of its kind and provides many advantages including the ability to lift/lower maximum payload to water depths more than 3km.

The crane was created in collaboration, through MacGregor's vision to partner with key technology providers: Parkburn Precision Handling Systems Ltd, Lankhorst Ropes, DSM, Applied Fiber and DNV to enhance the performance, efficiencies, and capabilities of their product line.



In light of recent developments, the COVID-19 pandemic has caused many disruptions and major issues for the company, related to the availability of materials, pricing instability and the temporary loss of personnel. Parkburn Precision Handling Systems Ltd has overcome these new challenges and is working toward moving forward, by fostering relations with key supplier and partners. Another challenge the company has to overcome was in relation to Brexit, which initially created some additional logistic difficulties, but the company is pleased to be recovering effectively from both Brexit and COVID-19.

As the company plans for its future, Parkburn Precision Handling Systems Ltd maintains many impressive expansion plans. Recently, Parkburn Precision Handling Systems Ltd has experienced a significant period of growth and recruitment, which it plans to continue building upon. One of the main aims for the company's future is to look at continuing expansion and exploring opportunities for company locations in key geographical areas. Furthermore, the company has also been making a move towards the introduction of electric vehicles.

If you would like to find out any more information, please see below.

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www.parkburn.com



Heating, Ventilation & Air Conditioning

SWEP's high efficiency condenser & evaporator

SWEP launches FI22AS – high efficiency condenser and evaporator with low global warming impact for reversible heat pump systems



This heat exchanger has been designed to match the rapidly increasing demand for residential heat pumps with high efficiency, low refrigerant charge, low water pressure drop and high asymmetry grade leading to a small carbon footprint.

With countries across the world seeking to move from fossil fuelled heating systems to both Air to Water and Ground Sourced Heat Pumps, the FI22AS is set to find a sizeable market. The heat exchanger has been developed with SWEP's patented AsyMatrix2 technology as well as new innovative distribution system to deliver high thermal performance while ensuring a low secondary side water pressure drop. This makes it ideal for systems with demanding thermal and hydraulic requirements.

The FI22AS is optimised for the R290 and R32 refrigerants; R290 is a natural refrigerant which doesn't harm the ozone layer and has virtually zero impact on global warming, while providing excellent energy efficiency. R32 is a single component refrigerant, meaning it is easier to reuse and to recycle.

Anton Olausson, SWEP Segment Manager for Residential Heating, said, "The European market for heat pumps is now expanding significantly, with the rest of the world set to follow. The FI22AS, with SWEP's unique patented technology, provides a considerable boost to condenser efficiency coupled with improved efficiency in reversed evaporator mode. Together with its limited environmental impact, it is the ideal component for these changing times."

www.swep.net/products/fi22as/

Stable humidity control

Controlling the humidity levels in commercial and industrial environments will ultimately improve efficiency, productivity, and profits. It has been scientifically proven that stabilised relative humidity levels between 40-60% significantly improve mechanical and human performance. Processes like manufacturing, printing and food production rely on stable humidity to ensure optimal performance.



Unstable conditions where humidity is low can cause moisture absorption in hygroscopic materials such as wood and paper. This leads to static, dust, warping and cracking. When dried out materials pass through machinery at high speeds it results in breakdowns. If humidity levels are too high, it causes mould, corrosion, and rusting of expensive equipment. These problems cause major disruption to businesses and creates a reduction in productivity and profitability. The resolution is investing in the right humidity solution.

Humidity Solutions is the UK's leading independent specialist in humidity control, offering a range of humidifiers and dehumidifiers from some of the world's leading manufacturers. We have a highly experienced and knowledgeable team who can design a bespoke solution for each unique application, and supply, install and maintain the equipment throughout its life. Get in touch with our specialists today.

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Water, Energy & Environment

ACI Group achieves UK first with Social Value Quality Mark

ACI Group, a leading distributor working with some of the largest global food, pharma, industrial and road businesses, has become the UK's first distributor to achieve the esteemed Social Value Quality Mark (SVQM) – an award that aims to cultivate and recognise the highest known standards in values-led business.

To mark its journey towards a sustainable business model, the Berkshire-based company has announced recently that it will

redefine what sustainability means under its distributor as a service model.

As part of a series of pledges for the SVQM, ACI Group aims to positively disrupt the market by taking pivotal steps to demonstrate its commitment to both people and the planet.

"We are passionate about service and sustainability in the supply chain – and we want to start making a difference in our

customer supply chain today," comments Karsten Smet, Director at ACI Group. "Consumers want demonstrable proof of sustainability claims from the brands they purchase from, they want to understand where their products have originated and how they are made. At ACI Group, we want to help our customers and suppliers ensure that any sustainability claim is measured from the outset."

For further information about the Social



Value Quality Mark, please visit: www.socialvaluequalitymark.com

To find out more about ACI Group and its activities, visit: www.acigroup.biz

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- Reducing operating cost
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Middle East · Norway Poland · Russia · Sweden · Switzerland



Interactive plant process management software

In this issue of Industrial Process News, we are proud to announce that we have selected eschbach as our Plant Process Management Software Company of the Month.

Eschbach is a leading software developer for interactive management, transparent communication and business intelligence. Established in 2005, the company has gained industry recognition for its award-winning Shiftconnector solution.

"We are a standard software vendor specialised for chemical and pharmaceutical manufacturing. In those areas you generally have 24/7, 365 day operations and within these shift-based operations, communication is really key. We offer a solution that fulfils the special requirements as shift communication and performance improvements within the process industry," stated Felix Michler, Head of Marketing & Sales.

Shiftconnector is a software solution for Plant Process Management (PPM), designed for use in the pharmaceutical and chemical industries. The main purpose of the software is to provide a platform to connect production plant personnel working in a 24/7 shift system with one another, providing smooth communication and consistency as well as transparency and traceability, especially during shift handovers.

Initially starting out as a shift handover tool,



Shiftconnector has now developed into a fully-fledged Plant Process Management (PPM) platform, providing a digital transformation of information, management and monitoring.

"We position ourselves in the PPM area to fulfil the needs in shift operations and to enable communication among personnel," added Felix.

PPM is a system that provides manufacturers with the ability to manage, monitor and optimise plant operations. Due to the nature of plants running on a continuous basis, shift changes are extremely common, and it is important to ensure that the necessary information is shared with the next shift, especially if any issues occur.

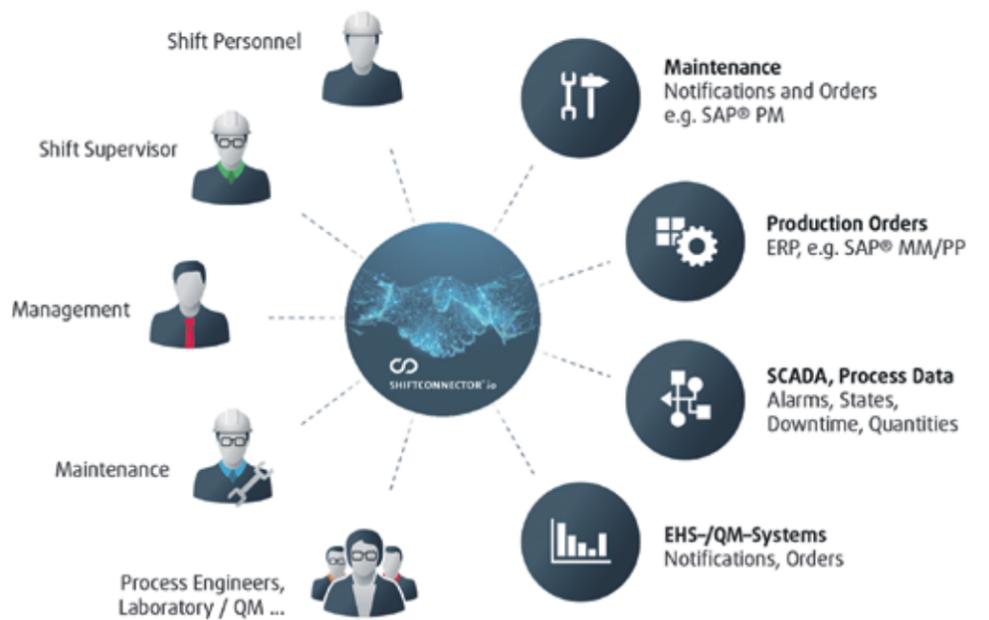
Shiftconnector is a PPM system that provides a new level of networking in shift operations, facilitating the efficient transference and accessibility of vital information and data in real time. Furthermore, important information is preserved efficiently and is easily accessed by relative personnel. The system has also been designed to be extremely user friendly.

"We understood that the user acceptance is really key when you provide a software solution, and so we always had a focus on the user friendliness of our software. We developed a solution which is easily configurable to all the specific needs of our clients. We also have a very strong implementation approach

with our experienced consultants, who really understand the specific needs of our clients and how to transfer that into a solution," said Felix.

Recognised, trusted and implemented by many well-known companies and industry leaders, eschbach's system is used globally to digitalise pharmaceutical and chemical manufacturers' processes.

As a result, eschbach has seen a considerable uptick in industry recognition of its



system and the advantages of using it. Felix elaborated, "Due to COVID-19, companies are recognising that communication is essential, especially for pharmaceutical and chemical applications. With Shiftconnector as a PPM solution chemical and pharmaceutical companies can establish one single point of truth of information within their operations."

Felix continued, "In the process industry in particular, there is an understanding that frontline workers are essential workers as they can not shut down the plant, so they need to get operations up and running. Here, communication is paramount. If the plant manager works from home, for instance, and operators are based in the plant and there is a paper based documentation system, or if information is somewhere hidden on a file drive or Excel spreadsheet, then it's not possible to keep the communication and information efficiently. Through COVID-19 our customers really understood that communication is of the utmost importance and that there are better solutions available than what they currently use, and they realised the value of implementing a solution like ours."

Indeed, the demand for an interactive management platform has increased significantly since the COVID-19 pandemic, which highlighted the advantages of digital communication across manufacturing teams.

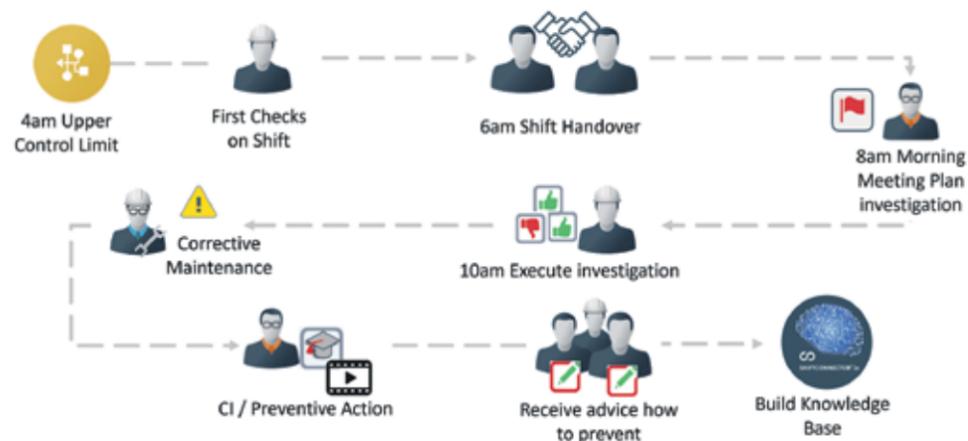
"As a company we also had to switch to remote implementation of projects, which was a good experience to get people engaged and on board in a new way," added Felix.



Through constant development and evaluation of its software, eschbach is consistently adding new applications to its system. One of these includes the launch of the Shiftconnector Go Mobile Rounds application, which is designed to seamlessly connect field workers with board operators using the Shiftconnector platform for routine actions and compliance management. The app is available on iOS, Android, and Windows, providing access via the user's mobile to report activities directly no matter where they are located. The app boasts major advantages for workers, enabling them to conduct daily inspections from any location throughout the plant and improve communication with central operations.

Eschbach has made major strides since its inception, growing from a shift handover solution to a full PPM platform and providing its newly refined solution on a global scale to major players in the industry. These client wins are an example of its rapidly growing industry recognition for the wealth of advantages that its software provides. As the company plans for its future, eschbach is continuing to evaluate its software and search for new ways to improve its services for its clients.

www.eschbach.com/en/



Improve reliability

MACH 2022 proves major catalyst for manufacturing investment

MACH 2022, the largest display of new machinery and manufacturing technologies under one roof in the UK for four years, lived up to its billing as a major catalyst for investment with scores of exhibitors reporting strong sales and positive interest in their products during the five-day event at Birmingham's National Exhibition Centre from 4-8 April 2022.

And in a shot-in-the-arm for both the manufacturing industry and the exhibition itself, MACH organiser, the Manufacturing Technologies Association (MTA) has reported that advance sales for the 2024 event have set a new record, with manufacturers keen to exploit the opportunities created at the 2022 show.

Although final figures are still being collated, footfall at MACH 2022 is predicted to be largely in line with



the last live event in 2018, which considering current external factors is a considerable achievement. This despite the footprint of the show being reduced. One encouraging sign was that the number of visitors per square metre of exhibition space was up compared with 2018.

Another gratifying fact was the growth in the number of students visiting the show, especially in the Education & Development Zone, which was specifically designed to attract young people & to show them how rewarding

a career in manufacturing can be.

While there was an absence of some international visitors caused by the lingering effects of the pandemic, the level of business transacted during the week-long event, while still being calculated, is expected to be significant, with many exhibitors reporting strong sales as a result of appearing at the show.

MACH 2024 takes place at the NEC in Birmingham between 15-19 April 2024. This is our pick of the best exhibitors from this year's event, listed here in alphabetical order: Abrasive Power Tools Ltd, Cadline, Midland Eng Limited, Morgan Rushworth, Press Techniques Ltd, Q-hub, Rolla-V, Simply Asset Finance, Starrag & Sunnen. Further details can be found on this page and the next.

www.machexhibition.com

Rotary table repair specialists



Midland Eng Limited specialises in the sale, service, repair, refurbish and maintenance of all rotary tables from its workshop based in Chesterfield.

Its comprehensive services can be carried out either onsite or in house and is a vital part of the up keep and maintenance of all CNC machines. Midland Eng Limited carry out all services on all makes and models of rotary tables and can predict issues before they happen. This is done by testing and re calibrating all aspects of the device in order to produce a full report of data. This data is then used to carry out pre-planned preventative maintenance, helping to avoid unexpected breakdowns.

Its years of experience working in the Aerospace, Automotive, Medical and Nuclear industries has enabled the company to deliver an unrivalled level of knowledge and skillset required to keep other businesses in production.

Midland Eng Limited acts as the UK agent for both Zeatz.es and MK Coin enabling a partnership that strengthens their level of service against any competitor. Both these companies manufacture all their products in the Basque region in Spain where they are ideally located and connected to many

industries leading machine tools dealers.

As the first company on a national level to specialise in bespoke designs for rotary tables and dividing plates, Zeatz.es has 60 years' experience serving the machine tool sector. Manufacturing out of its own engineering department that develops innovative technical solutions from the smallest rotary tables to the biggest, Zeatz.es manufacture rotary tables to all industries including Oil & Gas, Automotive, Aerospace, and Nuclear.

MK Coin provide solutions aimed at optimising the production processes of your machinery to obtain greater profitability. MK Coin manufactures and distributes chucks and other work holding solutions such as face plates, adaptors, box jaws and more.

Contact
M 07908 087265
service@midlandengineeringlimited.com
www.midlandengineeringlimited.com



Starrag's successful show

Starrag UK reports a very successful MACH, with a constant stream of visitors to the stand – both potential new customers and existing Starrag users.

They learnt about the company's latest machines, including Bumotec's new cost-effective 191neo mill-turn centre for small, complex parts, and at how Starrag's 'Engineering precisely what you value' slogan continues to help companies of every size achieve significant bottom-line rewards when using machines of Starrag's product ranges Berthiez, Bumotec, Dörries, Droop+Rein, Ecospeed, Heckert, Scharmann, SIP and Starrag.

Targeted particularly at users in the medical, luxury goods and micro-mechanics industries, the new seven-axis Bumotec 191neo can accommodate bar of 42mm, 50mm and 65mm diameter, and with up to 90 tools and intuitive HMI control system the machine will enable users to achieve a new standard in unrivalled cost-per-parts for high added-value small components produced in a single set-up.

Attendees also heard about Starrag's new Aerospace Competence Center in Switzerland, a showcase of machines and their capabilities, as well as the accompanying technologies, required for the unrivalled machining of all manner of aerospace/aircraft workpieces.

Aerospace, medical and luxury goods are, of course, core industries for Starrag – but so, too, are energy, transport



and industrial components and, says Lee Scott, Starrag UK Director for Sales and Applications, "And at MACH, visitors from all these sectors learnt just how affordable many Starrag machines are!"

Contact: Lee Scott
T 0121 359 3637
lee.scott@starrag.com
www.starrag.com

Rolla-V: Press Brake Tooling

Rolla-V is a UK-based Press Brake Tooling manufacturer, so exhibiting at MACH 2022 was a perfect opportunity as it was so close to our Black Country Factory. We showcased our unique range of reduced making tooling, that offer the smallest flanges available and stops distortion around holes and cut outs, ideal for fabricators working with stainless steel.

The big show stopper was the world's first modular CNC controlled adjustable Rolla-V, which can bend up to 20mm thick material and change 'V' sizes from 55mm to 142mm at a touch of a button, ideal for deep radii and channel bending in one hit.



Rolla-V is the global centre of excellence for Press Brake Tools and bending technology. We supply tooling throughout the world

direct to machine manufacturers and end users from our state of the art facilities which reflect the tradition of generations of engineering in the industrial heart of the UK.

Our tools fit every Press Brake available including Amada, Trumpf, Bystronic, LVD, Safan, Adira, Durma, Bakal, etc. We also supply Roller Press Brake Tooling, Laser Consumables, Punch Tooling, Panel Bending Tooling, Guillotine Blades and manufacture bespoke special press brake tools to your drawings.

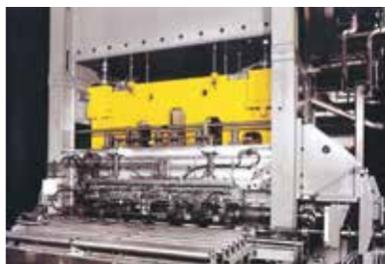
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Eco-friendly press manufacturing: ECO80

Press Techniques Ltd was set up over 30 years ago as primarily a service company for the power press industry, but now also is innovative in producing high quality and high specification new build bespoke metal working machinery, from concept to first off components, while still providing a refurbishment service of customers' existing equipment or sourcing donor machinery to fit customers requirements now rebranded as ECO80.

Rebranding press refurbishments gives a massive reduction on the carbon footprint as appose to a new build with a saving of up to 80% energy costs, also giving financial incentives.

We recycle all major original, quality sourced parts such as crankshaft, machine body, slide ram and flywheel and enhance the machines



with the latest technologies in electrical, pneumatics, hydraulic, and mechanical equipment.

Mr Alan Penn is a member and sits on the council of the MMMA (Metal forming Machinery Makers Association). He said, "We promote where possible the continuation of engineering

in our sector and stand for the interests of the UK's power press makers."

Our continuation to develop new ideas and technologies, our latest development, Self-Contained Servo Drive CLDP (Closed Loop Differential Pump) hydraulic drive press is a hydraulic linear access suitable for all application with high density and high dynamics consisting of a servo motor, internal gear pump and directly linked hydraulic cylinder, giving a compact and closed system eliminating the requirement for a tank or external power pack and this if required to be interfaced to automated systems or stand-alone machine.

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Q-hub launches compliance and automation platform

Q-hub software has launched to help companies throughout the UK from logistics, to manufacturing and more, maintain compliance, digitise activities and automate for the future to improve bottom line returns.

Prior to launch, the company's founders, E.Cohen and E.Brice, both manufacturing engineers with over 25 years experience in heavily regulated industries such as Aerospace and Automotive manufacture, were fed up with the amount of time, complexity and inflexible nature of other systems out on the market.

The company and software, however, have been created to make compliance easier to manage and more effective, to really help SMEs cut costs and improve the products and services they provide, without breaking the bank.

Based in Bristol, Q-hub is set to change the compliance sector & bring automation into the hands of SMEs, with companies already seeing a saving of over 75% on their previous compliance costs.



With companies of all sizes able to manage their ISO requirements, through its unique hubs for document management assets and audits, don't leave your compliance to chance.

To find out more, visit: www.q-hub.co.uk or contact: customercare@q-hub.co.uk and arrange a demo or call 0330 118 0712.

Innovation in honing technology

Following extensive research and input, Sunnen launched an innovative new series of honing machines.

This series features a new Beckhoff-based industrial control, designed to include EtherCAT industrial communication for fast response time and increased process control. On a large touch screen, you have the capacity to store custom operations. Intuitive adjustments as well as tool selection, dwelling, setup mode, handling, expansion/retraction of tools, and more are all adjusted via the touchscreen. This means new operators are trained quickly in complex or difficult-to-hone parts.

The SV3000 series incorporates synchronised servo stroke and spindle motors that enable constant crosshatch finishes. The drive technology also enables to hone only on the pull stroke to easily produce custom profiled and tapered bores. It also includes a load-sensing feed system that maximises productivity and produces tolerances below 0.5µm.

In addition to an all-new exterior, the newest ergonomic and safety features have been incorporated. A centrally mounted operator station can be positioned to suit the operator and floor space.



Sunnen is a total bore solutions provider, including the tooling, abrasives, gaging and cutting fluids. Sunnen will help determine the correct tooling and abrasive combination for maximum profitability of your honing operation. Contact us!

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The ROTOmax 2.0

The ROTOmax 2.0 is a powerful and universal system unit in which the drive and the tool are ran separately using a flexible shaft.

Due to the fact that it can be used almost anywhere, the ROTOmax 2.0 is put to work in foundries, tool production, the pharmaceutical industry, food tech processing plants, aviation technology, boiler making and in mechanical workshops.

Applications: Cutting, machining, grinding, rust removal, brushing or polishing.

The ROTOmax 2.0 – at a glance

- Speed range: 500-13,000rpm
- Power input: 2,000W
- Power output: 1,650W
- Mains voltage: 1 x 230/240V (50/60Hz)
- Overload protection: yes



- Weight: 28kg
- Sound pressure level: 77dB(A)

The ROTOmax 2.0 – A variety of models

A flexible and efficient tool that adapts perfectly to the operating processes it is used in as a result of its three standard installation modes:

- Pedestal F
- Trolley STM
- Suspended mount HM

The sophisticated modular

structure of the ROTOmax 2.0 is what makes it an all-rounder. The combination of a smart drive and a wide variety of handpieces enable it to be used in almost any scenario. The ROTOmax 2.0 optimises processes and thus saves on costs. The ROTOmax 2.0 is the only solution for processing surfaces mechanically in both industry and trade

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www.abrasivepowertools.com

Morgan Rushworth: Celebrating 150 years

2022 is a milestone year for Morgan Rushworth. As we celebrate 150 years of business, we reflect on the journey from our humble beginnings as a plate machinery manufacturer through to where we are today. It's a path of continual innovation that has led us to become a leading supplier of high quality, high performance, specialist sheet metal and fabrication machinery, built to exacting specifications and standards.

We thoroughly enjoyed exhibiting at MACH 2022 and our stand featured some of the best metal fabrication machinery in the industry, all available for live demos, with visitors experiencing first-hand the capabilities of each Morgan Rushworth machine and the impressive operational benefits each delivers.

We continue to support the UK manufacturing and fabrication industries with our state-of-the-



art Morgan Rushworth press brakes, laser cutters, plasma cutters and guillotines, all of which are comparable in precision, performance and longevity with the best in the market but at a more competitive cost. Our expert advice and outstanding service is provided as standard too.

Are you looking to invest in new machinery, why not get in touch with our team today? Contact via email: sales@morganrushworth.com or telephone 01785 247575.

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SUNNER

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Cutting
Roughing
Descaling
Brushing
Polishing



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People making business work



Simply Asset Finance (Simply) is an innovative company with a wealth of experience, founded by a team of industry specialists who recognise the need to move away from traditional methods to provide customers with a better and simpler financial experience. Our aim is to look after our customers throughout the whole cycle, positive and negative, and form partnerships based on trust where we work together as a team.

Whether you are looking to purchase new or used equipment, or simply release funds from existing assets, we are here. Simply aims to help SMEs achieve their aspirations by providing financing for the assets they need to be successful. The focus is on collaborating with our customers, with every solution, bespoke to their requirements and situation and being supportive every step of the way. We specialise in traditional hard assets across manufacturing, transport, agriculture, construction and recycling, who we consider to be the life blood of the UK economy.

We understand the day to day challenges that businesses face and support our customers in good times, as well as, when times get tough. We recognise the importance of quick decisions and how vital it can be to receive funds promptly and, by developing long term friendships with our customers, we maintain a thorough understanding of their business and its future goals.

T +44 (0)203 369 6000
info@simply.finance
www.simply.finance

Our proven process: How UNISIG leverages experience and expertise to solve customer challenges

For over 40 years, we've helped our customers achieve success in deep hole drilling, providing them with the machines, automation and support they need to be competitive and profitable.

We have found that the initial energy we and our customers spend at the beginning of a quoting process pays off throughout the entire project, from inception to installation. We take a systemised approach not only during this critical phase but also throughout the entire sales process. This ensures there are no surprises and that our customers know exactly what they can expect when starting discussions with UNISIG about their gundrilling and deep hole drilling needs.

This is our approach at UNISIG:

1. We listen to our customers, ask questions and understand what they need.

This may seem obvious, but often the temptation is there to just skip to a quote because we think we know what is needed after a brief discussion. Sometimes that is true, when the application is straightforward and familiar, or it is something we have a packaged solution for. We always try to make the quoting process quick and efficient, but there are times when the application deserves a more in-depth conversation. Our salespeople and engineers listen very carefully and often pick up on small details – a specific tolerance, material condition, process requirement or a future need for flexibility – that may change our recommendations.

When it makes sense, our experienced sales team or engineers will visit a customer to see what is needed firsthand. Whether a site visit or just a virtual meeting, this initial investment of time to clarify the need saves the customer money and provides them a truly valuable solution.

2. We first identify a standard solution from our product line that can be applied at the lowest cost and shortest delivery possible.

At UNISIG, our product development mindset is to systemise solutions from our experience in many different industries, make them automation ready and embed application flexibility whenever possible. We invest millions of dollars annually in our product line and related spare parts, giving us a strong starting point for new applications. Our standard product line encompasses much more than machines, including standard automation, workholding, accessories and tooling that we can offer as part of the solution.

Once we have identified a standard machine as a starting point, our engineers seek out smart, practical ways to meet the customer's application needs. The goal is to innovate within the machining operation planning, work holding or automation, as opposed to engineering a completely special solution without first exhausting opportunities to solve problems with standard products.

For our customers, this approach provides them a reliable, standard machine that can be used for many years and that has the built-in flexibility for easy re-tooling to adapt to future needs. For us, initially working within the boundaries of our catalogue cultivates new ideas that can then be applied to improve our standard products as well as help us direct future research and development budgets.



3. If a standard solution isn't available, we consider a customised solution and we stand behind it.

UNISIG is very good at building customised machines, and we do so often. Once we and our customers agree that a special solution is needed, we move forward with a great deal of confidence and experience. We start by evaluating how we might approach the design using standard modules or proven concepts, thus eliminating long debug cycles and/or high costs. Then we use our mechanical and electrical engineering disciplines to virtually test the new machine before we build it.

One of the key reasons our customers are confident moving forward with a UNISIG custom machine is that they know we will stand behind it and that we have substantial capabilities to ensure it always exceeds their production expectations. We approach these special projects with the mindset that a custom machine will be used for decades in production, which is why we provide the same documentation and long-term technical support for all our machines whether standard or custom.

4. If a commodity solution is readily available, we recommend that rather than upsell a machine the customer doesn't need.

We build machines that can gundrill or BTA drill deep

holes that are impossible to drill on machining centres. Even if it may be possible to drill some deep holes on a CNC machining centre, our machines have the power, speed, dimensional accuracy, spindle density, coolant systems and process control that will improve productivity, tool life and reliability. Typically, though, when a customer comes to UNISIG with a specific part need, at that point they've most likely already struggled with a conventional machine and realised that a deep hole drilling machine is obviously the way to go.

However, our team knows how to identify whether or not

an application would truly benefit from a UNISIG solution. When it wouldn't, we will suggest viable alternatives. It's not that we don't want to sell a machine. But the fact is that our experience has shown that at some point the alternative-solution direction becomes obvious, and we want to make that apparent early on in the process so as to avoid wasting a lot of our customer's time.

Our customers expect the best from us, and we believe that our proven process ensures we never disappoint. Our goal is to leverage our core values to serve our customers as best we can and build strong, productive relationships for years



to come.

UNISIG is exhibiting at the AMB show in Stuttgart, Germany, 13 - 17.09.2022, Hall 9, Stand C11. Please contact us at: www.unisig.com

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Machines • Tools • Automation

UNISIG machines, engineered and manufactured in the USA



Selling second-hand machinery as an opportunity during difficult times



Construction industry under pressure

The building sector is struggling with surging prices for energy and materials as well as a lack of resources. In addition to this, existing contracts may be cancelled or quotes can no longer be submitted. Selling used construction machinery can kill two birds with one stone: firstly, budgets are freed up in the short term in order to bridge any gaps. And secondly, reusing equipment helps achieve resource independence.

A good start to the year, followed by a sharp decline 2022 got off to a promising start for the construction industry: lots of contracts and increased revenues. In January and February, building firms were able to take advantage of the good weather to fulfil existing orders. The figures from Germany's Mechanical and Plant Engineering Association (VDMA) for 2021 fit this narrative and reflected the positive sentiment in the construction industry.

The mechanical and plant engineering industry also had full order books last year. With an upturn in orders of almost 60% compared to the previous year, the building and construction machinery sector took fourth place in the incoming orders ranking of German mechanical engineering companies.

Then came the war in Ukraine, resulting in materials and energy insecurity as well as surging prices. There is also a demand risk for the construction industry. Most raw materials suppliers are only quoting prices that are updated daily or no longer making pricing commitments at all. This brings huge financial risk for building firms when submitting quotes, because clients want security and rarely agree to price adjustment clauses. Around a third of German construction companies are currently no longer submitting quotes. And the situation for existing orders isn't any better, because property developments are increasingly being cancelled or postponed.



Resource independence means security

Everyone is talking about this principle. Especially in economic sectors such as construction, which are heavily dependent on resources. But how can independence be achieved? In terms of construction, sustainability means that developments should be planned in such a way that they respect the environment and can be used for years to come. In order to complete a building's life cycle, its possible demolition should be taken into account, including the recycling of construction materials.

Besides the construction materials cycle, the machinery cycle must also be closed. Buying and selling second-hand machinery makes an important contribution to this. Used construction machinery, surplus equipment and second-hand construction vehicles change hands on online auction platforms such as Surplex.com.

Removing financial obstacles

It is a strange time in the construction industry: from a shortage of skilled workers at the beginning of the year to the threat of short-time work in the space of just a few weeks. So

anyone now looking to quickly liquidate capital should rely on experts when selling their used systems. If required, fully depreciated machinery can be sold directly to the industry auction house, Surplex, at fair and transparent terms. It will then assemble the acquired assets for auction, thereby offering buyers an attractive collection of construction machinery. This will help to overcome difficult times in the short term and resolutely anticipate the predicted slump.

About Surplex

Surplex is one of Europe's leading industrial auction houses and trades worldwide in used machines and factory equipment. The 16 language www.surplex.com auction platform sees around 50 million page views annually. More than 55,000 industrial products are sold each year in over 500 online auctions. With its registered office in Düsseldorf, the company maintains offices in 15 European countries. Over 200 employees from 20 different nations generate an annual turnover of more than 100 million euros.

www.surplex.com



Metering accurate steam use in dynamic industrial processes

In commercial brewing — as with other food, chemical, or industrial processes — control over steam heating can have significant influence on process costs and consistent quality in the final product. But its measurement and control can also be impacted by unique circumstances of those applications. Here is how changing just one aspect of steam measurement brought economy and consistency to multiple aspects of a brewer's overall process.



Don't compromise your process

In general, having uninterrupted, accurate steam measurement can make noticeable differences in the viability of specific processes and other facets of business operations:

- **Steam Costs** – With energy use being such a huge factor in so many industries and prices rising significantly, having pinpoint control over steam measurement can minimise excessive consumption and its associated costs.
- **Process Efficiency** – Retrofitting existing temperature-critical applications with the addition of a compact drop-in meter unit can refine steam measurement and control to improve process efficiency and consistency without extensive capital investment – even in space-constrained applications.
- **Product Quality** – The volume, timing, and consistency of steam delivery can impact the quality and consistency of the final product. Problems can manifest themselves as noticeable differences in physical composition or taste related to inconsistent steam heating.

Each industrial process can have its own unique demands that impact the rate and volume of steam required and the way in which it is measured. As with other gas or liquid process line measurements, steam piping's size, shape, and constrictions/restrictions can impact the accuracy of a meter's output. Paying attention to such influences can lead to better, more accurate, and more cost-effective meter selection.

In food and beverage applications, however, deviations in precise steam measurement can do more than just impact production costs and profit margins. Resulting inconsistencies that influence the taste or texture of a product can actually damage consumer perceptions and brand reputations. In the brewing industry specifically, the acquisition of smaller, older brewing operations with existing structural limitations can create challenges for global brewing companies trying to standardise on a common process or equipment layout at all their breweries.

Escaping the vortex of brewing problems

Brewing beer is a prime example of how steam measurement can impact production conditions. In the following example, a brewery switching from vortex meters to V-Cone differential pressure (DP) meters (Fig 1) benefitted from the opportunity to refine steam measurement and provide more finite control over its wort boiling process.

Accurate temperature control is a critical to any wort boiling kettle, since it is a sensitive process and one of the most energy-intensive aspects of beer production. In this case, the kettle is a large vat with tubing coiled around the exterior wall. The tubing carries a mix of steam and water to heat the wort in the kettle. Modulating the proportion of steam vs. water in the tubing enables the brewery to control the thermal transfer profile of the batch process.



The wort boiling process demands a high volume of steam in its initial phase, enough to bring the large batch up to temperature quickly but without burning the wort at points of direct heat transfer. Once the entire contents of the wort kettle reach a boil, a much lower rate of steam feed can then be used to maintain a desirable temperature for the remainder of the heating cycle.

Variability in steam demand across the 12 hour process – plus the fact that the accuracy of the previously installed vortex meter suffered when running at extremely high or extremely low flow rates – exacerbated the difficulties of steam measurement. Inaccuracy at the high flow rate needed to bring the wort boiling kettle up to temperature could cause overconsumption of steam and even result in some burning of the wort. Also, once the wort kettle achieved a full boil, inaccurate readings from the vortex meter often resulted in cyclical overshooting/undershooting of the ideal steam flow rate as the system tried to maintain a consistent temperature. This was particularly troublesome at the lower flow rates (<300m³/hr) demanded for about half of the total heating cycle. Unfortunately, at those flow rates, eddies and irregularities in flow through the vortex meter caused the resulting calculation to become inaccurate. Even as some unknown volume of steam was still getting through, the meter often registered zero flow. When that happened, the brewery was forced to manage the process by instinct.

The same vortex meters had performed appropriately in larger brewery installations having sufficient lengths of straight-run piping but could not generate accurate readings at low flows in a more condensed environment crowded with fittings and tight turns. Turbulence created by the tight piping configuration contributed to occasional loss of readings. The dropout of those readings left the brewery with a blind spot in the control of their heating process.

Since steam is a gas, whose volume is affected by temperature and pressure, the raw flow readings from the vortex meter required separate

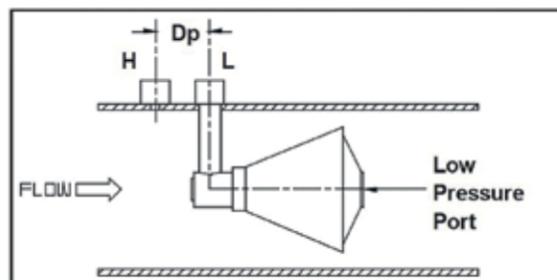


Fig 1 - A V-Cone DP meter compares the differential between the high-pressure flow (H) before the cone and the low-pressure port opening (L) on the back of the cone. Because the cone forces turbulent flow out to the periphery of the pipe, the meter is unaffected by turbulence generated from turns or obstructions located immediately upstream of the meter



Fig 3 - The V-Cone centrally located within the pipe reshapes the upstream velocity profile of the steam as it approaches the meter (left), flattening it into the shape of a well-developed profile. The short vortices formed at the back end of the cone (right) create a consistent pressure profile to establish the differential pressure between the flow at the front of the cone and the open port at the back of the cone

compensation calculations to be interpreted accurately. In this case, separate inputs from the vortex meter, a resistance temperature detector (RTD), and a pressure transmitter all feed into an algorithm in the digital control system (DCS), where the compensating calculations are performed.

By contrast, the replacement V-Cone meter included differential pressure, temperature compensation, and pressure compensation in one unit, so it could calculate and transmit accurate readings even at low flow. The unit in turn provided a temperature-compensated and pressure-compensated 4-20mA signal to the DCS system. It used two DP cells – one focused on the low range (0 to 50%) and one on the high range (51 to 100%) – to deliver +0.5% accuracy from zero to full scale (10,000m³/hr) with turndown ratios as high as 50:1.

Favourable performance = favourable outcomes

Once the V-Cone concept was proved at the first brewery, it was then rolled out to similar applications at several related breweries. The practical outcomes gained from switching to the V-Cone meter (Fig 2) provided the brewer with multiple benefits:

- **The high turndown ratio** on the V-Cone operation lets the brewer maintain precise readings at high temperatures to bring the wort to a boil and constantly refine the simmer to maintain a lower temperature toward the end of the cycle.
- **Knowing the correlation of steam volume to process temperature** provided a timelier understanding of the heating process, without delays that can be introduced by direct temperature sensing methods.
- **The breweries experienced an average 40% reduction in steam consumption** derived from the fact that they:
 - were not running the boilers unfettered at maximum heat to start the process,
 - were not overrunning targeted boil temperatures in the middle of the process, and
 - were able to use proportional integral derivative (PID) control to sustain a lower but more consistent cooking temperature after the initial boil.
- **A totaliser on each V-Cone package collected analogue readings at user-directed intervals** and wrote those readings to digital files for process monitoring and subsequent analysis.

Beyond process efficiency, another valuable advantage to global brewing organizations is the ability to maintain a very steady and repeatable process from brewery to brewery, country to country, and continent to continent. Doing so helps them maintain consistent product quality and a clean, crisp flavour for their flagship brands.

How a V-Cone meter reduces compromise

Whether an application involves steam, gas, or a non-viscous liquid in brewing or other industrial processes, the nature of a V-Cone DP meter eliminates many of the limitations of other meter designs. Because the shape of the cone within the pipeline conditions the flow around the periphery of the pipe

(Fig 3), it eliminates any pre-existing turbulence in the upstream flow to protect reading accuracy. This makes the V-Cone design an attractive and affordable choice for +0.5% accuracy even in congested piping configurations featuring elbows (single or double), valves, step downs, and other structures that can create havoc for other types of meters.

Conclusion: Better brews, better business results

Whether changing demands are due to organic growth or corporate acquisitions, being able to improve steam measurement and control with a meter that is more compatible to the process enables breweries and other process industries to optimise both product quality and production efficiency. The V-Cone meter's ability to fit easily into existing infrastructure can also contribute to both improved capital expense (CAPEX) and operating expense (OPEX) spending.

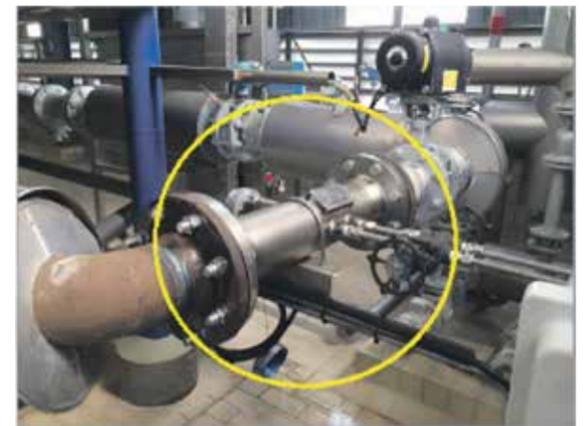


Fig 2 - The V-Cone meter circled in this photo eliminates the need for extended straight pipe length requirements upstream and downstream of the meter. The previously used vortex meter still visible in the background had suffered from turbulence caused by the lack of sufficient straight-run piping

Fitting a V-Cone meter spool piece as short as 18" into an existing piping layout can eliminate the need to expand, move, or replace existing piping infrastructure, with all its attendant CAPEX equipment acquisition and labour costs. In turn, improved steam measurement accuracy not only reduces the OPEX cost of wasted energy consumption, but it can also minimise costs for extra quality control testing or even the dumping of bad batches.

Equally important, providing the information needed to match control of the heating source more closely and more consistently to the dynamics of the process provides greater consistency. That helps to ensure more dependable outcomes that standardise product quality, maintain high customer satisfaction, and reinforce the brand reputation of the manufacturer.

If you would like more information regarding this article, please contact us at: info@able.co.uk or +44 (0)118 931 1188.

ABLE
Instruments & Controls

PET recycling label innovation

CCL Label, the world's largest converter of pressure sensitive and extruded film materials for decorative, functional and information labels, has unveiled a new generation of their EcoStream® labels that support the recycling of PET bottles at a very high quality level.

They are made from floating low-density polyolefin material that separates very easily from the heavier PET flakes in the sink/float process step at the sorter and recycler – which results in the yield of clean PET flakes that can be recycled back into new bottles, closing the loop.

"The official endorsement by both the European PET Bottle Platform (EPBP) and the Association of Plastic Recyclers (APR) in the United States underpins the performance of the label in the recycling process and the compatibility with existing recycling streams and technology," says Reinhard Streit, Vice President and Managing Director Food&Beverage Europe at CCL.

The EcoStream® SP (Shear Performance) clear & opaque white pressure sensitive label is a further development of the existing EcoStream version, that has been successfully supplied to the international beverage



market for many years.

Freshly blown and immediately labelled bottles can

induce folds or bubbles on regular labels. EcoStream® SP pressure sensitive labels are developed to keep perfect labelling through flexible properties in particular suitable on post-shrinking PET bottles.

All other valuable properties of basic EcoStream® labels are maintained unchanged and allow perfect and clean separation without contamination or discolouration neither of the washing bath nor PET-flakes.

For more information, contact us at: beverage@cclind.com

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TERRA, a line of sustainable paper packaging solutions

In a world where environmentally-friendly packaging is becoming the new standard, it is time to switch to packaging with better recyclability options and reduced carbon footprint.

Neenah Coldenhove proudly introduces its new product line Terra.

The Terra product line consists of a range of repulpable, compostable and therefore recyclable papers equipped with high barrier properties.

Terra papers offer excellent barrier properties against water, moisture and grease. In addition to that packaging produced with Terra are heat sealable and printable.

Terra endeavor is replacing PE coated papers with more sustainable solutions. Using Terra for your packaging can lower the impact on climate change with 35% compared to PE coated packaging.

Further, the product is certified with the OK Compost S1378 certification.

It is our responsibility to design and manufacture products with the lowest possible impact on the environment, be it in the pre-use, use and post-use phase. With our partners, we strive for sustainable manufacturing of high-tech barrier papers with the best recyclability options.

Terra finds its applications in food on the go



markets like bake-off and fast food. Further in agricultural applications like packaging of flowers, vegetables and fish.

For more information about Terra, please visit: www.coldenhove.com/products/terra

Berry's quality PCR meets CSR and legislative requirements

As businesses increasingly seek to incorporate post-consumer recycled (PCR) material into their plastics packaging, both to support their own CSR objectives and to meet forthcoming legislation such as the UK's Plastics Tax, we can offer PCR solutions for all their standard and custom products made in HDPE, PET and PP, in quantities from 30%, subject to availability.

Importantly, the companies have secured consistency of supply for the recycled material, while its high quality means packs incorporating the material remain fully functional and fit for purpose. In addition, with HDPE and PET being widely recycled while PP is

recyclable where local collection facilities exist, packs can be recycled again, closing the loop to provide an ideal demonstration of the circular economy.

Berry M&H and Berry PET Power offer an extensive choice of bottles, jars and closures for a wide variety of end markets including personal care, food and beverage, healthcare, homecare and commercial.

To discuss your PCR requirements or find out how to incorporate more recycled content into your products, contact our team on: 01502 715518 or visit: <https://mhplastics.com>



Process & Control

Hydrogen Compatible Pressure Measurement

Hydrogen offers a cleaner, secure and more affordable source of energy with the potential to drastically reduce and tackle CO₂ emission levels.



With that in mind ESI are committed to offering a product range that is not only versatile and environmentally friendly, but also offers the same outstanding performance and stability that they are known for.

What is Hydrogen Compatibility?

Samples of the materials used in the manufacture of the range were tested based on ISO 11114-2:2017 in accordance to the European Regulations EC 79/2009 and EU 406/2010 to determine an 'embrittlement index' of the material when placed in a saturated environment over extended periods of time. Results have provided a pass rating to the compatibility of the material against Hydrogen.

The material

The pressure diaphragm and threaded pressure port are machined from a specialist Titanium alloy specifically designed to withstand harsh and demanding environments. This, along with the non-oil-filled sensor and high integrity stainless steel housing results in a robust and versatile unit that offers excellent media compatibility across a range of environments.

Applications

Hydrogen is already used in a growing variety of industries, and although the Oil & Gas sector still remains the predominant source of energy supply and usage, there are significant efforts being made to find an alternative.

For more information on Hydrogen, contact ESI on: 01978 262255 or email: sales@esi-tec.com

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PPMA Total Show 2022

PPMA TOTAL Show 2022, the UK's largest processing and packaging machinery, robotics and industrial vision event, is returning to the NEC Birmingham this autumn, and will take place from 27th to 29th September. The three day event will provide a platform for innovation and live demonstrations of production machinery, act as a central hub for networking, expert knowledge and information share as well as present a rich showground of discovery for visitors seeking new solutions to enhance business performance.



Comprising over 350 exhibitor stands, representing 2,000 brands and incorporating major exhibition brands Pakex and Interphex, visitors to Hall 5 will have unparalleled access to the most comprehensive collection of industry-leading production machinery and smart manufacturing equipment all under one roof. Showcasing the very latest in production-efficient technology, robotic and vision systems combined with state-of-the-art materials, containers and packaging design, the event caters for visitors from a wide range of sectors, including food and beverage, pharmaceutical, toiletries, building supplies, pet care, FMCG and contract packing.

PPMA Total Show 2022 will also play host to the PPMA Group Awards. Celebrating the best in machinery innovation, smart manufacturing and business acumen, the awards will be presented to winning and highly recommended companies during the final day of the show.

PPMA Total Show 2022 is free to attend and visitor registration is now open. To pre-register your interest and receive your FREE visitor entry pass, go to: www.ppmashow.co.uk or visit: www.ppma.co.uk for more information.

OnRobot's full palletiser solution



After a warm welcome to our newly released full palletiser solution at Automatica Munich in Germany this year, we are proud to show the software and the palletiser one more time at the PPMA which will be hosted at NEC in Birmingham from 27-29 September. Our palletiser is a powerful, modular palletising system that delivers flexible palletising automation to companies of all sizes. Here we will welcome you with a vast selection of solutions, as well as the Lift100, 2FGP20, pallet station, and our software.

OnRobot's intuitive streamlined palletising setup consists of: **Simple step-by-step setup**

- Cell configuration – setup of all hardware components and positions
- Application setup – box, pallet, and patterns for a specific product

Setup of specific palletising task

- Box setup
- Grip setup
- Pallet setup
- Pattern setup
- Path setup

Easy to setup and change when needed (eg. changing to a new product, a different pallet size or a new pattern on the pallet).

Come and try our easy programming and hear how our solutions can eliminate the three Ds in production: dull, dangerous, and dirty. We strive to reduce complexity and maintain the fast deployment of our solutions. OnRobot Palletising integrates the supported by numerous OnRobot tools.

Feel free to contact us at: north-europe@onrobot.com if you would like to know more, otherwise see you at PPMA. Find us on Stand B110.

Marking 25 years of excellence

For a quarter of a century, Rotech has been providing innovative coding and marking solutions to manufacturers and producers within the packaging industry, not just in the UK but worldwide.

As part of our birthday celebrations, we will be exhibiting at this year's PPMA Show with a new approach to showcasing both our range of feeding systems and printers, as well as a fresh look and feel to the stand.

On-line, off-line, every time

Part of what makes Rotech unique in the coding and marking arena is our ability to cater to both on-line and off-line applications, for both start-ups and international brands.

Our combined 156 years of industry knowledge allows us to

fully address the customers' unique pain points and present them with a cost-effective solution that fits their exact needs.

Our **Stand A31** will be split into two, with one side highlighting our British-made feeding systems, designed for handling and coding a range of packaging in its flat form, and the other presenting our range of compact printing technologies, ideal for easy integration into existing lines, with minimal disruption.

Both our on-line and off-line equipment consistently produce an excellent end product – a perfectly printed date code, batch number, QR code or even full product information – plenty of live samples will be available to view at the stand.

We hope to see you there.



For any further information on Rotech, or any one of our solutions, visit our website at: www.rotechmachines.com

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Fountain Food Machinery is one of the UK's largest suppliers of new and used food processing and packaging machinery.

For over 10 years the company has become renowned as a leading UK buyer and seller of quality used food machinery and has the experience to assist with all aspects of the machinery including sales, servicing and training.

If a customer has any redundant food equipment, then the company will give a competitive price for

it, often quoting from images, or even attend at a convenient time in person. Using its own fleet of fully insured lorries, the company will work around your business hours and will look at anything from single items to whole factory closure.

In addition to purchasing and selling machinery, Fountain Food Machinery offers competitive prices on calibration of metal detectors and scales. This calibration and performance validations service will satisfy all major retailer compliance requirements. All stock can be viewed on the company website,

and machinery is tested prior to delivery. Nationwide delivery is available as well as on-site training for both operatives and engineers.

Fountain Food Machinery can be visited at **Stand E16** of the PPMA Total Show from 27-29th September in Birmingham.

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Palamatic

Palamatic designs, manufactures and provides Materials Handling Equipment and Lifting Technology for reducing manual handling, helping operators to perform tasks safely, removing injury risks and protecting products from damage. The equipment range covers industrial vacuum lifting systems, hygienic lifting solutions and sack opening and processing machines. At the core of the business is the goal to provide systems that work for the operator and task they are carrying out and not to provide off the shelf systems that won't fulfil that. Palamatic deals with most manufacturing industries and are conveniently based in Chesterfield, Derbyshire where they have a 22,000ft² factory and have a sales office and factory in North Carolina, USA.



The company specialises in the manufacture and development of cGMP sanitary hygienic handling equipment, incorporating systems for handling, docking, blending, emptying and transporting all types of stainless steel containers, drums, boxes and sacks and a range of ancillary devices, stainless steel containers and valves for use in controlled and regulated clean process environments.

See us on Stand E22. If you have a manual problem and would like a no obligation sales visit and quotation for a solution, you can contact them at: sales@palamatic.com or telephone +44 (0)1246 452054.

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Worldwide Logistics Ltd

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Contact: Glenn Hayes, Managing Director (pictured)
T 020 3900 3039
M 07495 835061
www.worldwidelogisticsltd.com

The world's first 100% recycled white plastics flooring systems

In this issue of Industrial Process News, we are proud to announce we have chosen to present Abacus Flooring Solutions with our Outstanding Achievement Award for its Specialist Resin Flooring Solutions.

Abacus Flooring Solutions has received a number of awards and accolades over such a short time and its award portfolio boasts many remarkable achievements for the company and all involved. Going above and beyond for every single customer, both in terms of service and quality of work delivered, Nick only had positive things to say about their success. "It's great to be celebrating today with another award, we have won two awards in our first two years and this time it's for Outstanding Achievement. This award is only made possible with the support of our wonderful customers, staff and suppliers. We are consistently searching for the highest levels of customer care every day and, on every project, and this award is a great reflection of the work undertaken to entrench our position as an outstanding resin flooring specialist."

For over 30 years, Nick has been involved in installing industrial resin flooring across a wide range of commercial and industrial environments. It's this experience that has ensured its market leading position, offering the latest products, technologies & bespoke solutions to its customers.

"We have built up a fantastic portfolio across all industries, however, the British Manufacturing Industry will always be a key sector for us," stated Nick Megson, Managing Director at Abacus Flooring Solutions. Nick joined the industrial resin flooring industry in 1989, working for resin manufacturers and resin flooring contractors where he gained



a great deal of knowledge and experience in both parts of the industry. Over his career, Nick has worked tirelessly to promote sustainability and the diversion of trade waste from being sent to landfill. After winning the industry's first environmental award in 2005, Nick went on to receive a number of other awards, with three of those being bestowed at the Houses of Parliament.

Nick established Abacus Flooring Solutions in July 2020, to offer resin flooring solutions across the UK. The company has enabled Nick to continue striving towards delivering environmentally friendly systems as all Abacus flooring systems are manufactured using up to 48% post-consumer recyclates.

The company has grown quickly over the past two years, to which its employees and customers have contributed greatly towards. "Caring, Service, Future. We care for our employees, sub-contractors, and customer's needs. We offer a service where each member of our customer care team is trained to not leave customers waiting and will return quotations within 24 hours. We will endeavour to continue to build a business that we can leave for the next generation, so they all have a future," stated Nick.

Based in Leicestershire, Abacus Flooring Solutions is geographically best placed to reach customers from all over the country. Being able to offer such a unique service underpins the reason why customers stay with the company for many years. "I believe our continued customer service is quite unique, moreover, I'm proud to state we are the only company in the world who can offer a flooring system made using 100% recycled white plastic. That



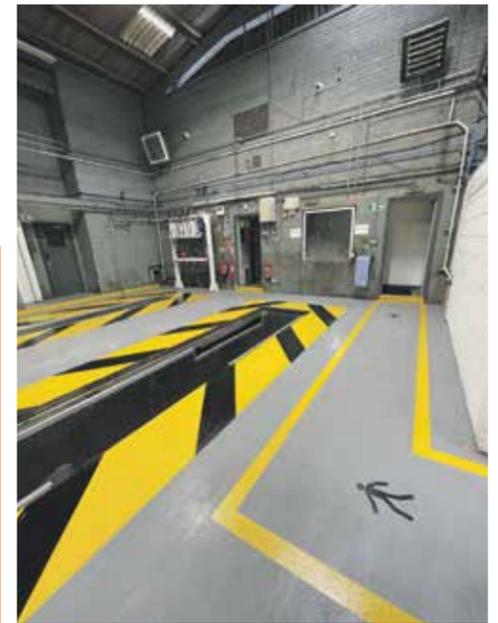
fact really sets us apart from any competition," said Nick.

Nick researched and designed a floor screed that can be used in the resin flooring industry, which instead of using silicone aggregates, is made from recycled white plastics. Compared to silicone aggregates, its less eco-friendly alternative, Abacus's recycled solution instead creates an epoxy self-smoothing screed that works extremely effectively and is made from items such as toilet seats and light switches. By using white plastics otherwise destined for landfill, Abacus were able to form a screed which has since revolutionised the industry. Marked as a world first innovation and a very proud landmark for Nick and his team, sustainability will always remain at the heart of the company. "As the Industry Ambassador for Recycling since 2005, and a Director of our Industry Governing Body, FeRFA, I feel I provide a large amount of my time helping and advising, marking the company as a real asset to our industry," stated Nick.

Starting the business only four months into COVID-19, Abacus Flooring Solutions has gone above and beyond just survival and has surpassed with evidential ongoing growth. From such turbulent times however, Nick believes the company has learnt some valuable lessons that have evidently been reflected through its recent success. "Starting the business only four months into the biggest pandemic known, meant we could sympathise with customers and learn to be patient. I feel that COVID-19 has made everyone a bit more patient and understanding."



Abacus Flooring Solutions offer a resin floor installation that you can rely on. From preparation to installation and after care, its team of highly skilled and fully trained professionals are



on hand to provide the advice and value required from initial contact through to a complete after care service.

From supplying coloured, high build coatings for light manufacturing areas, to busy, pedestrian filled food halls in retail environments, resin flooring can be applied to a range of industries. Abacus Flooring Solutions offer a full range of different systems from coating through to screeds that are specific to the environment to which it will be installed into. What's so unique about its flooring system is that it uses recycled plastic in lieu of quarried materials, which are good, safe materials that would usually just be going to Landfill. This sustainable system negates the need to dig up more land when looking for minerals to be used in the flooring. However, customers can certainly expect more than just a delivery of a resin floor. Nick has served on the Resin Flooring Association (FeRFA) Council for a number of years, making him uniquely placed in the industry to bring a wealth of knowledge and invaluable experience to every project.

In closing, we asked Nick what the plans for the business were going forward, he answered, "To build the business so it is sustainable whereby 50% of the business can be employee owned."

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Snap-on's Level 5™ tool management system

For engineers and technicians working in many industrial sectors FOD will always be a real and present danger. Keeping track of every tool and piece of equipment, especially when several storage cabinets are in use, can be challenging.

Snap-on Industrial's Level 5™ automated total asset management system minimises the risk of FOD by constantly tracking every tool, detecting which tools have been removed or returned. It also enables engineers and technicians to find every tool they need, when they need it, saving time and easing stress.

Engineered to track individual tools by user, without bar codes, scanners, RFID tags or other add-ons, the system works at the speed its users demand. Level 5™ boxes are network ready, using either Ethernet or wireless connection. Powerful



software enables users to review activity at all boxes in their location from one central computer, avoiding the need to inspect each box.

Major benefits of the system include:

- No individual tool scanning required;

- No RFID tags to install or replace;
- No limitations on tool size;
- Intuitive interface, via touchscreen;
- Audible voice confirmation of tool removal and replacement;
- Automatic locking for maximum security;
- Errors announced and displayed to indicate incorrect tool position or advise when a drawer is not closed.

Level 5™ boxes are equipped with Keyless Access Control, giving users the ease of access they need but with security built in. The control system can be configured with magnetic cards, barcodes, PIN numbers and proximity cards.

Visit: www.snapon-industrial.co.uk or call 01536 413904 or email: ukindustrialmarketing@snapon.com

New sensor-based forklift technology

Leading materials handling solutions provider Linde has unveiled a new safety solution for forklift trucks that



is designed to prevent accidents involving pedestrians in the warehouse environment, a major challenge in intralogistics operations.

It has been reported that 1,300 workers in the UK are seriously injured following accidents involving forklift trucks and this includes a significant number of pedestrians. An analysis of RIDDOR reports into forklift truck accidents by the British Industrial Truck Association (BITA) also revealed that nearly 75% of 'impact with a third person' events involve pedestrians that were completing tasks unrelated to the immediate truck operation at the time of their accident.

Linde's new motion detection sensor-based technology stops the forklift reversing after detecting movement behind it and will sound a warning to alert both driver and pedestrian. It is being offered as an option for the company's new series of counter balanced trucks but will also be available as a retrofit solution.

Loading and unloading or picking up and putting down of loads are among the most critical situations involving forklift trucks and pedestrians.

The system is particularly effective in poorly lit areas of a warehouse or where visibility is otherwise restricted. The detection area can be adapted to operating and ambient conditions, which ensures a high degree of flexibility in averting critical situations and preventing unnecessary warnings.

T 0845 608 5000
www.linde-mh.co.uk

Thorworld installs largest single modular dock unit

Working with trusted sales agent, DARMAX, Thorworld has installed its largest single bespoke modular dock to date, to support the efficient, environmentally friendly and safe loading and unloading activities of a major supermarket chain.



As the success of a leading supermarket created further store openings, it required a sustainable solution to deal with packaging returns from stores. The customer's key aims were to minimise waste and lower carbon miles, so they looked for a solution within their existing warehouse site.

Having researched the market DARMAX UK Ltd, the dealer for Thorworld Industries, was identified as the chosen provider. The large, bespoke modular dock system was designed and manufactured by Thorworld and installed in Kent earlier this year.

Incorporating seven Loading Dock positions with barriers and seven collection points at the rear the platform which measured 31 metres wide by 13 metres deep from front to back, providing space for compactors and sorting of packaging. The modular dock systems comprised 44 modules and a deluxe, type 7-yard ramp with access steps. A safety barrier was also installed on every dock opening along the back edge, so a forklift truck could operate at ground level, allowing existing docks within the main warehouse to provide deliveries to new stores in the area.

For more information about Thorworld Industries loading and unloading solutions, including bespoke modular dock systems, visit: www.thorworld.co.uk/loading-platforms/modular-docks

A drone video of the installation is available at: www.youtube.com/embed/jfI_bVJQfu0



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UK's number one manufacturer of hinges

With an impressive, expansive history spanning over 200 years, Gold and Wassall Hinges was first established in 1790. From the company's manufacturing facilities based in Tamworth UK, Gold and Wassall Hinges provides a range of services for design, production and manufacture of hinges, all produced in house and distributed throughout the whole of the UK. An industry leader in its trade, Gold and Wassall Hinges has established itself as the UK's number one manufacturer of hinges.

"We pride ourselves on the quality of what we make. We manufacture all of our hinges right here in Tamworth, so we have complete control over the quality of our goods. Other hinge companies import from abroad, which means we might not always be the cheapest, but we are certainly the best in terms of quality," said Scott Bareham, Sales and Marketing Manager.

Gold and Wassall Hinges provides a full turnkey comprehensive design and manufacturing service, offering a wide range of hinges including: piano hinges, butt and backflap hinges, standard, heavy duty and



bespoke made to order hinges. With an extensive range of stock on offer, Gold and Wassall Hinges is equipped to meet any hinge requirements and all of its stock is available for immediate dispatch.

"All our hinges are UK made; we are the only hinge company in the UK which can offer this. We offer a bespoke design and manufacture service, which means we can create virtually any hinge from a simple idea," added Scott.

One of the main focuses of Gold and Wassall Hinges is to provide first class customer service. Ensuring that from initial inquiry to delivery and aftercare, Gold and Wassall Hinges' team engages on a personal basis with each customer to find out their specific requirements, measurements, application and style, to ensure they find the right door hinge for the individual's needs.

While providing an impressive range of off-the-shelf hinges, Gold and Wassall Hinges understands that for some projects, a custom built hinge is required. Whether it's a simple design alteration such as rounded corners or a more complex design with multiple bends, the team at Gold and Wassall Hinges is dedicated to providing the right hinge solution for you, providing a bespoke custom-made hinge solution.

"Our bespoke hinge service is ever growing in popularity and is possibly our biggest asset. We make all the hinges no one else can – we have an in house toolroom which helps us meet customer requirements which would usually be dismissed. We have made over 250,000 unique hinges now, and counting. It really gives the customer flexibility when designing a product," Scott noted.

Gold and Wassall Hinges has created over 250,000 unique hinges and continuously develops new patterns produced on a daily basis. The company is well equipped with the knowledge, skill and tools to create solutions for any application and has the ability to meet mostly any hinge size or shape requirements.

Another example of the company's customisation services, Gold and Wassall Hinges provides an abundance of finishing options for its customers. Able to customise colour, add branding and create a smooth premium finish. The company's array of finishing options is perfect for increasing protection, matching the application or to create that smooth premium finished look.



With a history spanning across centuries, Gold and Wassall Hinges has seen and experienced many tribulations for the world and its industry since its fruition and has been able to maintain its production and dominate its industry.

During the uncertainty for many industries during the on-going COVID-19 pandemic, many manufacturers saw a halt in production and in sales. Demonstrating its renowned manufacturing capabilities, Gold and Wassall Hinges maintained production and was approached for providing hinges for the Nightingale hospitals.

We spoke to Scott about how the COVID-19 pandemic has affected the company; he told us that, "We worked all the way through. We experienced some demand for hinges for the Nightingale hospitals, as well as a customer who is involved in the manufacture of food delivery vans. Although our sales obviously went down during the pandemic, we feel that we are making steady progress coming out the other side. We have managed to keep our workforce whole, with no redundancies."

Gold and Wassall Hinges plans to continue its dominating presence in the industry. Scott stated, "We plan to continue doing what we have been for so long – if it isn't broke, don't fix it!"

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New Lanemark process gas burner tech

The latest process gas burner technology from Lanemark Combustion Engineering Ltd is now helping one of the country's leading manufacturers of construction equipment to benefit from optimised energy usage and minimised emissions.

Warwickshire-based Thwaites Ltd, who provide a wide range of dumper truck designs particularly to the construction industry, have replaced two well-proven existing Lanemark FD5EP-3 burner installations with the company's latest forced-draught gas and air FD5GAP-3 models. The result is a combination of excellent heat control and an anticipated, significant saving in gas usage.

The replacement of the two existing Lanemark burners – both hi/lo units which have delivered reliable performance since 1998 – have allowed



Thwaites to gain from the latest designs and technology.

Lanemark's FDGA burners utilise the latest 'air pressure lead' mono-bloc gas valve technology which is central to ensuring safe and efficient gas/air ratios are always maintained even under variable plant operating conditions. These offer significant benefits compared with alternative fixed gas/air valve linkage control arrangements while the absence of mechanical linkages between the gas and combustion air control valve and dampers means the need for adjustment or the risk of sticking are avoided.

Contact: Jeff Foster
T 024 7635 2000
info@lanemark.com
www.lanemark.com

William Hughes is welded to success

William Hughes has become an authority in the supply of welded wire assemblies, primarily for the automotive industry. The company's expertise in MIG, MAG, TIG, spot/resistance and Butt welding processes has led to it establishing a total of 33 welding cells across its three factories in the UK, Poland and Bulgaria.

In the UK, William Hughes Ltd is the only supplier of large volume automotive welded assemblies, a skill it has spent the last twenty years perfecting, still trading.

William Hughes has always been a large volume producer of wires, springs and small welded assemblies for the automotive industry. Twenty years ago, welding was carried out manually or by simple semi-automated machines but Engineering Director, Emma Burgon, had the



foresight to focus on acquiring a contract for 100% rear seat welded assemblies, having correctly recognised a potential gap in the market at the company's low cost facility in Bulgaria. The William Hughes engineering

department was tasked with understanding the specific tooling required to manufacture this type of product and the investment necessary to bring such tooling manufacture in-house.

After 2 years of manufacture in Bulgaria, word of the company's capability reached the customer base in the UK and they secured their first welded assembly for the home market. By this time, some serious investment in machinery and personnel had led to William Hughes producing its own tooling, allowing more control over design philosophy and greater cost-effectiveness.

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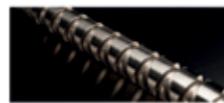
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Design engineering innovation driven by expertise

In this issue of Industrial Process News, we are pleased to announce MAATS Tech as our Offshore Energy Company of the Month.

Established in 1989 by John Holt as Maritime Audit and Technical Services, the company became MAATS Tech Ltd in 2010 and is now located at its head office in Gloucester with a service and test facility based in Durham.



As specialists in offshore energy and a proven track record spanning 30 years, MAATS Tech have become a trusted and key supplier to international markets and offshore engineering industries

operating in both the Energy, and Oil & Gas markets. "We primarily provide design and mechanical engineering to the offshore engineering industry delivering services from design through to build, installation and commissioning of equipment, naval architecture, finite element analysis, project management and superintendency, services and support," stated Lisa Edwards, Managing Director.

Priding itself on the quality and integrity of not only the design engineering of its systems and equipment but the physical reliability, MAATS can create turnkey solutions equipped to respond to the most complex of requirements. As the supplier of choice for many world-renowned clients, some of which include Subsea 7, TechnipFMC, NKT, Nexans, Aker Solutions, McDermott and SBM, MAATS has also developed close relationships with a number of well-respected shipyards such as Vard, DSME, Royal IHC, Ulstein and



CDPLC and design houses including SaltShip and Skipsteknisk.

"The benefits of our service are that we offer design bespoke equipment for the operators needs and have many years of experience to understand clients' operations and requirements. Our products are high-quality, reliable, and driven by innovation and expertise," said Lisa.

When working with MAATS, its services go far beyond project delivery. MAATS offer a continued high-quality assistance to all clients through Service Frame Agreements (SFA) supported by its Aftersales team. Using their own initiative, expertise and experience of the equipment to provide technical information, recommendations, site visits, and spares supply, each Framework Agreement can be tailored and specific

to customer requirements and created in collaboration with the company's experienced technical leads.

The Service Framework Agreements offered by MAATS are scaled to allow the client flexibility in the level of support they require and for how long. Useful for assisting in limiting the potential maintenance downtime of a vessel, other areas covered by the Service Framework Agreements include support from MAATS global help desk, MAATS engineering days, data capture, spares discount, annual update of OMM pack, annual inspection and report, and training of users with MAATS equipment. "It's great to see the Service and Support side of the business growing nicely with some Service Framework Agreements being signed with clients to continue close relationships with the vessels and their operations," added Lisa.

Emerging from an incredibly challenging time,



COVID-19 had a major impact on many businesses and industries around the world. Despite the struggles of moving teams to project sites, supply chain issues, contracts being delayed, and the obvious increase in prices, MAATS has managed to navigate a clear path toward future growth as it moves into a new phase of equipment development and establishing current and new client relationships.

"There are some very exciting and challenging times ahead for those involved in the offshore energy market with many field developments being given the go ahead. Expect more vessels to be constructed or converted to be able to deliver these projects with the continuing push to design equipment to be bigger, more efficient and innovative," stated Lisa.

For more information, see below.

T 01452 546570
enquiries@maats.co.uk
www.maats.co.uk

Industrial Process Technologies

Do we have to put up with vibration from plant equipment?

Whether we're in a residential or an industrial setting, we've all encountered situations where we're forced to put up with noise disturbance from a pump, pipe or fan, but should we have to? Here, Adam Fox, director at vibration control specialist Mason UK, explains why simply following the available guidance should eliminate this all-too-common problem.

Ideally, building acoustics should be considered at the design stage. It is often much simpler and more cost effective to address issues at this stage, as opposed to costlier retrofits further along in the life of the building, after complaints start to occur. Unfortunately, acoustics is sometimes considered something



of a dark art and vibration control is even more of an esoteric area, so where do you start?

The Chartered Institute of Building Services (CIBSE) provides clear guidance on this. Originally developed by specialists in the 1960s and most recently updated in 2016, the CIBSE B4 guidance document offers advice on the generation,

prediction, assessment and control of noise and vibration from building services.

Unfortunately, the existence of these guidelines and their potential value is relatively unknown. The document summarises some of the main problems that arise from things like HVAC systems and has a special section dedicated to plant rooms.

Enforcing these guidelines from the outset would quickly eliminate most of the common problems in new buildings.

Contact: Adam Fox
T +44 (0)1252 716610
info@masonuk.co.uk
www.mason-uk.co.uk

Bühler adds Volvo Cars to its megacasting customers

The Swedish premium car brand Volvo Cars has purchased two Carat 840 die-casting cells for its factory in Torslanda, Sweden. The Carat 840, along with Carat 920, Bühler's largest die-casting solutions, were launched in 2021. These solutions have become very attractive for customers in the automotive industry.

In October 2021, Bühler launched the Carat 840 and the Carat 920 with locking forces of up to 92,000 kilonewtons (kN). With these solutions, Bühler's customers can produce structural castings for automotive body in white assemblies, known as megacastings. This expansion builds on the success of the Carat 560 and 610, which have up to 6,000 tons locking force and have been on the market since 2020.

Bühler has been active in die casting for over 90 years and supported customers with thousands of applications. Megacasting is a further development of the structural process (complex, thin-walled parts produced using die casting) which Bühler has driven since the early 2000s. Bühler's Carat series is the most successful solution on the market and brings megacasting production to the next level.

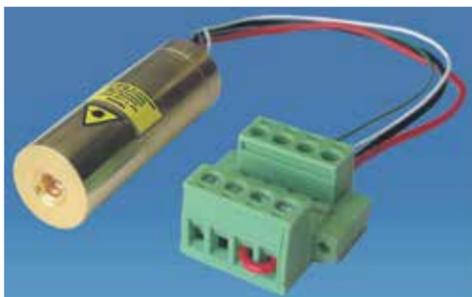


says, "Megacasting is of utmost importance for the entire die-casting industry. Megacasting gives the trend towards structural casting another push by extending the range of applications to complete body sections with the use of the new large Carat solutions with up to 92,000kN locking force."

Contact
www.buhlergroup.com/diecasting

Cornel Mandler, Managing Director of Bühler Die Casting,

Green & yellow laser modules with new wavelengths



Besides the already well-known green laser modules from Lasence with the wavelengths 532nm & 545nm, new laser modules are now available with wavelengths 520nm, 555nm and 577nm. These laser modules from the GLM series

are offered with output powers up to 1W, have a fast rise time and are very reliable.

The typical output beam has a diameter of 0.5mm with divergence ≤ 40 mrad. With dimensions of just 18mm x 55mm (Diameter x Length) they are very compact for this high output power. There are plenty of applications in which these laser modules can be used:

- **Biomedical Applications** – Cytogenetics, Optogenetics and Intravital Imaging
- **Clinical Applications** – Photoluminescence Microscopy, Robotic Surgery and Endoscopy
- **Industrial Applications** – Agriculture, Food and Semiconductor Inspection.

Contact
sales@frlaserco.com
www.frlaserco.com

Durable pressure reducing valve

A pressure reducing valve from steam specialist TLV Euro Engineering has been installed at King's College Hospital in London and operating on a daily basis for nearly 14 years without an overhaul or spares fitted.

The COSPECT pressure reducing valve was originally specified by TLV Euro Engineering and installed by a contractor in 2008 for the King's College Hospital NHS Foundation Trust's Ruskin Wing, the tallest building in the Denmark Hill campus and one housing many of the hospital's neurological departments.

Originally installed outside between



two buildings at the site, the COSPECT valve has since been enclosed by further building works at the hospital campus.

Installed to reduce pressure in the main steam line from 8 bar to 2 bar, indirect steam is used for the hospital's

heating batteries and domestic hot water purposes, so the COSPECT valve is operating 24 hours a day, 365 days a year.

It is estimated that the valve has achieved an average throughput of 950kg/h over its 14 year life, equivalent to 117,000 tonnes of steam. And in that time, the pressure reducing valve has never had any spares fitted, never been overhauled and has only occasionally had the operating pressures adjusted by the end user.

For further information, call TLV Euro Engineering on +44 (0)1242 227223, email: sales@tlv.co.uk or visit: www.tlv.co.uk

Mitigating arc flash events in process heating applications

An arc flash is an electrical explosion that occurs when there is a short circuit in a system, which can be caused by a build-up of corrosion or conductive dust. If the voltage is high enough, and if there is a path to ground or a lower voltage, the resistance of the air is overcome and results in an arc.

There are three main strategies for minimising the effects of arc flashes, including increasing the distance from the potential source of an event, reducing the available fault current and decreasing the duration of the event. All strategies can be combined to ensure maximum safety, but this is not practical when considering overall project cost. That said, the duration of the event is the most viable



influencer to reduce damage and has the largest impact on the total amount of energy released.

There are two key approaches to compare: arc-resistant cabinets and arc mitigation technologies. Arc-resistant cabinets aim to reduce exposure to arc events by encasing the system in a metal-clad cabinet with a venting system. The heated gas and pressure is redirected through a duct, reducing the energy that could potentially explode. However, a drawback lies in the fact that the cabinet must be closed for the arc-resistant cabinet to work, as many arc events occur during maintenance, when the doors are open.

Arc mitigation technologies also reduce damage to equipment, as it can function even when the doors are open and maintenance is being performed.

For example, in the Watlow POWERSAFE™ thermal system, sensors can be placed within the thermal controller, SCR node single contact or node, which are protected by a feeder. When the sensor senses an arc flash event in any compartment, the feeder shuts down the lineup to limit damage caused by the arc.

As medium voltage process heaters become more popular, they must be designed with safety in mind. Arc flash mitigation technologies represent the best approach here, as they decrease the duration of arc flash events and hence the energy released, helping to minimise the risk and damage involved.

www.watlow.com

Hospital air disinfection system uses Lascar's PanelPilotACE display

Compromised air quality in hospitals can increase the severity of infections in patients and negatively impact staff. According to significant research articles, over 35% of infections can be transmitted through the air. These types of infections can leave particles suspended in the air for extended periods of time.



Scientific Air Management created the S400 to reduce these transmissions in critical areas. The S400 is a mobile air disinfection unit designed to remove airborne contaminants, pathogens, and odours of all types. The device utilises Lascar Electronics' SGD 43-A programmable TFT panel meter, chosen primarily for its programmable interface and ease of use. The free configuration software supplied with the panel meter enabled Scientific Air Management to design and create a multi-page user interface. The design utilised two PWM outputs to control fan speed and illumination of the UV bulbs. The SGD 43-A also displays the HEPA filter runtime to ease maintenance and ensure efficient operation.

Lascar recently designed and manufactured a PCB that eases the assembly process and greatly speeds up the production time of the completed assembly. Lascar proudly helped Scientific Air Management meet the high demand for S400 devices, supplying them to hospitals during the COVID-19 crisis.

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UL 62368-1 CB Scheme IEC 62368-1

allows for an extended operating temperature range of -40° to +65°C without derating under natural convection conditions (see recommended PCB layout). Further features include remote On/Off control, continuous short circuit protection and an I/O isolation voltage of 1,600 VDC.

The very compact dimensions of these converters make them an ideal solution for many space critical applications in communication equipment, instrumentation and industrial electronics.

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DD-Scientific Lead Free Oxygen sensors move market forward

While oxygen sensors with metal lead inside currently enjoy an exemption from Restriction of Hazardous Substances (RoHS) legislation, this is due to be lifted in 2024 and from that point equipment manufacturers may no longer be able to sell new instruments using lead based technology.

Fortunately, DD-Scientific has spent considerable time and effort in developing a lead-free alternative solution delivering compliance with legislation as well as significantly enhanced performance and sensor working lifetimes. The lead-free technology from DD-Scientific works in a similar way to traditional toxic electrochemical

sensors which means that OEMs do not need to develop additional complex drive circuitry.

Their design makes them inherently stable over a long period of time, potentially more than 8 years & unlike lead based sensors are unaffected by use in acid gas streams.

They are available in our standard 4 Series general purpose industrial package and more recently in a miniature DceL package to enhance the portability of personal gas monitors. They are also available in the DD-Scientific 5 Series package for use in emissions monitoring and combustion gas analysis.



To learn more about our exciting new range of long life sensors, contact: sales@ddsscientific.com

Protection against Hydrogen Sulphide exposure: Single gas detection monitoring and ARA Dock4



Despite advances in health and safety strategies and personal protective equipment (PPE), hydrogen sulphide was still responsible for 46 worker deaths between 2011 and 2017, according to the USA Bureau of Labour Statistics. Mitigating the risk of hydrogen sulphide exposure is something ION Science is keen to emphasise. The ARA H₂S Single Gas Detector is an essential piece of PPE from ION Science that can make a huge difference in protecting workers against hydrogen sulphide exposure.

At both low and high concentrations, hydrogen sulphide poses serious risks for health. High concentrations can cause 'knockdown', where workers are overcome and collapse due to exposure – this can lead to death in some cases. Low concentrations cause respiratory issues, eye irritation, and headaches. The impact of hydrogen sulphide is increased when areas are confined (such as wells, pits, pipes, tankers, tunnels, and service hatches). As a gas commonly present in industries such as oil and gas refining, mining, pulp and paper processing, and sewage and wastewater management, ensuring there is appropriate protection for workers from hydrogen sulphide should form part of a wider occupational safety approach that reduces exposure, risk, and injury.

The ARA H₂S Single Gas Detector is a continuous monitoring device that operates for 24 or 36 months from activation (dependent on version). It is maintenance free, intrinsically safe, and offers three alarm notification in the event of H₂S exposure exceeding limits: a flashing light, audible alarm, and vibration. These alarms are adjustable to high and low settings for user preferences. Calibration and bump test reminders also ensure that the user's device is up to date and operating at appropriate levels of safety. Lightweight with a sturdy attachment for wearing within the breathing zone, the ARA H₂S Single Gas Detector is designed for workers' convenience and protection against the risks of hydrogen sulphide exposure.

To accompany the ARA gas detector range, ION Science offers the ARA Dock4 bump test and calibration station. This can simultaneously test up to four ARA gas detectors at once, saving on testing time and gas usage. The ARA Dock4 is ideal for larger plants and operations and the need to keep devices up to date with calibration and testing. It has a rechargeable internal battery that offers up to five hours of operation when fully charged. The ARA Dock4 is certified electrically safe to UL 61010-1.

With greater monitoring and protection against hydrogen sulphide exposure risks, it is possible to reduce the number of work-related incidents and improve overall worker safety. Using cost effective and worker-specific devices like the ARA H₂S Single Gas Detector is an easy way for businesses to add another layer to the occupational health and safety strategy. Combining this with the ARA Dock4 means all devices can be always kept in peak condition for testing and monitoring.

ION Science continues to support the improvement of worker health and safety through monitoring devices, testing stations, PPE and expert insight for gas detection and instruments.

To find out more about the full range of ARA Single Gas Detectors available from ION Science, including the H₂S version, please visit: <https://ionscience.com/en/>

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KRÜSS presents new tensiometer & QC solution for wettability testing

Under the heading Generation ii, KRÜSS was present with two new measuring instruments at analytica 2022 in Munich, Germany. The Tensiometer Tensio from the Hamburg-based solution provider for interfacial analysis combines technical innovations with great flexibility in individual equipment. Ayrriis is the world's first instrument for measuring 3D Contact Angle and, as a mobile stand-alone solution, performs reliable, unambiguous testing for quality control (QC) and is free of user intervention or result interpretation.

Tensio – modular universal tensiometer for liquid and solid surfaces
In addition to many technical innovations and intuitive operation with an integrated touch display, KRÜSS places particular emphasis with Tensio on individualised equipment options for the respective needs of the user. For example, a force sensor with very high resolution is available, which is suitable for tasks such as measuring low interfacial



Tensio

tensions or the wetting of single fibres.

Ayrriis – novel contact angle technology for user-independent wetting measurements in quality control

Contact angles reflect the wettability of a material and are often used for testing surfaces that have been pretreated or cleaned before coating, printing, or bonding. For industrial quality checks of large sample quantities, the method was previously only of limited use because it could not always be applied automatically, and the results often still had to be reviewed.



Ayrriis

Those interested in the Tensio and Ayrriis measuring instruments can also find out more on the company's website at: www.kruss-scientific.com/tensio and www.kruss-scientific.com/ayriis

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Drives & Controls

The elimination of overspray: Deposition with inkjet

Cyan Tec Systems is pioneering the use of inkjet print technology to replace spray systems in a wide variety of industrial sectors. The use of inkjet can eliminate masking, reduce fluid waste by up to 80% and offer the ability to create individualised patterns and images. Cyan Tec continues to sell spray systems where the application requires it, however customers are increasingly attracted by the advantages of inkjet over spray.



Inkjet technology was pioneered in the UK and offers the advantages of direct to product deposition, print flexibility, minimised waste and production efficiency. Cyan Tec applies its knowledge of inkjet born in the graphics and promo markets to also deploy the technology for industrial coatings. By marrying its inkjet print knowledge and vast experience of robotics and motion systems, the company offers systems that deposit decorative and functional fluids directly onto 3D objects eliminating wasteful overspray and costly masking processes. Cyan Tec claims its inkjet systems utilised, for example, to coat automotive dashboards with piano black anti-scratch finishes, use up to 70% less fluid than a spray process. Where the fluid deposited is solvent-based, harmful VOC emissions can also be reduced by up to 70%.

If you think your coating or decorating process could benefit from the direct, selective, addressable deposition that inkjet technology offers, Cyan Tec is there to guide you through the possibilities. Contact today to discuss your application at: sales@cyan-tec.com or telephone +44 (0)1509 815186.

Optimas solutions driving EV performance



No longer are electrification and sustainability industry buzzwords, but rapidly growing industry objectives. The future of automotive will be driven by advances in cleaner technologies – electric and hydrogen powered vehicles and a concerted effort is required by the whole of industry to work together to nurture innovation and safeguard the environment.

Recent times have seen a substantial uptick in EV sales, however one of the main issues facing manufacturers to increase consumer adoption is addressing range anxiety. Performance is key – even down to the nuts and bolts that fasten the vehicles together. Light weighting, insulation and material choice are considerations that carry increased importance, directly effecting vehicle performance, range, and overall cost.

To global fastener and component distribution and manufacturing experts, Optimas Solutions, this subject is right in the company's wheelhouse. Vast automotive expertise paired with sustainable manufacturing methods and advanced VMI systems are helping both established auto brands and start-ups find the right solutions to increase efficiency, performance, and save costs.

EV production, whether the vehicles themselves or associated infrastructure, is a minefield of technical performance challenges, down to the very smallest of parts, but it is a challenge in which Optimas are leading the charge.

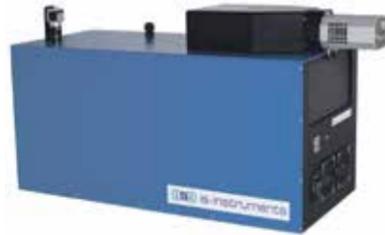
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ODIN is a new, compact, and reliable deep UV resonant Raman instrument developed by IS-Instruments (ISI) and TOPTICA for measurement of biopharma products. TOPTICA's Industrial CW Laser TopWave 229 enables new Deep UV Raman Spectrometer ODIN.

The system combines the newly developed solid state diode laser TopWave 229 and a spatial heterodyne spectrometer integrated into a single instrument with a unique all-reflective backscatter Raman collection probe. Sample damage caused by extended laser exposure has been mitigated via the introduction of a dynamic sample



positioning stage.

The TopWave 229 is an exciting new choice for deep UV spectroscopists looking for a reliable laser that enables the user to focus on their application rather than worrying about the light source. With its short wavelength and an ultra-narrow laser linewidth ($< 1 \text{ MHz} \approx 4 \times 10^{-5} \text{ cm}^{-1}$), the

TopWave 229 offers the critical features to meet a challenge such as excitation source in the field of deep UV Raman and deep UV fluorescence spectroscopy.

The TopWave 229 was designed for a compact footprint

and easy integration. Comfortable, hands-off operation is ensured by fully automated optimisation routines for the internal opto-mechanics. In order to provide best reliability and consistent, diffraction limited beam quality ($M^2 \leq 1.3$) the complete UV beam path is enclosed in a specially sealed compartment.

With its state-of-the-art laser controller, the TopWave 229 offers a wide range of operating options and systems integrators will appreciate the comprehensive command language that enables smooth integration with central control software.

Go to: www.toptica.com for the Laser source TopWave 229. Go to: www.is-instruments.com for the UV Raman Spectrometer ODIN.

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Suurmond UK Limited recently attended the ChemUK event at the NEC in Birmingham. A main feature of our booth was our NEW suurGLASS unit. suurGLASS is a standardised, universal reactor system for process development, chemical synthesis, stirring, dissolving, mixing and extraction. The custom design of the support frame means that the vessel can be changed easily while the top cover remains secure mounted to the support. The quick action clamp can be operated with one hand allowing the user to support the vessel for easy and safe vessel changes. With our system the top cover and all the accessories connected to it can remain in place. Because our system is designed specifically for basic chemistry, we are able to offer a highly engineered solution at a lower price point than might be expected.

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New E-commerce site from Interface Force Measurements

Interface Force Measurements, suppliers of the popular and whisper-quiet 1,200 precision series load cells are pleased to announce the launch of a brand new E-commerce website where you'll be able to order your load buttons, in-line load cells and mini s-beam load cells.

Going live on the 1st of April, <https://store.interfaceforce.co.uk> will feature the Interface G-Series of load buttons, in-line load cells and mini S-beam load cells. The Interface G-Series has all the quality, reliability and performance you'd expect from a force transducer bearing the Interface name, but at very competitive prices. <https://store.interfaceforce.co.uk> will offer our G-Series load cells on short lead times with

next business day delivery for small quantities being the aim. Interface load cells at competitive prices with all the convenience purchasing online offers, what's not to like?

The Interface G-Series was launched around one year ago, becoming a popular product range with students, industrial engineers, OEMs and anyone requiring a small form force sensor offering accuracy, repeatability and Interface quality. All G-Series load buttons and load cells feature:

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■ Capacities from 4.5newtons to 50kN. If you are interested in placing volume orders or have an OEM application that G-Series products might be suitable for, please contact us directly.

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Vacuum Transducer for rough environments

Thyracont Vacuum Instruments expands its range of USB transducers with model VSC43USB. This compact transducer with a chemical resistant ceramic sensor and FKM sealing is resistant to dirt and therefore ideally suited for rough industrial environments.

The VSC43USB measures independent of gas type and offers an extended measuring range from 2,000 down to 1mbar (absolute pressure) as well as from -1,060 to +1,200mbar (relative pressure), qualifying for a broad field of applications. Displaying precise results right away and without any warm-up period along with having a short response time of maximum 20ms, the robust ceramic sensor contributes to efficient production processes.

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quick and easy interconnection to other portable devices. This allows a plug & play connection to all common computers or Android smartphones to display the measured vacuum precisely and quickly during process monitoring. The reduced

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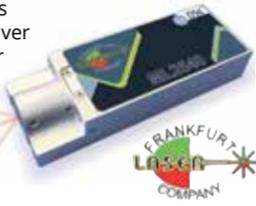


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Flow meter and level sensor specialists



In this issue of Industrial Process News, we are delighted to announce that iCenta Controls Ltd are our Precision Engineering Company of the Year.

iCenta Controls is a Wiltshire based distributor and manufacturer of flow meters, sensors, and associated electronics. Founded by Managing Director, Paul Gentle, and now in its 20th year, iCenta Controls' customer base ranges from SME to global Process, Energy, Scientific, Medical organisations and Research Facilities and institutes.

iCenta Controls supply high-quality precision engineered flow meters including system, and instrumentation, backed up by an experienced and knowledgeable team. The company supplies a large range of 'off-the-shelf' products and works closely with each customer to supply or design a best fit, for their specific application.

"There are numerous flow meter suppliers in the UK and a few good independents in the market, but I genuinely feel that we are a very high-quality provider when combining our experience and product offering and after sales support. As an example one of our key partners offer a three year warranty and I think that speaks volumes about the quality and belief of their products. We also put a strong emphasis on customer service and support through the life cycle of our equipment, from initial specification, and supply and where applicable leading to commissioning and annual calibration services using our in-house calibration facility or partners facilities.

"This, combined with our decades of knowledge and experience with instrumentation, often enables us to supply system packages, so I guess you could say we offer a holistic approach to flow instrumentation," stated Paul Gentle, Managing Director.

iCenta Controls has some of the industry's finest manufacturers on flow measurement as partners,



these include: Vögtlin Instruments GmbH, Oval Corporation of Japan, Siemens Process Instruments, Fluidwell BV and +GF+ Signet. This offering allows us to provide a solution tailored to the requirements of each customer. iCenta Controls also has its own in-house manufactured products under its Metri Measurements brand. British manufactured, precision engineered and highly accurate, the Metri Measurements range consists of robust and highly durable Paddlewheel and axial Turbine Flow Meters with multiple product options for complete versatility. These are often combined with partner products such as the Fluidwell F-Series Display/Totalisers, providing cost-effective, reliable solutions for Atex IECEx hazardous area applications.

Instruments are suitable for use with a wide range of fluids including water, fuels, hydrocarbons, and other



liquids as well as across a variety of gases, such as Air, Oxygen, Helium, Hydrogen, Argon, Methane.

iCenta Controls engineers ensure they understand the unique requirements of each specific application and offer services to suit. As an ISO9001:2015 accredited company, iCenta Controls' customer support team is confident in providing the most efficient and accurate service; so much so, that if a selected product has been chosen for you by a member of the support team, iCenta Controls will guarantee the performance of this in your application, making your decision as risk free as possible.

Considering recent events, the last 18 months have created some challenges for the company, resulting in a mixed 12 months. Overall, the business has demonstrated resilience in regard to the challenges during the COVID-19 pandemic, and the company has grown both in business growth and interest in its products, over the last year. This has translated in to 25% increase in sales, in the first six months of the year, resulting in a positive upturn for iCenta Controls.

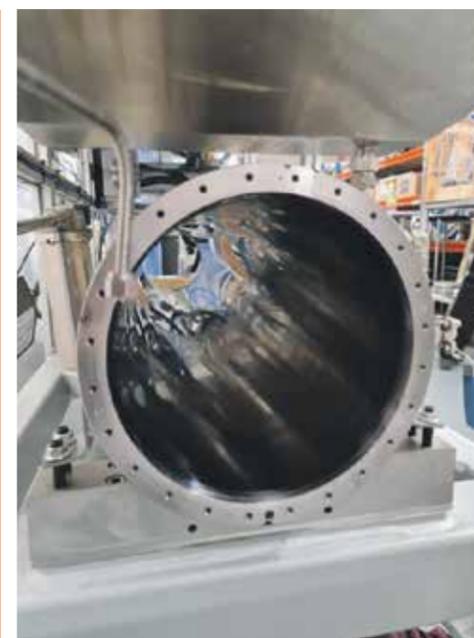
Paul stated, "It's been a challenging time, but we have adapted and grown after an initial downturn, and 2022 looks to be another step in the right direction."

One of its most notable developments has been its the Red-Y Smart product range; one of the company's best-selling products. Paul expanded, "The addition of the delta flux meter/controller from Vögtlin this year, has proven to be a welcome addition to the range, with some interesting new customer applications. New products are always welcome but some of our well-established products still form the biggest part of our sales. Products such Coriolis Mass Meters, Thermal Mass Vortex, turbines, not to mention our flow calibration service."

In other recent updates, iCenta Controls has made some significant internal changes in terms of its back office/sales support and is actively recruiting for new marketing and technical staff to join its close-knit team.

"We're a small company and need to be adaptable and responsive, I believe in giving staff responsibility and control in their given areas whilst supporting them to achieve as much as possible, actually I see them all as leaders," added Paul.

As the company looks toward its future, iCenta Controls maintains many plans to continue its positive trajectory. Some of these plans include investing in R&D to expand its future Metri Measurements offerings, and the introduction of some exciting new products being released later this year. These products will enhance the company's Metri Measurements Products range



and are designed to enable easier integration and configuration for customers. The new products will also include added features, which will open the company to new markets.

2022 is proving to be a year of growth and expansion for iCenta Controls, and with many plans to continue developing and furthering its offering, the company plans to maintain and build upon its industry leading presence.

Overall, iCenta Controls is pleased with its developments over the last six months and believes its new-found growth is a testament to the ongoing hard work of its team. Paul stated, "This award is great news for the team and their hard work over the last few years through some very challenging times and is very welcome. Very pleased to be selected for this reward, it would not have been possible without my superb team and of course our customers."

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