

INDUSTRIAL PROCESS NEWS

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IPN

New Additel 673 Advanced Digital Pressure Calibrators

Chamois Metrology Introduce the New Additel 673 Advanced Digital Pressure Calibrators to Provide a Smartphone Like Experience coupled With the Ability to Simultaneously Measure Pressure and a Transmitter or Switch for Pressures up to 60,000 psi (4,200 bar)



Chamois Metrology introduce the new ADT673 Advanced Digital Pressure Calibrators which include a smartphone like touchscreen and graphical interface for a completely new way of interfacing the calibrator. The ADT673 Advanced Digital Pressure calibrators come with a built-in barometer and are available in pressure ranges from ± 2.5 mbar to 4,200 bar and come standard with Wi-Fi and Bluetooth wireless communications, as well as a type-C USB port and cable (RS-232 and 4-20mA output communications are optional).

Additel 673 calibrators provide an accurate pressure calibration solution for gauges, transmitters, and switches. Each calibrator contains a built-in barometer sensor which allows for the pressure reading to display in gauge pressure or absolute pressure with a

simple menu selection. The ADT673 series contains HART communication capabilities and can measure in mA, or V, and supply 24V loop power. It has a dual readout display showing the pressure on one display and mA, V or a pressure switch on the other display. Each calibrator comes with an ISO-17025 accredited certificate of calibration. It is compatible with Additel's Link mobile app and 9502 Additel/Log II software, which enables the ability to monitor and display the real-time pressure measurements in a table or graphically.

The Additel 673 Advanced Digital Pressure Calibrators are available now. For more information, visit: www.chamois.net or contact us for a virtual or in-person demo on 01926 812066 or email: info@chamois.net

Advantech enhances market-leading industrial edge computer line-up

Leading industrial computing platform provider Advantech has further enhanced its IPC-200 series – the world's most compact high-performance fan-based industrial edge computers, which are suitable for a broad spectrum of applications.



The enhanced IPC-220/240 V2 and IPC-242 line-up combines a small footprint, and easy-maintenance design with powerful computing capacity in the form of 10th generation Intel® Core™ processor.

The IPC-200 series employs fans as a thermal solution, meaning they work reliably even in an environment with no air flow. The smart fan's speed adjusts automatically depending on the temperature to minimise noise, while the front-facing I/Os including hot-swappable HDD/SSD trays to facilitate cable routing and maintenance when the IPC is installed in a machine or control cabinet.

The range boasts a self-diagnostics function which monitors temperature, fan speed, watchdog timer status, with front LEDs which notify the user of required maintenance before a system defect can occur, minimising the risk of production loss due to machine controller failure.

Each IPC-200 product also comes with

additional power outputs – 5V DC/ 2A and 12V DC/ 2A – for external devices to save the space and cost of regulators. The range is readily expandable to support machine vision and motion control, making it particularly well-suited to industrial automation and equipment manufacturing applications requiring an ultra-compact, best cost-performance ratio controller.

Meanwhile, when paired with Advantech's responsive local configuration services, the range can minimise time-to-market for machine builders while accelerating Industry 4.0 adoption.

The current IPC 200 portfolio is being employed in diverse applications worldwide. These range from automated optical inspection to test and measurement, and robot guidance & control.

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Editor Recommends

New suurGLASS unit



Suurmond UK Limited recently attended CHEMUK 2021 at Birmingham's NEC. 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 & 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.

Basic specification:

- Volume reactor vessel: 1-5 litres, using the same cover plate
- Vessel materials: Type I, Class A borosilicate glass
- Drip tray material: Standard in 316L
- Stirrers: Anchor, propeller, impeller, turbine
- Temperature: Up to 200°C
- Pressure: -1 to +1 bar
- Options: A wide range of glass accessories like burette, cooler, dropping funnel, various sensors

Contact us at 01386 423756 or at: www.suurmond.com/products/suurglass

Vivid Laminating Technologies Ltd

Multiple award-winning creative print agency, Eazyprint have invested in new digital die-cutting equipment and have decided to team up with Vivid Laminating Technologies Ltd by opting for a VeloBlade Volta 69+.

Brothers and founding Directors, Sacha and Daniel Pretot, are both incredibly excited by the new acquisition, stating, "We had been

working closely with Vivid for a few years and loved that they wanted to work closely with us, sharing information and requesting honest feedback, which in turn helps them offer better products and service. That was partly why we purchased our Matrix Duplex laminator a couple of years ago, which came with a special modification built just for us.

"And as a result of that positive

experience, we were confident about investing in their technology again with the VeloBlade Volta. And that confidence has been rewarded, because our new VeloBlade Volta has enabled us to take adding value to an all-new level in terms of creative finishing."

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Cutting & Welding News

WeldCloud boosts productivity

ESAB's WeldCloud suite of online software applications remedies the key issues affecting the welding industry through digitisation: productivity bottlenecks; high costs of poor quality; high costs of compliance and documentation; equipment failures and downtime; difficulty in finding skilled welders; and challenges associated with managing large fleets of welding equipment. WeldCloud apps run on any web-enabled device and operate intuitively.



WeldCloud Productivity tracks arc-on time, net deposition rate and travel speeds on each weld strike and session for each machine in a fleet and generate reports and analytic functionality. It can improve arc-on time factor by 10-50% during the first year.

WeldCloud Fleet sends immediate notifications from each individual machine to the user, alerting them instantly of issues and service needed. This application also provides a complete machine event log and service log, import and export of welding jobs, and location tracking of each connected machine.

WeldCloud Notes saves time and reduces errors related to document management. It enables users to maintain quality and compliance while managing PQR and WPS documents in one place and generate a PQR or WPQ with all essential variables in minutes.

To learn more, visit: www.esab.com/digital

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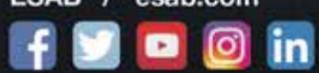
POWER SOURCE WITH ROBUST FEED U6



Aristo 500ix is a portable heavy industrial pulse power source with a rugged and reliable mechanical design. Together with Robust Feed Pulse, this is the ultimate portable and durable combination for advanced heavy-duty pulsed welding applications.



ESAB / esab.com







GLOBALLY CERTIFIED MANAGEMENT SYSTEMS

New cost effective toggle clamp range

WDS Components Ltd has released a new range of durable and economical toggle clamps, expanding clamping flexibility at a lower price-point. Available in three formats, the designs provide flexible clamping options including use in space-constrained areas. The launch enables customers to achieve durable and secure clamping previously achievable only with premium clamps. The new clamp range offers a high holding force up to 227kg, making them suitable for a range of heavy duty uses, as well as compact clamps for more intricate applications.



compact 78mm-long lever that can clamp up to 27kg. As per all the new toggle clamps, they feature an adjustable spindle for flexibility and precision in clamping.

The new toggle clamps are a fast and secure way of holding workpieces for applications such as wood and metal work. Clamping via a pivot and lever mechanism, the devices work on an over-centre action, providing either a locked/closed or open position.

Toggle clamps with a vertical clamping action are available in two main styles. The standard version has a total height of 157mm and also provides the high holding force of 227kg. Meanwhile, a T handle grip version has a compact height of 64.5mm and provides 50kg of clamping force.

Six new toggle clamps with more economical price points join WDS' existing range. Horizontal action toggle clamps provide a maximum holding force of 227kg with an overall lever length of 228mm, down to a

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Schloetter Surface Technology

At Schloetter we are very excited to have again recently supported the Advanced Engineering Show. Events such as this are where ideas are created, and valuable connections can be made. The show was a great opportunity to discuss inter-industry applications, products, technologies, and issues.

Our expertise is Surface Finishing, and our products and applications are wide ranging:

- Metal Finishing and Electroplating processes, including:
 - Decorative, Engineering, Connectors, Anti-Corrosion
- Specialist Paints, for applications such as:
 - Glass, Plastics, and Metals, all for a wide range of industries
- Printed Circuits and Electronics

- Specialist plating processes for both modern and future technologies, such as 5G and environmental applications

The future of manufacturing and technology in the UK is ours to make, and for the sake of that future, we have to get it right.

For that reason, we at Schloetter are committed to supporting innovation and we are always open to new ideas and applications. Building on our heritage and traditional values, investment in development is seen as critical to our future.

We work closely with our customers. We develop answers to questions and solutions to problems.

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European Springs and Pressings Ltd

European Springs and Pressings Ltd offer a full design and manufacturing service for bespoke and standard metal Pressings, Wireforms, Coil and Gas Springs with Prototyping and full Tool Room support. With two UK manufacturing sites, a standard product range of 12,000+ items and a dynamic balance of cutting-edge facilities, experienced engineers and thoughtful customer service, it is with good reason that we are numbered among Europe's leading spring and metal component suppliers.

Our clients work across the Aerospace, Automotive, Defence, Domestic Appliance, Electronics, Hydraulics, Lighting, Medical, Nuclear, Pharmaceutical, Scientific and Telecommunication industries, so we're used to delivering a wide array of bespoke products that meet complex client-specific requirements.

A bespoke manufacturing process and in-house design service – complete with CAD/CAM software and systems – means we can help you realise a range of prototype ideas which can be individually cut using precision lasers for R&D testing or put into full production. Our fully equipped tool room is available to design and build any production tooling needed, assuring you of competitive pricing and consistent quality supply.

Whether you need a conventional compression, tension, die, disc or torsion spring, or want the most obscure spring clip or wire form imaginable, we are able to produce exactly what you're looking for.

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Water, Energy & Environment News

Higher climate benefits thanks to the European waste management sector

A new European study shows that increased recycling and energy recovery, in line with EU and UK policies for CO₂ emissions, significantly reduces CO₂ emissions for the entire EU economy. The waste streams covered in the study were: Paper, Glass, Plastics, Ferrous metals, Aluminium, Wood, Textiles, Waste tyres, Biowaste + Residual waste/Waste derived Fuels.

In scenario 1, the study shows that achieving the current EU municipal recycling target of 65% and landfill cap of 10%, there is a potential for an annual reduction of ~150 million tonnes CO₂-eq in 2035, compared to net emissions of 13 million tonnes CO₂-eq in 2018. This scenario takes into account the avoided emissions from the energy and manufacturing sectors not using fossil fuels and virgin materials.

In scenario 2, the study expands to higher recycling targets that could potentially almost double from the current 2035 trajectory, reaching ~296 million tonnes CO₂-eq by 2035.



The largest CO₂ reduction potential lies in reducing the quantities of biogenic material waste streams – including paper, cardboard and biowaste – that is sent to landfill.

The study has been conducted by the renowned research organisations Prognos and CE Delft, on behalf of the European Waste Management Association FEAD, CEWEP, the RDF Industry Group, and the Dutch Waste Management Association DWMA. The full study will be published on their websites on 24 January.

Contact
www.fead.be

New, low-volume biowaste treatment system offers flexibility and sustainability

Suncombe, the cleaning and critical process systems specialists, has globally released the MicroEDS™ BioWaste Treatment System for biologically hazardous waste decontamination. The low-volume system is certified to ASME and ISO/EN standards for treating BSL 1, 2 & 3 waste, using an innovative batch process which allows positive release of all the waste collected.

MicroEDS includes some major technical advances, including thermal energy regeneration, low energy usage, 100% positive release for treated waste and electronic records generation. The new unit delivers 61% energy saving no matter the amount of liquid treated and reduces carbon footprint by up to 1.68 tonnes of CO₂ each year, based on average use, says Suncombe.

For ease of use and installation it is designed to work with a simple 230 Vac 13 amp supply (a domestic plug rating).

Built on a small footprint, the MicroEDS has been specifically developed to fit into new lines or to be retrofitted into existing facilities.

With capacities varied to suit a wide range of waste volume from 150 to 500 litres per day, the MicroEDS is supplied with controls and interlocking functionality. This ensures containment is constantly maintained, with a positive release prior to discharge of treated waste.

Contact: Dave Adams, Director
T +44 (0)208 443 3454
mail@suncombe.com
www.suncombe.com



Electrical & Electronics News

Reduce risk of lightning hazards at work with a lightning warning system

Lightning strikes the ground in the UK around 300,000 times a year, putting at risk those who are often outdoors in exposed, unsheltered locations.

Although there is no full-proof protection from lightning, measures can be taken to reduce the risk of getting struck. With this in

mind, meteorological equipment specialist Biral is offering its BTD-200 self-contained, standalone lightning warning system so that employers can take precautions to prevent exposure to lightning and ensure their workers' safety.

The lightning warning system is a modular

system and is design to operate out-of-the-box. It is also expandable as requirements grow or change. The essential system comprises of a lightning detector which is placed outside. Whilst a PC located indoors runs the supplied Lightning Works software. Users view the lightning in real-time on a map of the local area while displaying the

urgent lightning alarm levels. The BTD-200 can be connected directly to an appropriately sized warning sounder if required.

For more information, visit our dedicated website at: www.lightningearlywarning.com or call Biral on +44 (0)1275 847787 or email: info@lightningearlywarning.com



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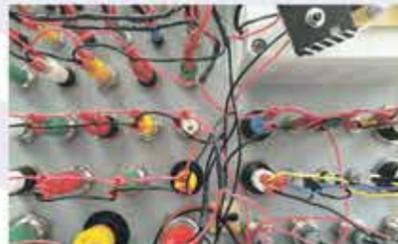
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The right all-in-one device for prelocation, pinpointing and correlation

The **SeCorrPhon AC 200** combines the characteristics of a correlator with acoustic water leak detection. This makes it an all-in-one device for leak detection, which brings together the three important functions of prelocation, pinpointing and correlation in one single, functional system. Users can react to any location scenario, even in the most challenging of conditions. Switching between the different functions or processes is simple and fast.

The **SeCorrPhon AC 200** makes structure-borne and ground-borne noises caused by leaks from water pipes audible to the human ear. The frequency spectrum is traced and made visible on the device, and the current acoustic intensity is shown as both a graph and numeric readout. The user can also see the pre-calculated volume settings and the current frequency analysis of the device on the display at all times.

To then carry out the pinpointing of the leak, the user uses the **TS 200** carrying rod and **BM 200** (for paved surfaces) or **BM 230** (for unpaved surfaces) ground microphone on the section found during the preliminary detection stage.

The **SeCorrPhon AC 200** transmits the acoustic signals and shows the intensity as a graph on the screen, pinpointing the leak with sufficient accuracy to allow confident excavation.

The acoustic features of the piezo microphone are outstanding: even the faintest of leaks or leaks occurring in noisy environments can be identified and detected. At the touch of a button, the **SeCorrPhon AC 200** will apply tailored filters to the current noises and will automatically select the appropriate frequency ranges. Filter limits can also be adjusted to accentuate the leak noise and to permit improved comparability between recordings (e.g. for use in databases or teaching/presentation purposes).

The **SeCorrPhon AC 200** is ideal for use for leak detection across all sections, materials, diameters and lengths of pipelines. Numerous additional functions are also available for complex location scenarios – whatever your leak detection requirements, this system will fulfil all of them.



Correlator and acoustic water leak detector combined

SeCorrPhon AC 200

professional – flexible – intelligent

- Easy and reliable operator guidance through applications
- Integrated audio player to compare leak noises directly on site
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- Sophisticated firmware allows the user an almost automated measuring process



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The UK's chemical industries reunite at CHEMUK 2021

As one of the first post-lockdown national trade show events scheduled at NEC Birmingham, CHEMUK 2021, the UK's Chemical Industries Supply Chain Expo, opened its doors on 15-16 September.

Showcasing over 350 exhibiting companies, the 10,000m² expo floor welcomed some 2,400 visitors, and a further 1,000 from across exhibiting teams over the two days, creating a combined attendance of over 3,500.

Speakers and guest panelists were drawn from across the sector, contributing to some 40 hours of overall market intelligence, tech insight, best practice, case studies, solutions updates for attendee groups. The topics taking centre stage this year included sustainability/net-zero, post-Brexit and green chemistry/biobased.

On this year's attendance, Ian Stone, MD of event organisers UK Industry Events, said, "With strong pre-registration levels and a great buzz across industry and social channels, the industry's eagerness to engage again in a dynamic physical trade show environment was palpable and borne out as soon as the doors opened."

Stone added, "In the wake of unprecedented challenges and



disruptions thrown up to all industries, with the outbreak of the global COVID-19 pandemic, the CHEMUK team were so delighted to see attendee groups from across all segments of the Chemical Industries, as well as representation from across all regions... it was so satisfying to bring the industry back together again."

CHEMUK 2022 will take place from 11-12 May at NEC Birmingham. This is our second pick of the best exhibitors from this year's show, listed here in alphabetical order: Adams Lubetech UK, Cepac Rawcliffe, Francis Ward, Jackson Electronics, Lechler, Meade-King Robinson & Co Ltd, NetterVibration, SIEBEC UK, Sovereign Labelling Machines & VIP Polymers Ltd. Further details can be found on this page and the next.

www.chemicalukexpo.com

Cepac: Together we achieve more

Cepac Rawcliffe has a longstanding reputation for the development and production of speciality and protective corrugated packaging for shipping hazardous goods by road, sea, rail and air. UN certified packaging is officially approved according to international standards for the safe transportation of solids and liquids. UN Packaging is a relatively complex area with no room for interpretation. Everything we do at Cepac is engineered to meet a specific requirement, standard or in the case of UN Packaging: a legal requirement.



Cepac is a packaging manufacturer which specialises in innovative packaging tailor-made for challenging applications. We have a range of packaging designs which depend upon the goods in question and the different levels of stringency.

These range from chemicals to cartridges, from fireworks to flares, all of which are all recognised and certified against the standards set by an internationally respected authority.

Our in-house packaging designers have a wealth of expertise and are always happy to assist. Our expertise is in working with our customers to develop and produce specialist corrugated packaging for hazardous goods.

Contact us at: cepacrawcliffe@cepac.co.uk or call 01405 837400 for specific advice or further information.

You can trust NetterVibration to find the right solution for you

Serving the industry with vibration, NetterVibration holds a leading position in the field of vibration technology. Its productive, intelligent solutions and technical expertise alongside its 'Made in Germany' quality are what forms the basis of the company's success.

Vibrators from NetterVibration are applied in numerous industrial sectors such as Chemical, Food, Construction, and Mechanical Engineering. Its extensive portfolio of products includes Pneumatic Vibrators, Special Vibrators, Feeders, Electric Vibrators, Vibrating Tables, Hydraulic Vibrators, Vibrating Machinery, and accessories. Offering efficient and reliable solutions, NetterVibration's services include conveying, dosing, separating, releasing, compacting, sorting and sieving of bulk materials such as powders, pellets or granulate materials.

NetterVibration develops customised solutions for



all specific applications in close collaboration with its customers. A previous product made unique to customer specifications was an extremely low-built drive unit LineDrive for conveyor/dosing channels or roller vibrators for extremely high temperature (500°C).

For more information, see below where an experienced sales representative and application engineer will gladly advise you on-site.

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Adams Lubetech UK is a part of the Lion Group of companies including Antwerp Lion Oil MV Belgium, Codaitec France and Techno Trans Vertriebs Germany.

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We provide equipment solutions to support customers with their plant maintenance lubrication strategies, ie. delivering metered quantities of lubricant, at the right time, to their plant reducing consumption, minimising friction and wear that so often leads to premature failure.

Major process industries need to ensure they have near continuously operational equipment to maximise daily output. Avoiding and reducing downtime is a key factor in achieving this goal. Managing the lubrication of critical equipment is essential for asset availability and reliability.

Our systems, equipment and components are in use in



virtually all types of significant production equipment including, high pressure compressors, pumps, conveyors, processing equipment, casting, presses, metal cutting and forming machines. Lubrication equipment solutions are supplied to many industries using that equipment, including harsh, corrosive or even hazardous environments, such as chemical plants, food factories, water processing, paper manufacturing industries, materials production, automotive assembly, mining and minerals, etc.

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The VIPSeal® family

VIPSeal® is a versatile range of flexible couplings and adaptors designed to join & repair low pressure & non pressured pipes of any material or size.

Manufactured in the UK by VIP Polymers Ltd with a manufacturing heritage of 100 years and supplying a wide range of industries, the complete range of products meets the requirements of British and several important international standards.

With R&D, rubber compounding and manufacture through to quality control and laboratory testing all under one roof, coupled with the highest quality raw materials, each VIPSeal® is manufactured to the same exceptional quality, meaning they are simple to install and exceptionally reliable which essentially leads to getting the pipe connection sealed correctly, first time, every time.

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and grease between 60°C-125°C

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Lechler: Spray and atomisation

For more than 140 years, Lechler has acquired in-depth knowledge of spray and atomisation processes in a wide range of different applications.

The company has a workforce of around 700 employees and is the market leader in Europe.

Lechler precision nozzles have also provided valuable service in the chemical and petrochemical industries for many years. Thanks to its process engineering knowledge, the Metzingen-based company is more than just a service provider.

In addition to precision nozzles, Lechler also offers customer-specific injection systems for individual process applications. With a wide set of scientifically based processes, simulation and design tools and its

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own state-of-the art development and technology centre, the nozzle specialist also acts as a consultant, partner and innovator.

Solutions from Lechler have demonstrably contributed to efficiency optimisation in many projects and can withstand the highest process demands such as extreme heat, high pressure and corrosive media.

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www.lechler.com/de-en

Remote visual inspection and foreign object retrieval experts

Jackson Electronics undertook its first Remote Visual Inspection (RVI) in 1965 at High Marnham Power Station and has since, completed thousands of inspection and foreign material/ debris retrieval assignments for the Power Industry, Chemical Industry, Oil Refineries and other industrial plant.

The company maintains over 50 years of experience in identifying defects that may affect the reliability of the plant and through this experience, the company has developed the skills and expertise, to enable them to retrieve foreign material even from the most difficult places.

With a commitment to constant development, Jackson Electronics is continuously developing its RVI techniques and has recently upgraded its Boroscopes/Video Probes to the latest HD version

jacksonelectronics

with 3D phase measurement capabilities. In addition, Jackson Electronic has intrinsically safe cameras for inspections within Zone 0 hazardous environments. We have also upgraded our standard inspection equipment to Full HD using an in-house designed and built bespoke viewing box and recently launched a drone inspection service. Excelling in incorporating the latest technologies, the company also boasts specialist cameras for inspecting all types of pipe-work, turbines, vessels, boilers, etc, and plants.

Contact
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Leaders in chemical distribution

Meade-King Robinson & Co Ltd (MKR) is a privately owned chemical distribution company, with a vast history of experience spanning across 150 years, in the supply of a wide range of oils and chemicals.

MKR is a specialist and a leading distributor in Chemical and Oil distribution, offering a diverse product range consisting of: Oleo Chemicals, Base and Process Oils, Waxes, Epoxy Resins and many more.

Providing its products to a diverse selection of industry sectors throughout the UK and Europe, MKR has gained an enviable reputation as a result of its specialist distribution expertise, and has established itself as a key partner to many of the world's largest chemical companies. With a plethora

MeadeKingRobinson

of industry leading expertise, MKR is able to offer a comprehensive distribution and storage solution to meet the requirements of all of its customers and suppliers.

MKR attended the CHEM UK 2021 event this year and the show was a great success for the company. MKR is looking forward to attending the event again next year!

For more information, please see the details below.

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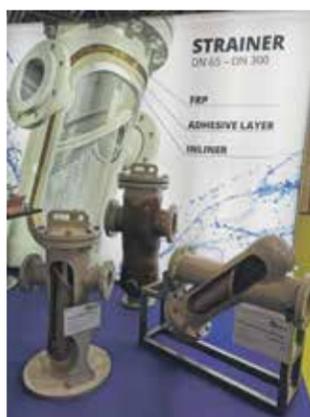
Kwerk GmbH is a global one-stop-shop offering customised solutions for plants and equipment to customers in the industrial, chemical, food and process industries through its extensive online range. Over 45 domestic and overseas manufacturers and suppliers work with Kwerk GmbH to offer their products online, including: FIP, Hayward, IPS, Durapipe, HOKA, Gemü and many more. Kwerk GmbH's product portfolio meets the needs of hundreds of customers in currently over 62 countries.

Furthermore, Kwerk GmbH complements its product range with its own products such as the Multiflex Block®, a tool for filling, removing and monitoring IBC containers, a large range of FRP strainers for filtration of coarse dirt in the chemical industry at high pressures, static mixers in various designs for easy mixing and dosing in pipelines and much more.

The next milestone is set by Kwerk GmbH with their configurators for the Multiflex Block®, flanges, flow meters and dosing tanks. Here the customer gets a tool to easily and precisely configure the solution tailored to their needs, which is always cross-checked by the technical department after inquiry or order.



Kwerk GmbH, founded by Franz Wolber and managed by Franz Wolber and Bianka Muzzalupo-Heuvers, is based in Germany and is a leading B2B supplier and manufacturer of plastic components and piping systems. In 2015, Kwerk GmbH won third place at



manufacturers and suppliers from all over the world.

From small businesses to multinational corporations, Kwerk GmbH works with customers ranging from regional craftsmen to internationally active industrial companies. With its diverse profile, the company also offers large quantities of equipment in the fields of ventilation, tanks, filters, measurement and control technology, and special designs.

In addition to its core products, Kwerk GmbH offers a wide range in the field of plastic systems, consisting of a range of different materials such as PVC U, CPVC, PE, PP, PVDF and GRP, as well as electrically dissipative plastics for the ATEX sector. Which are manufactured with different joining techniques. Typical products include ABS piping systems, flow meters, fittings with



the INTERNET WORLD Business Shop Awards 2015 in the category 'Best B2B Shop' and is still considered a global leader in the supply and distribution of industrial plant equipment and thermoplastic/duroplastic piping systems, to



various actuators, acid vapor separators, manholes, sight glasses, inspection ports, etc.

Over the years, Kwerk GmbH has built and maintained a continuous relationship of trust with its customers. Each customer is assigned a personal contact person for coordination and communication. Kwerk GmbH takes its customer relationships very seriously and describes them as a firm foundation for the company's success.

Customers can be assured that every product sold by Kwerk GmbH meets the highest standards of quality and process design. If you are interested in becoming a customer of Kwerk GmbH, then the long-standing cooperation with its partners and renowned manufacturers is a shining example of the overall concept of Kwerk GmbH. The web store offers many advantages such as only three clicks to the product, custom-made products from the specialist workshop, fast online processing, payment on account if possible, and quality products from a single source.

As a potential cooperation partner, Kwerk GmbH offers a unique online platform with a detailed and clear product portfolio, a virtual free field service and 24 hour sales generation. Potential savings in



marketing and advertising costs, the possibility of direct forwarding of online orders and support-intensive inquiries, and access to a complete product range that can be put online with one click are just some of the benefits of partnership. Each service is backed up by statistics showing a high number of website visitors and new contacts made through the well-known platform.

Full service at the highest level – that is what distinguishes Kwerk GmbH. In addition to its corporate strategy, the company also relies on strong sustainability practices. The promise to reduce costs in all areas, to use holistic and resource-saving technologies and products, to support fair trade and to contribute to the protection of natural resources is only a small part of the mission statement of Kwerk GmbH.

If you are interested in becoming an exclusive sales representative or partner, or if you are looking for new products and solutions, Kwerk GmbH is your perfect partner. For further information, please visit: <https://en.kwerk.de/> or email: info@kwerk.de or call +49 (0) 2602 99973-0.



One of the UK's best suppliers of reusable containers

Francis Ward is part of the Rotational Moulding Group Limited which is one of the leading companies in the field of Rotational Moulding in the UK and Europe. The group operates from three sites in the North of England providing custom moulding services to a wide variety of industry sectors. In 2015, Francis Ward became the packaging division of the Rotation Mouldings Group Ltd and now manufactures reusable intermediate bulk containers and plastic drums for the storage and transport of hazardous and non-hazardous liquids and solids.

This year, Francis Ward was among 350+ featured exhibitors at the CHEMUK 2021 Expo which was hosted at the NEC in Birmingham. The two day event was a fantastic opportunity for Francis Ward to showcase its products and speak to other industry professionals and interested attendees.

Producing a high specification of Intermediate Bulk Containers and drums in Polyethylene Plastic, Mild Steel and Stainless Steel, every container produced gives years of safe and reliable performance in



tough demanding industrial environments such as chemical, offshore and intensive food manufacturing.

The show was a fantastic opportunity for Francis Ward to mix with customers from all sectors and give the company a platform to showcase its full range of products for both dangerous goods and general purpose applications.

**Contact: Ian Radcliffe
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M 07860 855000
iradcliffe@francisward.com
www.francisward.com**

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- Comprehensive range of filter system from 100-80,000 lph for chemical processing. These modular systems are universal

and offer a comprehensive range of filter media options including our patented large surface area reusable L-TECH filter media.

- Thermoplastic pneumatic Vacuum for corrosive fluids. Ideally for process maintenance and cleaning spills and sumps. Vacuum design facilitates both suction and discharge of solution.
- Filter media, all types and materials including filter bags, L-TECH pleated cartridges, extruded cartridges, wound cartridges, anode bag, block and carbon impregnated cartridges.
- Chemical pumps for solution transfer. Comprehensive range include mag-drive, mechanical seal, vertical pump, peristaltic pumps. Most pumps self re-priming.

New SIEBEC brochure – Dedicated Equipment Surface



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The Sovereign Standard

Sovereign Labelling Machines was established in Essex back in 1993, since then the company has grown to become a brand widely recognised for its design & manufacture of top-quality, reliable labelling & sleeving machinery across many industries and across the world. This success is the product of a strong determination to maintain a standard that exceeds expectation – we call this The Sovereign Standard.

Our, unique, fully stainless-steel systems are designed to suit even the harshest of production environments with the renowned benefit of minimal on-going maintenance costs, ensuring that production lines all over the world can operate at the highest level, with the most reliable and efficient outcome.

Sovereign Labelling Machines became part of the ENE Group in 2018 and has continued to succeed both in terms of capabilities and expertise,



while still maintaining the high standard that has been associated with the brand since its early days. Our bespoke & innovative machinery is now manufactured at our state-of-the-art facility in Banbridge, Northern Ireland, which is equipped with the latest CNC laser cutting, milling and turning machinery. We also boast one of the finest stainless-steel fabrication facilities in the country that is the epitome of

tailor-made engineering. This, alongside our facilities & team of experienced professionals based in Clacton-On-Sea, allow us to provide clients with a comprehensive range, covering all production line needs, which can span from small, standalone units to complete, bespoke production lines.

**T 01206 304182
sales@sovereign-labelling.co.uk
www.sovereign-labelling.co.uk**

Bradshaw EV: PT2500

Bradshaw has announced the launch of its all new state of the art The PT2500, a fully electric, remote-controlled, pedestrian-operated tow tractor designed for moving articulated lorry trailers up to 25 tonnes in manufacturing and distribution applications.

Overview

The PT2500 is a powerful, robust, high performance articulated trailer mover. It is easy to operate and moves trailers safely with exceptional manoeuvrability, negating the need for terminal tractors. The high-performance electric motors can tow up to 25 tonnes, and the hydraulically powered column lift can hoist up to 6,000kg. The remote-control functionality provides enhanced flexibility, manoeuvrability, and safety and optimally uses limited space. Simple to operate and low maintenance, the PT2500 is an ideal partner for anyone working in logistics and distribution.

Enhanced visibility & manoeuvrability

The remote-controlled PT2500 allows trailers to be shunted safely and efficiently with no strain to the operator. Providing excellent visibility from any angle, the PT2500 & its remote control functionality let the operator walk around the trailer during manoeuvres, making them completely visible and the ability to be their own banksman, all from a safe distance. Connecting the PT2500 to the fifth wheel is quick and easy, thanks to its precise manoeuvring abilities.

Space-saving

With superior manoeuvrability, the PT2500 is ideal where space is a premium, presenting outstanding turning capabilities compared with terminal tractors. The PT2500 accesses tight spaces, turning almost on itself and allowing trailers to be parked tightly, thereby optimising limited space.

Remote control

Controlled via the MLTX2 bellybox transmitter, the system incorporates the latest electronic technology in a lightweight, comfortably contoured, and durable case. Easy to use, the angled lever controls enhance operator comfort. The remote-control housing is constructed from super-tough nylon to withstand shock, and the IP66-rated sealed unit can withstand harsh industrial conditions. Synthesised frequency generation enhances reliability for a robust and reliable signal. The access code system provides peace of mind, as the signal only operates the intended equipment. Designed to minimise power consumption, the NiMH battery packs provide longer life between charges. The PT2500 remote comes with two battery packs, one for the remote control and a backup; both can be charged on the vehicle.

Braking systems

The PT2500 features a built-in air compressor system to operate trailer brakes utilising a dual-air brake system via the service and emergency airlines. When the tractor brakes are activated, the trailer service brakes are also activated and vice versa. The trailer mover features an e-stop; if the e-stop on either vehicle or remote is activated, this will dump the air, activating the emergency trailer brakes. A speed limiter controlled via a pressure sensor on the mast hydraulics activates when operating the fifth wheel, reducing the vehicle's speed during coupling. The vehicle also features electronic regenerative braking under deceleration and dynamic speed-sensing to prevent over speeding. An automatically applied transmission parking brake ensures the vehicle remains stationary when not in use.

Fully electric

The robust and powerful high-performance trailer mover features an 80 volt AC controller, and the high-capacity 80V 210Ah lead-acid batteries provide high initial torque and smooth acceleration. Fully electric, the PT2500 is a

sustainable, environment-friendly, and cost-effective alternative to diesel shunters. Producing zero emissions and no exhaust fumes, the articulated trailer mover can be used indoors for a healthier working environment. In addition, the PT2500 lorry tug is silent to operate, making night and early morning operations possible, especially close to residential areas. In the absence of a combustion engine & fewer moving mechanical parts, the PT2500 is straightforward & cost-effective to maintain.

Cost efficiencies

Developed for logistics and distribution, the PT2500 trailer mover has been designed to aid 24 hour operations.

Negating the need for an HGV driver to be on-site, the remote-controlled technology means articulated trailer movement can be a one-person function. Anyone with operator training can operate the vehicle without an HGV licence.



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TOW 25-TONNE LOADS AT THE TOUCH OF YOUR FINGER TIPS

The PT2500, a fully electric, remote-controlled, pedestrian-operated tow tractor designed for moving articulated lorry trailers up to 25 tonnes.

Remote-control functionality provides enhanced flexibility, manoeuvrability, and safety and optimally uses limited space. Simple to operate and low maintenance, the PT2500 is an ideal partner for anyone working in logistics and distribution.

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Navigating the challenges of the Suez Canal

It requires a raft of complex bureaucratic approvals, timely logistics, tight scheduling and close monitoring to ensure the smooth transit of between 50 and 70 ships daily along the narrow Egyptian waterway that is a vital artery for the flow of world trade.

"Nothing can be left to chance and there is no room for delay as this can prove costly for the shipowner," says Aziz Nabil, operations manager for Inchcape Shipping Services Egypt.

About 12% of international trade passes through the 193 kilometre canal that connects the Mediterranean Sea and Red Sea, making it the shortest shipping route between Asia and Europe. The risks of negotiating the man-made route were highlighted with the dramatic grounding of the giant containership Ever Given in March this year that blocked the

Suez Canal for a week – delaying some 369 ships carrying an estimated \$9.6 billion of trade – before the ship was finally refloated.

The Suez Canal Authority (SCA) subsequently filed a \$916 million claim for compensation for lost revenue and salvage costs due to the incident, attributed to a navigational failure caused by reduced visibility in high winds and a sandstorm, and the ship was detained for three months until the financial dispute with the shipowner was resolved.

Nabil points out that, while Inchcape did not act as the transit agency for the Ever Given, it was one of the first agencies to report the incident and the first to notify the world when the ship was freed, given it has 24/7 surveillance of traffic on the Suez Canal.



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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, i.e. after each dive.

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

Riding wave of BWT retrofit demand surge

The market is heating up for ballast water treatment (BWT) systems amid a retrofit rush that has resulted in a recent surge of orders for leading supplier Optimarin – and it says fast-track delivery is vital to meet soaring demand.



Shipowners are continuously upgrading their vessels with BWT systems ahead of a 2024 deadline for compliance with the IMO's ballast water management convention and this has triggered a wave of orders that has challenged the capacity to deliver of some overstretched suppliers, according to Optimarin.

"We have been gaining new clients at an increasing rate every month throughout 2021, both in our established markets and those where we have previously sold fewer systems, with a 15-20% year-on-year increase in the number of systems sold to date," says chief executive, Leiv Kallestad.

"We believe this is a factor of our capability for fast-track delivery with a turnaround time on orders of about 30 days – and in some cases down to only 10 days – compared with typically around three months for the industry."

He attributes this to the company having readily available approvals documentation, a very fast and efficient ordering process, and the flexible modularity of its system to ease installation.

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Photo: fashion distribution center where retail + e-commerce are processed simultaneously

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Resin flooring specialists you can count on

In this issue of Industrial Process News, we are pleased to announce Abacus Flooring Solutions Limited as our Specialist Resin Flooring Contractor of the Month.

Abacus Flooring Solutions Limited was established in July 2020 by Nick Megson. Starting his career working for Tarmac, following a promotion to Special Projects Representative specifying and selling concrete, Nick soon developed vast amounts of knowledge on operating as part of an experienced resin flooring company. In 1989, Nick moved into the industrial resin flooring industry and gained great knowledge from both resin manufacturers and resin flooring contractors. After winning multiple awards for sustainable and environmental good practice within the industry, this led Nick to establishing his own company, Abacus Flooring Solutions from its base in Leicestershire.



Today, Abacus Flooring Solutions Limited operates within and serves all manufacturing industries installing a full range of seamless resin flooring. We asked Nick what benefits



the company offers over competitors, he answered. "We have a world first floor screed that was designed by me and is made using recycled white plastics. This screed won the Environmental Impact award on the 3rd of December. Our specialist floor screed is made using recycled toilet seats. It is a world first; no-one



has ever done this before."

After serving on the Resin Flooring Association (FeRFA) Council for a number of years, Nick's extensive industry knowledge, expertise and experience has enabled Abacus Flooring Solutions Limited to successfully serve a number of industries such as manufacturing, garages, automotive, transport, emergency services, engineering, chemical, aerospace and more.



Offering a full range of flooring solutions, including Epoxy, Polyurethane, MMA and Polyaspartic, each flooring solution is available in varying types, thickness, colour and properties and carry the flexibility to be tailor made to exact requirements. All services include a free site survey, allowing Abacus Flooring Solutions Limited to deliver a detailed quotation. By calculating the full life cycle costing for each project, supported by full warranties, Abacus Flooring Solutions Limited can then provide each customer with an exact cost to suit their budget.

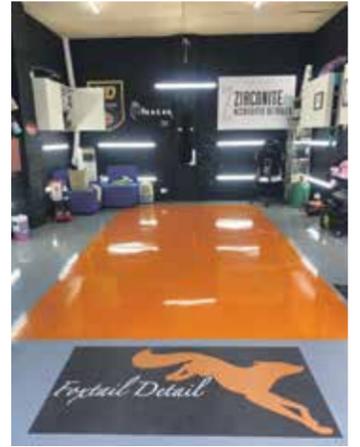
Additionally, Abacus Flooring Solutions Limited also

provides assistance with other services including installation of stainless-steel drainage systems and safety demarcation. A full site report will cover expansion joints, aiseways, safety demarcation alongside a full factory maintenance programme offering slip tests and solutions.

As well as excelling in business progression, Abacus Flooring Solutions Limited also support its local community, giving back where it can. "We support Rainbows Hospice, the local football team, and are proud Blue Planet sponsors for removing plastics from our oceans. As far as future plans go, we have big aspirations to grow the business into a place where people want to work and we plan to start gifting shares to employees," stated Nick.

Abacus Flooring Solutions Limited pride itself on understanding customer needs and supply solutions from as little as £5.00/m² (subject to selection). Customers needs are kept at the forefront throughout to ensure every project is delivered beyond the customers satisfaction. As Abacus Flooring Solutions Limited are approved by most resin flooring manufacturers in the UK, customers can be sure to receive the best in market choice.

For more information, see below:
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www.abacusflooringsolutions.co.uk



Handling, Storage & Logistics News



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Safe breathing air supply: A new era of breathing air purification

The production of breathing air is one of the most sensitive tasks in medical and industrial applications. In an environment where respiratory masks and protective suits need to be worn, it is essential to supply employees with clean breathing air that complies with the requirements of DIN EN 12021 and DIN EN ISO 7396-1 and the quality standard of the European Pharmacopoeia. A stationary or mobile compressed air supply is available for applications involving exposure to dust or solvents, such as sandblasting and painting work, long-term refurbishments contaminated with asbestos, and in the chemical and pharmaceutical industries under the influence of gases and contaminated aerosols. This compressed air, generated under a wide range of environmental conditions by compressors of various types, must be processed into breathing air that meets these specifications.

It was a complex task to develop a breathing air system that can be used equally flexibly for different areas of application and that reliably ensures the supply of breathing air in accordance with this high-quality standard while requiring little space. Building on the experience gained in the use of the modular, heatless, plug & work, compressed air purification system Ultracac[®] Smart, Donaldson developed the Ultracac[®] Smart breathing air system, which sets a new standard through its compact design and easy access to all components. Modularity allows for both vertical and horizontal operation, and the rotatable display can be placed independent from the dryer to easily monitor functions. An advantage for plug & work use: the inlet and outlet



connections can be rotated to the position required at the installation site for pipe or hose connections, eg. with quick-connect couplings. To ensure very quiet operation even in laboratories or medical applications, a silencer specially developed for this dryer range is integrated to reduce the sound level to the 60 dB(A) range.

CAP-de@donaldson.com
www.donaldson.com/en-be/compressed-air-process/
products/compressed-air-gas/breathing-air-systems/
ultracac-smart/

Truvox International launches new Multiwash™ Pro

Truvox International is launching a new, re-designed range of their Multiwash™ scrubber dryers.

"Our Multiwash II has been the benchmark for scrubber dryers for many years, and we are delighted to be launching the new Multiwash™ Pro range," says Truvox International Executive Director, Gordon McVean. "The new three-product range washes, scrubs and dries in a single pass, giving improved and unrivalled cleaning results, and leaving floors ready for your customers and staff to walk on."

Effective on all floors – from carpets to hard floors, and escalators to entrance matting, the Multiwash™ Pro leaves floors ready to walk on in minutes. Available in 24cm, 34cm and 44cm cleaning widths, the Multiwash™ Pro delivers productivity rates from 250m²/h to 450m²/h, and is easy to assemble, use and maintain. The new design features an increased brush diameter to provide improved cleaning performance, and the tanks are accessible and easily removed for fast filling, emptying and cleaning. The Multiwash™ Pro delivers exceptional productivity with a 4 litre tank, while an optional 7 litre tank is also available.

"Since the pandemic, hygiene has become the biggest priority in all premises and cleaning has become more



of a 'front of house activity', so a top priority during the design process was to ensure that the Multiwash Pro range is simple and easy to use, while also looking great."

Truvox International launched Multiwash™ Pro at The London Cleaning Show, and at The London Vet Show in November 2021.

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Environmental Science Group Limited: Keeping up with the changes to GHS Safety Data Sheets



At a recent seminar, it was announced that there would be new requirements to Safety Data Sheets (SDS) in compliance with GHS Regulation. SDS are legal documents required for UK REACH Regulation and they contain important information necessary to allow employers to do a risk assessment as required by the Control of Substances Hazardous to Health (COSHH) Regulations.

The major changes for GHS SDS are as follows:

- Unique Formular Identifier (UFI)
- Information on nanoforms
- Information on endocrine disrupting properties
- Information on Specific Concentration Limits (SCL), M-factor, ATE in Section 3
- Sensitisers, Carcinogens, Reproductive and Endocrine Disruptive Components have to be reported at lower levels
- Section 9 is aligned with the GHS
- Section 14

The Regulation came into force from 1 January 2021 which means that all new Safety Data Sheets will need to be produced taking into account the new requirements. All existing Safety Data Sheets will need to be updated by 31 December 2022.

As part of the annual maintenance service, ESG has responded to the needs of its clients by reviewing their SDS and updating them accordingly. In all cases, the SDS templates needed to be modified and data

gathering to include in relevant sections of the SDS.

In addition, where relevant, the corresponding COSHH Risk Assessments and WASP Hazard Sheets have been updated for their clients.

For further information, please contact:
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www.envsciencgroup.com

New modules for efficient and safe signal evaluation

Space-saving: Safety relay module SRB-E-302ST and output expansion SRB-E-402EM

Schmersal launches two new safety modules: the safety relay module SRB-E-302ST and the output expansion SRB-E-402EM are efficient and space-saving solutions for safe signal evaluation.

One evaluation unit for two safety sensors: the most striking feature of the SRB-E-302ST safety relay module, with which Schmersal will replace several modules in the outdated AES series. The module enables monitoring of all common electromechanical and electronic safety switches and safety sensors, as well as active opto-electronic protective devices (AOPDs). Depending on the application, the module switches with the fail-safe relay contacts or wear-free with a fail-safe semiconductor output. The module allows the realisation of applications up to category 4/PL e (EN ISO 13849-1) as well as SIL 3 (IEC 61508).

The new series gives the electrical designer scope to save space in the switch cabinet and reduce costs, while at the same time utilising the full functionality of a state-of-the-art safety module twice over. Control is either single-channel or dual-channel and the module comes with functions including stop 0, autostart and reset with edge monitoring, plus the option to select from 24 pre-configured applications with a rotary switch. The user can select the start function with a second rotary switch.



Also new is the SRB-E-402EM output expansion, which, like the SRB-E-302ST, is accommodated in a modern and compact housing from the SRB-E series. The output expansion allows designers to duplicate and reinforce the contacts of fail-safe relays and semiconductor outputs. Four safety contacts, two signalling contacts and feedback contacts are available. The new safety module can be used as an expansion module for all safety modules and safety controllers with feedback loop monitoring. When compared to the predecessor series, the new module is characterised by more compact dimensions and an increased temperature range (-25°C to +60°C).

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Molecular Property Spectrometer™ Flammable Gas Sensors

NevadaNano, the world's leading innovator in gas detection sensor technology, announced that Crowcon Detection Instruments Ltd. is using the Molecular Property Spectrometer™ (MPS) Flammable Gas Sensors in its Gasman flammable gas detection product, making it the industry's first viable personal single-gas detector to create safer work environments.

NevadaNano offers a range of unique gas detection sensors for flammables, which deliver unprecedented reliability and accuracy. Unlike traditional sensors, the MPS sensors accurately report 0-100% LEL across 19 flammable gases with a single factory calibration and no field maintenance over their lifetime. This capability addresses the need for a flexible sensor platform suitable for complex industrial environments & offers life-saving accuracy in environments with blended combustible gases.

Integrated, real-time measurements and built-in compensation for temperature, pressure, and humidity enhance the



accuracy of the MPS flammable gas sensors. Gas concentration readings are accurate across the entire environmental range, including rapid environmental transients, delivering best-in-class false-positive accuracy. The company's MPS sensors are inherently immune to drift, decay, or poison.

The Gasman with MPS is ATEX Zone 0 approved, allowing operators to enter areas where an explosive gas atmosphere is present continuously or for long periods without fear that the Gasman will ignite their environment. In addition, the battery life with the MPS sensor is over quadruple legacy solutions, protecting workers for more extended periods.

For more information, contact NevadaNano at: info@NevadaNano.com or connect on LinkedIn.
For more on Crowcon, call +44 (0)1235 557700 or visit: www.crowcon.com and connect on Twitter and LinkedIn.

Crowcon launches FGard IR3 flame detector

Crowcon Detection Instruments Ltd has launched a new multi-spectrum IR flame detector that identifies hydrocarbon liquid fuel and gas fires from long distances and uses the latest IR flame detection algorithms to maximise its immunity to false alarms. In independent testing, the FGard IR3 detected a hydrocarbon fuel pan fire of 0.1m² in less than 5 seconds, from a distance of 60 metres (around 200 feet). This, along with its explosion-proof build, intelligent heated optics (which ensure operation in harsh conditions) and advanced optical verification, makes the FGard IR3 flame detector ideal for high-risk industries that need fast, efficient and reliable flame detection. Most suitable for and offshore energy processing, green energy production, aviation and aerospace, petrochemical, civil engineering and power generation applications.

As an IR3 flame detector, the FGard IR3 uses multiple infrared

(IR) wavelength bands to isolate and identify hydrocarbon flame from the inevitable background radiation 'noise'. This makes it very accurate and unlikely to trigger a false alarm. However, while conventional IR3 detectors are often susceptible to 'blinding' by surface water (especially on the detector window) and can be compromised by other environmental conditions, the FGard IR3 has been engineered to overcome these problems.

For more on Crowcon, call +44 (0)1235 557700 or visit: www.crowcon.com and connect on Twitter and LinkedIn.



Bio-Testing experts since 2002



practices by providing the necessary equipment. We proactively educate companies on our equipment and best practice procedures for their employees by providing training on-site or via our eLEARNING platform."

Drug and alcohol use in the workplace is an increasing problem for employers in the UK. Evidence of employees turning up to work under the influence is unfortunately increasing year on year. The other problem employers face are the many claims other drug and alcohol testing companies make on the accuracy and reliability of their products. From the

start, AlcoDigital has always tried to offer the most reliable and accurate testing equipment that is also cost effective to cover and suit any budget. "We don't make claims we can't back up. Innovation is key for us. As we are a small company, when we have new products, we always approach our clients presenting them with any new equipment we feel is best suited to their needs. We have the capabilities to proactively communicate and maintain a close relationship with all our clients. Over the years this has built a firm trust between them and us, that they know they are receiving a first-class service with reliable and accurate products personalised to their needs," stated Suzannah.

AlcoDigital's products are advised for and useful to a plethora of industry sectors such as transport, healthcare, construction, retail, and government. Mainly working in the B2B market, previous clients include the NHS, rehabilitation centres, Hovis, BP, Aldi, Motorline, University of Bristol, Logistics UK, and many more. AlcoDigital recognise that the requirements of each company or organisation are unique, so it is able to provide tailored advice and training to ensure each company's drug and alcohol policy works effectively.

By developing and implementing alcohol testing in the workplace, there is proof it helps to reduce absenteeism, increase productivity and reduce accidents where alcohol is a contributory factor. AlcoDigital has created a unique and brand-new concept, Worksobar, which is a fully automated alcohol screening system for contactless alcohol testing in the workplace with facial recognition. Available as either a mobile breathalyser or a wall-mounted device, Worksobar allows for remote monitoring and testing of an unlimited number of employees over multiple sites via cloud-based software and automated on-site testing devices.

Providing a complete solution to alcohol screening, Worksobar can screen up to 300 employees per hour. By using facial recognition and built-in RFID technology, Worksobar can identify employees and provide evidential data in real-time. If alcohol is detected, the system automatically sends SMS notifications to the nominated contacts. The system also comes with access to your own online portal to manage your data such as individual test results, screening data and statistics over time.

Education is key to AlcoDigital's practices, offering a wide range of training options for individuals, companies and government bodies covering both general drug and alcohol substance abuse training and product-specific training for in-house testing. Training courses are held in flexible environments to suit the organisation including on-site, in a classroom, online via eLEARNING self-taught refresher courses or hosted as a webinar via Zoom. "Training is a big part of the business. We always highlight the importance of training first before enforcing our products. This allows the employer to make an educated decision on the correct equipment they will need and how best to implement it. Our



eLEARNING refresher course is the most easily accessible method of training and is CPD accredited, giving companies a certified level of achievement that can be monitored going forward," stated Suzannah.

AlcoDigital also offer a range of premium digital breathalysers with the AlcoDigital NEO Smart breathalyser being the most recent, innovative alcohol tester added to the range. With a Police-type fuel cell sensor, it can be connected to the iSOBER mobile app to track results. "Using your phone, the user takes a photo of themselves and via a Bluetooth link their breath sample, photo and GPS location is sent by email or SMS to their chosen recipient. It's a useful low-cost way to remotely manage your employees. Ideal for companies who have remote based workers or don't have centralised depots that they pass through daily where they could be tested, NEO ensures easy, reliable and accurate test results within seconds," explained Suzannah.

Since COVID-19, AlcoDigital has been offering a full range of antigen and antibody testing solutions to many of its clients who were classed as key workers. Through this service, AlcoDigital was able to help keep workplaces safe for their clients while enabling their businesses to remain in operation. AlcoDigital can offer kits for the workforce self-testing or can provide a qualified nursing team along with necessary PPE & test-kits to carry out on site testing at your premises.

In the future, AlcoDigital is looking to extend its experience and expertise into the road safety market, while continuing its efforts in raising awareness



to the government for better testing practices in business environments. Special rates are available for Industrial Process News readers. Please contact AlcoDigital quoting this article for more information.

T 0208 454 7372
www.alcodigital.co.uk



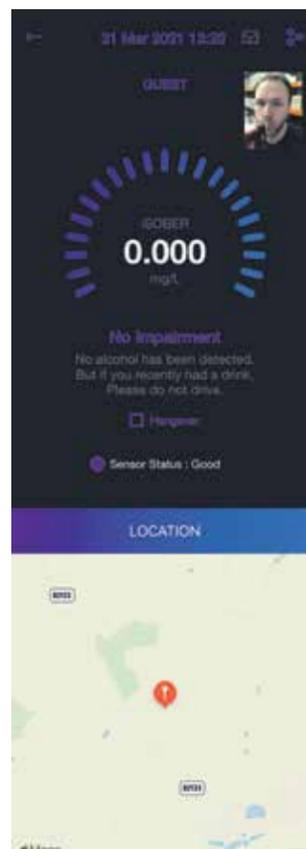
In this issue of Industrial Process News, we are pleased to announce AlcoDigital as our Bio-Testing Company of the Month.

AlcoDigital are the UK's leading Bio-Testing experts that have been helping individuals, corporate and government organisations find the right solution to their alcohol and drug testing needs since 2002. Founded by Chris Deith and Suzannah Robin, current Managing Director and Operations Director, AlcoDigital originally started as an ecommerce website aiming to provide breathalysers to individuals for personal use. Chris and Suzannah rapidly realised that there was a large gap in the market in providing breathalysers to corporate companies on a national scale. Today, AlcoDigital provide a wide range of testing equipment for alcohol, drug and COVID-19 alongside being authorised service agents for a large range of breathalyser kits.

With its main office based in West Sussex, AlcoDigital also has coverage across the UK and Ireland with Sales and Training Executives located in Sheffield, Liverpool, London, Belfast, and Bristol. We spoke with Suzannah who explained the role of the company in more detail, "We provide industry-leading alcohol, drug and COVID-19 testing equipment, training and servicing. We help organisations and workplaces to best implement drug and alcohol testing to their



Suzannah Robin

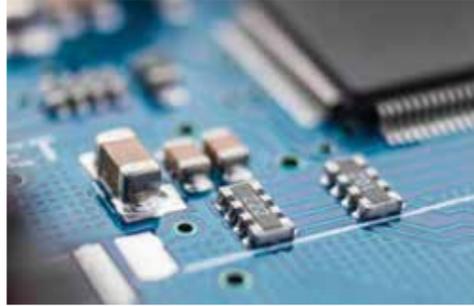


BEC Distribution Limited cuts competitor lead times in half



In this issue of Industrial Process News, we are pleased to announce BEC Distribution Limited as our Electrical Component Distribution Company of the Month.

Do you have new projects that require passive components such as High Current Power Inductors, Power Inductors, Chip Inductors, Common Mode Choke, Line Filter, Transformers and LAN Magnetics?



"Many manufacturers are going on massive lead times of 18-26 weeks if not longer and allocations are being put in place. We can offer alternatives from 5-7 weeks delivery (excluding public holidays) that many of our customers are switching over to. We can also offer this service with samples and spec sheets available upon request," stated John Dodds, Sales Director.

BEC Distribution Limited offer premium drop-in alternatives for TOKO/MURATA, Sumida, Coilcraft, Cooper, Bourns, Vishay and many more.

The company prides itself on its vast knowledge and technical information of its franchised product range to which its customers rely on.

A main focus for BEC Distribution Limited is its diverse offering of discontinued inductors for end-of-line (EOL) products. BEC Distribution Limited has noticed clients within the industry are left waiting up to 30 weeks for some manufacturers to deliver their desired parts. With this knowledge, BEC Distribution Limited offers a solution. BEC Distribution Limited offer replacements for obsolete TOKO/MURATA including EOL types for TOKO 8RHB2, TOKO 8RB, TOKO 10RB, TOKO 8RBS, and many more.



Resulting in no more long lead times, BEC Distribution Limited is able to offer customers EOL passive components to help buyers and engineers in the Electronic Components industry facing EOL issues.

Alternatives for Shielded Power Inductors, Multi-Layer Ceramic Chip Inductors, Radial Peaking Coils, Open Wire-Wound Chip Inductors, and Thin-Film Chip Inductors are also available. The issue most engineers and buyers face are that large manufacturers tend to discontinue products after 5-10 years leaving industries such as aerospace, medical, surveillance and defence in a situation where they need products that far exceed a minimum of 10 years.

BEC Distribution Limited is a saving grace to engineers and buyers alike offering its ability to shorten lead times for these industries on many products. Furthermore, if a required component is out of stock, BEC Distribution Limited's customer service team demonstrate patience, 'outside the box' thinking and product iteration to track down and source the nearest matching alternative, ensuring all clients projects run smoothly and efficiently.

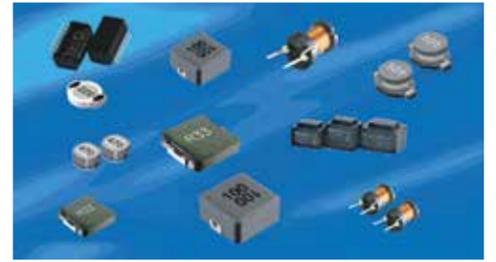
BEC Distribution Limited is based in Buckinghamshire and ships all over the world. Since John Dodds was appointed as Sales Director, he has developed the



business to serve the electronic components needs of its customers by way of attractive prices, quick response times and excellent customer service. BEC Distribution Limited can offer a tailored solution to each individual client ensuring specific requirements are met through offering the quickest lead times on the market.

Establishing a flexible approach to manufacturing, its swift distribution enables lead times to be cut in half. Processing large batches of product can come with many hidden costs, leaving customers waiting a long time for products. BEC Distribution Limited offer a leaner approach to manufacturing using its extensive industry experience and knowledge, the company has manoeuvred itself into a very niche market offering alternative products with reduced lead times that conversely save overall expenditure.

T 01844 275824
sales@bec.co.uk
www.bec.co.uk



Modula releases its latest range of new industrial storage solutions

In this issue of Industrial Process News, we are pleased to announce Modula Storage Solutions as our Automated Vertical Warehouses Manufacturing Company of the Month.

Modula Storage Solutions is the UK subsidiary of Modula SpA. Its corporate headquarters is based in Salvaterra di Casalgrande, Reggio Emilia where its main production plant is located. The company has a production capacity of 3,500 machines per year that are manufactured out of its production facilities in China, Maine and Ohio in the USA. Modula companies and dealers are located throughout the world allowing the company to service all its main markets and respond quickly and locally to its client's needs.

The first Modula was designed in 1987 by Mr Franco Stefani. Since establishment, the company has developed a global presence, being well-known for its innovation and has more than 15,000 clients around the world. "We manufacture automated storage solutions, mainly Vertical Lift Modules and Horizontal Carousels. In the UK we supply, install and maintain the full range of Modula Solutions in companies as far



Franco Stefani

afield as Banff in Aberdeenshire to the South coast of England, and everywhere in between. We specialise in warehouse automation and storage retrieval systems. Our solutions are used in a wide variety of industry sectors including aerospace, automotive, food and drink, pharmaceutical, oil and gas. We cater to most manufacturing industries, in fact, any sector which has a requirement to efficiently store and retrieve products. More recently, many companies in the E-Commerce/E-Retail sector are finding that Modula solutions not only save space but also massively improve the speed and accuracy of their picking operations," said John Farren, Sales Manager.

Recently Modula Storage Solutions has launched three new machines for use in specialised environments which are the Modula Clean Room: Storage systems for clean rooms, Modula Climate Control: Controlled temperature and humidity storage systems, and Modula Dry: Low

humidity (dry room) storage systems. These Modulas allow the user to fully control temperature levels, humidity and bacteriological levels.

The features of the new machines enable users to maximise their profitability with a positive ROI within one year of usage. Modula's are used in almost every industry sector from textile to electronics. Its multifaceted profile offers advantages such as rapid installation, zero picking errors, up to 90% space saving and capabilities of picking up to 140 cycles per hour.

Furthermore, the company has also launched The Modula SLIM which is a compact vertical storage system that includes all the benefits of a vertical lift system in the space of a vertical carousel 3sq.m floor space. Perfect for storing loose materials inside, the Modula Slim reduces picking times and keeps stock levels under control with an easy management system.



Since COVID-19, Modula Storage Solutions has adapted its marketing approach to make other companies more aware of its efficient and easy storage management solutions.

"Modula helps other companies to change its operations. Stock can be managed within a Modula far more efficiently and with less people. This helps with social distancing as less people are required for picking operations. It is also easier to sanitise the single access point of a Modula, rather than the hundreds, or even thousands of pick faces that traditional shelving and racking have. COVID-19 has also led to a faster rise in eCommerce as more people shop online, Modula is ideal for this type of industry. Faster picking, better stock control, less pick errors and of course space saving, are all major benefits that these types of companies can achieve when they install a Modula solution," said John.

Think Vertical, Think Modula. Looking forward, the company will continue growing the way it has been over the past few years, taking advantage of new opportunities that offer growth within the online sector.

Contact
T 0844 902 8945
info@modula.com
www.modula.eu

The complete manufacturing solution

Taking place in-person at Birmingham's NEC from 14-16 September 2021, Subcon was co-located with The Engineer Expo and – new for 2021 – Manufacturing Management Show. The UK's leading subcontract manufacturing supply chain show came at a pivotal time as businesses of all sizes recover from the impacts of COVID-19 and adjust to operating outside the EU.

Subcon is the UK's premier subcontract manufacturing supply chain show. This is the must-attend event to meet and source new solutions from the very best of British manufacturing, and world-class suppliers from over 20 countries. Manufacturing professionals from all industry sectors attend Subcon to benchmark new and existing suppliers and develop new manufacturing partnerships.



The Engineer Expo is dedicated to providing UK engineering professionals with the latest in-house manufacturing and design solutions, alongside cutting-edge developments in advanced engineering technologies. Brought to you by the UK's leading B2B engineering publication, The Engineer, the event combines a 3 day programme of free-to-attend educational content with a wide selection of world-class suppliers and extensive networking opportunities.

The Manufacturing Management Show brings you everything you need to know about running a successful manufacturing site – from 5S and lean strategy deployment to finding the right forklift truck. The show features a high-level conference brought to you by Manufacturing Management magazine and an exhibition of market-leading suppliers for you to explore.

All three shows return this year from 7-9 June 2022 at Birmingham's NEC. This is our pick of the best exhibitors from last year's event, listed here in alphabetical order: ASH Technologies, Clear Quality, Dudley Associates, Keytracker & MMP ElectroVibe UK Limited. Further details can be found on this page.

www.subconshow.co.uk

Dudley Associates

Dudley Associates is owner-managed, was founded 30 years ago and still manufactures in Leicestershire as one of the UK's leading precision toolmaking and plastic injection-moulding specialists. With all elements executed in-house, there is no grey area for dispute between the toolmaker and moulder.

Tooling is made from aluminium or steel (P20 or fully hardened), according to application.

Components are produced from a wide variety of polymers including filled and unfilled ABS, acetals, acrylics, nylons, polycarbonates, polypropylenes, peek and ultems; these can be filled or unfilled. We also use highly-specialist materials with 'extreme' attributes in flame retardancy, electro-conductivity or operational temperature ranges.

We offer rapid prototype projects, along with low to high volume production needs, through our fully automated, high-speed, high precision CNC production cell and range of moulding machines from 35-300 tonnes.

Supporting our moulded components proposition, we



also offer inserting, drilling, tapping, ultrasonic welding, printing, assembly & packaging.

We service clients in most sectors, including oil & gas, medical, scientific, automotive, aerospace, defence, electronics, construction & safety, household & leisure. We are ISO9001 2015 accredited, with full traceability. Over half of our loyal and experienced workforce have been with us over for 5 years.

Contact
T +44 (0)1455 558825
www.dudleyassociates.com

Next gen AI inspection system

Leaders in design, build and support of the world's most advanced inspection technology solutions, ASH has created its Acumen AI, an artificial intelligence inspection system.

Acumen AI is an innovative system that uses next generation, deep learning video analysis to automatically identify, detect, classify, measure and count product defects. Maintaining a whole host of benefits and unique features, Acumen AI provides a significant increase in production efficiency and production throughput, guides assembly operators, integration with robots and cobots, creates data-driven reports, eliminates human error and reduces material waste. In addition, implementing Acumen AI will also reduce inspection costs and overheads and provides an advantageous efficient service, with the ability to



inspect critical parts in milliseconds. Acumen AI's data reports provide vital analysis to evidence and document data for continuous learning and

process improvement. Its reports provide highly detailed information, consisting of output images, failure statistics and custom data reports to improve statistical process control.

Acumen AI automates user's processes, which in turn ensures quality, increases efficiency, and removes subjectivity. Users can train Acumen AI to provide exactly what they want, when they need it and Acumen AI can be tuned to even the most complex programmes, to detect defects and meet user's specific needs.

For more information, please see the details below.

T +44 (0)1604 300001
M +44 (0)7592 523767
jamie.greatrix@ashvision.com
www.ashvision.com

Wide range of key & asset control systems and solutions

Managing keys and other assets vital to daily operations can pose many challenges to any organisation. In busy environments where multiple users are collecting and returning shared-use items, it is essential that assets can be easily tracked and controlled.

Keytracker offers a variety of intelligent management solutions which enable businesses to achieve greater visibility over its assets, with systems featuring advanced software that provide real-time data on all user transactions and activity. From small key lockers to large laptop locker systems, providing accountability over assets for organisations & a straightforward experience for users.

Matthew Hewson, facilities engineer at Siemens Lincoln, said, "The system has a clean and easy to use user interface. The ease of use is one of the key features of the systems and is vital to ensure a smooth integration with existing



systems and operations."

Hewson continues, "From the outset, Keytracker played an active role in specifying an asset management system that would suit our needs. Everything from identifying the correct size of cabinet prior to purchase to providing a range of RFID tags for us to try on our equipment after purchase was taken care of."

T 0121 559 9000
Sales@Keytracker.co.uk
www.Keytracker.com

Clear Quality

Clear Quality Limited is a national, leading training provider within the ISO sector, specialising in quality compliance, management, and continuous improvements. Our specialised tutors, lead auditors, support businesses with the creation, implementation, maintenance, and certification of quality management systems aligned to the BS EN standard requirements.

We provide internal training to upskill your workforce reducing inefficiencies and preventing defects to ensure right first time. Our training includes however, not limited to: 8D/root cause analysis, internal process audits, emergency first aid at work, information security, and BS EN standards awareness, etc, across a wide scope of service industries.

Clear Quality delivers the following accredited courses with up to 95% funding available to any scope of business:



- Team Leader and Supervisor Level 3
- Quality Practitioner Level 4
- Operations and Departmental Manager Level 5

These courses are structured online using the most modern techniques available. The training is split into manageable bite sized chunks including monthly lectures, assignments, and eLearning. Each delegate will be allocated a dedicated tutor who will be available round the clock to support them through their learning journey.

If you would like more information or wish to register your interest, please contact us at: training@clearquality.co.uk or contact us on 01709 918501.

MMP ElectroVibe UK Limited

MMP ElectroVibe UK Limited is a specialist in the metal polishing and surface finishing of stainless steel. We provide subcontract services, such as Mechanical Polishing, Electropolishing, Pickling, Passivation and Bead Blasting and are preferred suppliers to major manufacturers serving UK and Global markets. We hold ISO 9001:2015 and ISO 14001:2015 accreditations and are members of the British Stainless-Steel and the Surface Engineering Associations.

In 2021 we launched an on-site product line De-greasing and Passivation service, suitable for pharmaceutical, food and beverage products. We also have the capabilities of carrying out Oxygen Cleaning requirements for clients in need of this service.

With nearly 40 years of experience in the metal polishing industry, we can advise which services would best suit your product, providing a high quality, cost-effective solution



for all your surface finishing requirements. All works carried out are certificated in line with requested standards.

Contact us at: www.mmpelectrovibe.com for a free quotation.

Contact
T 01243 379204
enquiries@mmpelectrovibe.com

Print & Packaging News

Bell introduces Reused Ocean Plastic for 2022

One of the most exciting new developments in the plastic packaging industry is our ability to access and reprocess the post-consumer waste found on our beaches, riverbanks and along the perimeters of our oceans.

Unfortunately, plastic is now seen as a bad product – yet out of sight, beneath the surface of our oceans, there are millions of tons of other waste packaging made from glass, paperboard and metal that do not float and therefore cannot be seen.

Plastic has become a key focus on social media and in television documentaries, with politicians and supermarkets looking for ways to enhance their green credentials and promote a greener world.

There can be no excuse for rubbish being discarded into the environment and Bell are one of the first companies in Europe to endorse and support the collection and recycling of these materials.

In 2019 Bell launched Retran® – a polyester-

based material containing a minimum 70% recycled content. The credentials of this material are very high – pharmaceutical and food grade, with excellent clarity and full certification. The product has been hugely successful and nearly 80% of our customers around the world have switched to this exciting new product.

The 70% recycled content meets the new plastic packaging tax being introduced in April 2022, however Bell recognised the need to keep moving forward and in 2021 introduced Biojet®. In simple terms, this is Retran® with an additive that stimulates and accelerates the biodegrading process.

While both of these products



have been hugely successful, we recognised that even more needed to be done. Bell have worked throughout the pandemic, to identify reliable sources of plastic derived from the ocean. In simple terms this is 'Reused Ocean Plastic'.

The polymer used to produce the new packaging is being sourced from companies who organise local communities to collect plastic waste from beaches, riverbanks and ocean perimeters. Generally, these are communities who do not have the infrastructure for waste management but by paying local people to collect the plastic and deliver it to recycling facilities, the problem is reduced.

As we have all seen, there

are large quantities of plastic waste floating in the sea. If we can help to collect and reuse some of this waste, and turn it back into useful products, then we are taking a significant step forward towards a better global environment.

The new material has been extensively tested and meets the minimum strength requirements of our processes. It has excellent optical qualities and our testing to date reports that there has been no difference in the performance of the new material, compared to Retran®, Jetran® or Biojet® packaging.

Bell Packaging have started converting Reused Ocean Plastic for our forming and insert divisions, with tubing and boxes to follow in 2022.

Samples and more information are available from our offices in Luton.

T +44 (0)1582 459292
F +44 (0)1582 450181
info@bellpackaging.com
www.bellpackaging.com



You are what you eat. So eat 'Proper'.

Proper have moved into the fast growing snack bar category with a healthy alternative.

The two flavours, Salted Caramel and Hazelnut Praline, are vegan and gluten free, have no palm oil and use 'Proper' ingredients.

The launch is in response to demand from shoppers for healthier on-the-go snacking options as the nation moves towards more mindful snacking.

The packs are made from matt and metallised film with 30% recycled content, meaning they are exempt from the Plastic Tax.



The Plastic Tax is being introduced in April 2022 to "provide a clear economic incentive for businesses to use recycled material in the production of plastic packaging, which will create greater demand for this material and in turn stimulate increased levels of recycling and collection of plastic waste, diverting it away from landfill or incineration".

A full range of films with recycled content are available now.

T 01274 685566
sales@nationalflexible.net
www.nationalflexible.co.uk

New film offers 'improved thermal resistance and shrinkage properties'

Innovia Films has announced it is launching a new film in its Propafilm range of transparent speciality packaging films.

CHS is described as offering 'improved' thermal resistance and shrinkage properties compared to conventional polypropylene films. Innovia explained that the film has been designed to substitute traditional outer web films in laminates for applications such as pouches and lidding in various food markets.



Stephen Langstaff, Business Development Manager, Packaging, Innovia Films, said, "With CHS, we have developed a BOPP film with enhanced functionality which allows the film to be used in new application areas. We have been particularly successful with the film's performance as the outer film of laminate structures used in retort pouch applications. In this application area there are a lot of mixed material laminates used and because of the drive towards simplified structures it is important to offer alternatives to the traditional films used and CHS is a part of this solution.

"CHS will help our customer on the journey towards developing new structures based on mono-materials for better and more efficient recycling in the future."

CHS has been classified as Made for Recycling by Interseroh, which means it can be recycled in countries where the infrastructure exists to recycle polypropylene.

If you want more information or to trial this new film for your products, then contact: packaging@innoviafilms.com

Rayoface™ QB

New cavitated brilliant white gloss film for pressure sensitive label applications

Innovia films has recently developed a uniquely engineered uncoated cavitated BOPP base film, Rayoface™ QB designed for pressure sensitive labelling (PSL) applications. The film is available today in both 57 and 40 micron thicknesses and has a coating receptive surface on one side. This allows customers to add their own preferred topcoat.

QB is suitable for use within a wide range of market segments such as Household and Personal Care, Food and Beverage, and other consumer packaged goods sectors.

The 5-layer technology of the Innovia Films Polish line means QB is a high-performance product, that gives both superb economics and a high yield. With an extremely high opacity of 91%, Rayoface™ QB provides a brilliant white surface, which has excellent compatibility to top-coatings and PSL adhesives. Importantly, QB also has EU food contact compliance.

To help increase efficiencies by reducing changeover times, QB can be manufactured and shipped in large jumbo vertical rolls of 16,300 metres (QB57). This film has already undergone in-depth trialling and shown excellent results throughout the PSL supply chain and is available immediately.

To find out more, contact your local Innovia Films Sales Manager or email: labels@innoviafilms.com



BELL PACKAGING

REUSED OCEAN PLASTIC

Using waste plastic collected by local people from beaches and riverbanks that is then cleaned, broken down and reused to make new transparent packaging



For more information and samples contact us:



www.bellpackaging.com



+44 (0) 1582 459292

Where industry and innovation converge



Southern Manufacturing and Electronics is the most comprehensive annual industrial exhibition in the UK and a major pan-European showcase for new technology in machinery, production equipment, electronic production and assembly, tooling and components as well as subcontract services across an impressively wide range of industry.

A must-attend event for anyone involved in design, engineering production and procurement – the place to see all the latest in production hardware, components, consumables and technology serving a wide range of industries including Aerospace/Defence, Automotive, Electronics Assembly/Production, Industrial Machinery, Packaging/Handling/Logistics, Energy, Marine, Medical/PharmaBio, Mechanical Engineering and Metal Processing.

With its trademark diversity of suppliers, Southern Manufacturing and Electronics is an event that rises above any particular sector of the engineering industry. It is certainly an event important enough to attract big name manufacturers, but it's also an extremely accessible show for the rich eco-system of engineering SMEs operating across the UK, and increasingly, continental Europe too. As well as giving the show its unique character, it also makes it one of the most effective shows for addressing multiple sourcing issues in a very time-efficient way.

The event is located at Farnborough International Exhibition and Conference Centre from 8-10 February 2022, a brand new 20,000m² state-of-the-art venue, offering superb modern facilities, easy access and free onsite parking. Industrial Process News is delighted to spotlight just some of the many exhibitors at the show on this page and the next.

www.industrysouth.co.uk

AVMR



A Rubber Moulding one-stop shop helping 'one-man bands' to Global Brands with design and manufacturing expertise. From our Wiltshire-based factory, we have been designing and moulding rubber and bonded-rubber products for 35 years. Many of our customers are well known Medical, Aerospace, Industrial Product and Automotive companies who have been with us consistently for over 10 years, some for over 30.

While we help high-tech customers (eg. F1, Particle Accelerator Developers) push limits and innovate, we also helped a new customer deliver a 25-30% cost reduction. Their feedback was:

"Excellent customer service and technical ability with competitive pricing. AVMR have achieved everything asked of them with what is a very challenging moulding. Highly recommend for any rubber moulding requirements you have!"

We will be at February's Southern Manufacturing and Electronics Show at Farnborough, on **Stand M180**, and look forward to seeing you there.

T 01985 219032
www.AVMR.com



Introducing the GS4400

We are excited to announce our latest in product development, the GS4400. This GENSPEC pressure transmitter is designed to meet the operational requirements of demanding pressure measurement applications where good quality, fast delivery and low cost are of the highest priority.

Providing a half-duplex digital RS-485 output signal and 0-5V analog output, the GS4400 provides high stability and repeatability. It can suit a multitude of applications and with proprietary RS-485 protocol, can operate up to 32 devices on the same BUS.

The unique Silicon-on-Sapphire sensor technology provides outstanding performance and gives excellent stability over a wide temperature range.

The advanced sensor design consists of a piezoresistive silicon strain gauge circuit, which is epitaxially grown onto the surface of a sapphire diaphragm to form a single crystalline structure. The sapphire sensor is then molecularly bonded to a titanium alloy sub-diaphragm, enabling the sensor to endure higher over-pressures and providing superb corrosion resistance, virtually no hysteresis and excellent long-term stability.

Applications for the GS4400 include the continuous monitoring of hydraulic systems with oil, gas, water and other process liquids, industrial, medical and aerospace industries. Also ideal for the measurement and control of pressure in refrigeration, pneumatic, compressor, HVAC and engine monitoring systems.

Come see us at Southern Manufacturing & Electronics on **Stand B140**.

T +44 (0)1978 262255
sales@esi-tec.com
www.esi-tec.com





ESI Technology Limited

DIGITAL PRESSURE MEASUREMENT SOLUTIONS

Discover our newest range of digital pressure measurement solutions. With RS-485 output.



Our Range



GS4400

The General Purpose transmitter is designed to meet the needs of demanding industrial environments. Measuring pressure ranges up to 1,500 bar at a communication distance of up to 1,200m.



HP1400

The High Pressure transmitter measures pressure ranges up to 5,000 bar and is manufactured from a single piece of Titanium with no seals or welds. It is designed to meet highly demanding operational needs.



PR3930

The subsea pressure transmitter with RS-485 interface is suitable for ROV and deep sea test equipment. Measuring up to 1,500 bar pressure, the unit is submersible to 6,000m depth with a communication up to 1,200m.

About Us

ESI Technology Ltd specialises in the design and manufacture of pressure transducers and transmitters for the aerospace, defence, oil & gas, subsea, medical, automotive, marine, process and general industrial markets.

For more than 30 years we have served our customers with consistent product development, engineered solutions and excellent technical and sales support.

The incorporation of Silicon-on-Sapphire technology in our pressure sensors ensures

- Outstanding Performance
- High Accuracy
- Excellent stability over a wide temperature range



Come see us at Southern Manufacturing & Electronics on **Stand B140**.

Talk to us about your pressure measurement needs:

Call Now
(0)1978 262255

sales@esi-tec.com | www.esi-tec.com

Sensor House, Wrexham Technology Park, LL13 7YP

Our DNA is silicone

In this issue of Industrial Process News, we are pleased to announce Sateco XT AG as our Elastomer & Polymer Manufacturing Company of the Month.

The Sateco Group was established in 1999 by two Swiss entrepreneurs, Hanspeter Sauder and Alex Haeusler. In 2019, the Sateco Group founded a new daughter company, Sateco XT AG, dedicated to innovation and digitalisation of the company's product portfolio. Sateco XT is headquartered in Switzerland and is represented by the Group's international offices based in Europe, USA, China and Japan.

20 years ago Sateco made a name for itself for producing elastomeric electromechanical components for vehicle HMI and supplies to the global automotive industry. Sateco XT AG is a part of the Sateco Group but focuses more on developing and industrialising soft and flexible elastomeric sensors for applications such as haptic feedback, shape-changing surfaces, immersive stimulation, health monitoring and force sensing.

There are many benefits to Sateco products to which other companies cannot compete against. Daniel Haefliger, CEO Sateco XT explains, "Due to our distinct Swiss and Japanese-Chinese leadership culture, quality has always played a significant role at Sateco. We continuously innovate and rigorously test each new invention along automotive standards. By complementing our well-founded knowledge in elastomer processing with electronics and software skills we take a leap ahead into the digital world. We can make elastomers smart and combine them



with appropriate electronics to convert the materials characteristic into a comprehensive signal."

In recent innovations, Sateco XT AG has developed a unique elastomer sensor solution which can provide a sense of touch to machines, whether portable or stationary on the floor. The product is designed to intelligently work together with humans, Daniel explains further. "Ergonomics, wear comfort, and intuitive design simplify the interaction. The elastomer sensor works according to the capacitive operating principle and can continuously measure both touch and compressive force. It is soft and flexible, can be shaped three-dimensionally, and is suitable for various applications such as cobots,



exoskeletons and prosthetics. Used on the surface of a body structure the material feels similar to a human skin and offers a life-like soft and comfortable

human-machine interaction. The material's flexibility makes it particularly compliant to soft and fragile objects, helping in systems such as automated harvesting, and packing and labelling of fruits and vegetables."

The Silicone Force Sensor SXTSC1 helps to reduce overall manufacturing costs and combines two measurement functions in one component to save space and make precise predictions. Its high durability makes it robust and shock/impact resistant and any specific customised designs can be seamlessly structured into the body or the surface of the sensor.

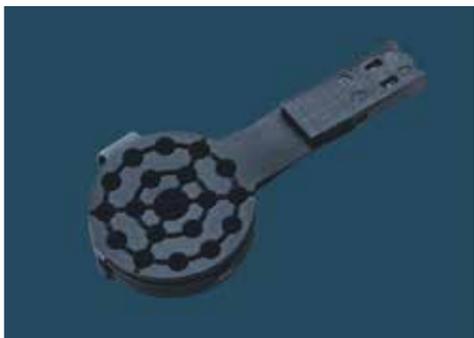
In 2019/2020 Sateco underwent a change of generation. Its co-founder Hanspeter Sauder retired from business operations in 2019 and stepped down from the administrative board in 2020.

In relation to this change, Sateco adapted the corporate organisation and relaunched its corporate design, shaping the company for an exciting future.

As for Sateco XT AG, it will continue to develop products and applications for new markets which will overall help diversify the trajectory of the entire business. Based on its high-quality standards and reliable supply track record the future looks very bright for Sateco XT AG.

For more information, see below.

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Hospital air disinfection system with 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.

For more information on the PanelPilotACE and our other products and services, come and see us at the Southern Manufacturing show, on Stand D160. We'd welcome the opportunity to speak to you about your next design project, have a chat with us to see how we can assist you.

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G-Series



Interface is pleased to announce the launch of the G-Series – a new, fully metric line of load cells and load buttons for industrial applications.

The demand for Interface products designed and manufactured in the International System of Units (SI), has been evident for several years. Interface's new Global Standard product line, known as the G Series, is designed for an international buyer and user.

Starting small, the series includes three load cell types – the load button, mini S-beam & threaded In-Line. With capacities ranging from 200 Newtons to 50kN. They are all fully stainless steel with an environmental protection rating of IP64 or better.

Each sensor is supplied with individual calibration certificates. So, even with their highly competitive price, you can be sure that like all Interface products, the G-Series are built to the exacting standards that Interface are world-renowned for.

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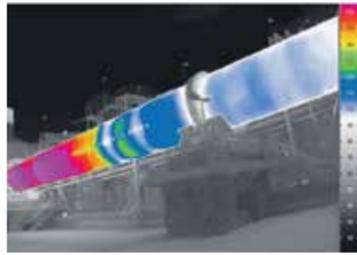
We've recently updated to our new online store to include a larger range of chromatography supplies making it more convenient for our customers to buy the parts they need. Our shop includes everything from pistons and seals to PCBs and PM rebuild kits. We also supply the industry from large stocks of OEM and alternative parts, along with being UK distributors for: Entech Instruments range, Bischoff columns, ERA TOC and Vici DBS gas generators.

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Infratec VarioCAM industrial thermal cameras



Stationary infrared cameras

The VarioCAM series are more suited for hand-held and/or mobile applications such as aerial thermography or preventive

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Plus, the modern thermography software family IRBIS® 3 developed in-house by InfraTec is the ideal tool for fast analysis of thermography measurement data.

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Find out more about where VarioCAM is being used in these latest plant inspection case studies at: www.infratec.co.uk/thermography/industries-applications/plant-inspection/

Quantum Design represents InfraTec in the UK and Ireland. Email Luke Nicholls at: luke@qd-uki.co.uk for more information.



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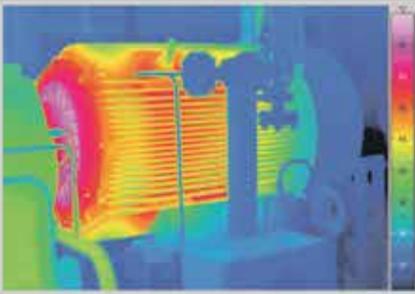
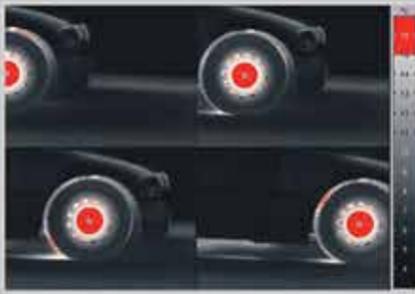
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The Guardtech Group

The Guardtech Group is a newly formed umbrella company – it heads up five distinct divisions that cater to the wide-ranging needs of clients whose operations take place in cleanrooms and controlled environments.

Among these five subsidiary firms is the recently acquired Sussex-based design & build outfit Cleanroom Solutions – who have a rich history of high-quality controlled environment builds. Guardtech Cleanrooms will now cater specifically for the modular cleanroom market, while Cleanroom Solutions will continue to specialise in larger turnkey construction projects.

CleanCube Mobile Cleanrooms will continue to provide portable solutions for business all over the world,

while ISOPOD Rapid Cleanrooms will offer a quicker, more flexible and cost-effective alternative for clients – including the option for ‘flat-pack’ delivery and self-assembly installation.

Completing the Group is another new addition – ISOBLOK Pre-Fab Cleanrooms – which will focus on pre-configured ‘plug and play’ cleanroom units and pods constructed off site.

The Guardtech Group will also continue to offer comprehensive furniture & equipment solutions and a range of Service contracts – including regular maintenance, validation and testing to ensure your controlled environment meets the relevant standards and continues to perform to its optimum capability.



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Further portfolio expansion delivers the new LAUDA 'Versafreeze' ultra-freezers, (deep-freeze storage down to -85°C), and higher power 'Integral' process circulators, (process control from -90 to 320°C with >25kW of cooling @20°C), with pressure overlay options to increase the working range of water/glycol up to 140°C.

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Analytical instrumentation and ground-breaking new technologies are ELODIZ's prime interest, and the company provides services related to innovation and R&D in this area of science.

The recently launched ELODIZ NEEGALA™ Raman system and the ELODIZ DUPLA Raman system are currently the only compact multi-laser devices that combine research-grade performance with streamlined user-experience. They consist of ultra-stable diode lasers and high-performance spectrometers, designed to operate in a variety of modes.

ELODIZ is also one of the partners on the EU-funded consortium CHARISMA – a technology leader for the revision and creation of European standards in Raman spectroscopy for industrial applications. The CHARISMA project is set to harmonise Raman spectroscopy for characterisation across the life cycle of a material, from product design and manufacture to lifetime performance and end-of-life stage.

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Efficient management calls for a 4-day working week

In this issue of Industrial Process News, we are pleased to announce Kirkham Engineering as our Petrochemical Valves Company of the Month.

Established in 1955, Kirkham Engineering has established itself a fine reputation as specialists in the production of repetition turned parts up to 65mm diameter on CNC Fixed Head and CNC Sliding Head machines.

As joint owners Barry Lynam and Alan Newton hold years of experience and expertise in the manufacturing and engineering industries. We caught up with Barry who explained the strategy behind Kirkham Engineering.

"We are one, we think of only a small number of companies in our field who specialise in the production of 'trim parts' for the various types of valves that are manufactured by our customers. There are plenty of companies who manufacture the larger parts of the valve like the bodies or manifolds but not many companies who make these smaller parts which incidentally go onto every valve especially in the exotic materials that we cut. This gives us a niche position and because quantities are sometimes small overseas completion is not interested in such small volumes. Another important factor is the quality of and certification for the materials we use, for eastern material is not allowed to be used, origin restrictions help us defend our market position and should also give us a strong base to expand from."

Kirkham Engineering specialise in sub-contract production of CNC precision turned parts for petrochemical valves such as needle, ball and double block and bleed valves. It also produces instrumentation products in stainless steels, nickel alloys and corrosion resistant alloys. "We cut the metals other companies run away from!" stated Barry.

In recent news, Kirkham Engineering has acquired three new state-of-the-art pieces of equipment. Citizen L32 and L20, both of which should have been demonstrated on stand at the MACH Expo 2020 at the NEC. Due to unforeseen circumstances the expo was postponed, so Kirkham Engineering relished the opportunity to purchase two machines from Citizen at demonstrator prices. "The L20 hadn't even been taken out of the wooden crate it was delivered in, so we jumped at the chance," said Barry.

The two Citizen machines are CNC sliding head turning centres – an L32-X 8 axis machine and an L20-VIII machine upgraded to 25mm. Both come fitted with Citizen's LFV (Low Frequency Vibration) system to improve cutting performance and swarf control on difficult materials.

The third machine is a Nakamura Tome AS200L-MYSF CNC Mill Turn Centre from the Engineering



Technology Group (ETG). This machine joins a similar acquisition that arrived in 2017.

Barry stated, "The AS200L-MYSF can be set-up extremely quickly giving us flexibility for small batch runs of fast turnaround parts. It responds far quicker than our more complex machines. It has a large work envelope in a small footprint and is extremely robust, which is perfect for heavy-duty milling and cutting. Supplied as a complete package by ETG, the AS200L-MYSF arrived with tooling, a Hydrafeed MSV-65 Bar Feed (plus BSU Bar Support Unit to give 1.5m capacity) and a swarf conveyor, making the machine ready-to-run on the day it arrived. The machine has a maximum turning diameter of 280mm with a maximum through-spindle bar diameter of 65mm. We have highly capable twin-spindle twin-turret machines but wanted something that had a smaller footprint and was faster to program and get up and running, the AS200L-MYSF fitted the bill. This machine is the latest generation machine with the new FANUC CNC and NT Machine Simulation and NT Collision Guard from Nakamura Tome. This allows us to rapidly program and simulate our components



and run the first part with confidence and speed."

Implementing an aggressive asset purchasing agreement to put new machines in, the three machines have added quality and precision to Kirkham Engineering's efficiency process. They also run aligned to the company's recent change of direction as it starts to buy new machinery rather than high-quality used machinery.

Business was hard for Kirkham Engineering throughout the constraints of COVID-19. Barry explained further, "COVID-19 caused us to become a lean mean fighting machine. All of our customers have been impacted by the pandemic, sales are at 60% of pre-pandemic levels. One of our top four customers did not survive the current difficult trading conditions and went into administration. We need to replace that top four customer. Towards the end of the furlough scheme we had 13 employees working and 13 employees furloughed. We kept faith with all of our employees while the furlough scheme was in operation, regrettably when the Government closed the furlough scheme, we had to make some redundancies because there was not enough work for all employees to return to. The situation caused us to take a good look at the business and streamline the operation to ensure we met the needs of the business going forward and protect the business."

Moving forward there will always be industry specific challenges to face and overcome, many businesses have found operations slow down. However, Barry is hopeful this could change, "Now we have acquired new machinery, hopefully our overseas competition will change. We are working really hard to reduce lead times to meet the tight requirements of some of



our customers who will not tolerate a lead time that is more than three weeks, four at most."

In a recent attempt to re-engage and motivate the workforce, Kirkham Engineering has announced it will operate under a new working week. Operating Monday to Thursday 7.30am to 5.45pm, allowing staff to enjoy a three-day weekend. Since this implementation, Barry has received noticeable praise from employees who feel more determined to work and the workplace efficiency has excelled. "The machines run better the longer they are on so productivity will improve as a result of this change. If we need to work overtime, we have ten hours on Friday to make use of and we have not violated our weekend."

Kirkham Engineering is a fine example of a well-oiled machine that adapts, and initiates change to ensure continual success. Putting the customer first in every situation, the company has also struck a fine balance of employee wellness within the workplace to ensure productivity and efficiency is of the highest quality. With a new website being built, Kirkham Engineering is hoping to reach new sectors and new customers in large and niche markets.

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technologies in automated manufacturing and process industry applications, with particular attention being paid to Industry 4.0 and the Industrial Internet of Things (IIoT).

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TÜV attestation for IP67 motors

Menzel Elektromotoren manufactures IP67 low and medium voltage squirrel-cage motors up to size 355. TÜV Süd has recently attested the dust- and waterproof construction according to protection class IP67 of an entire low voltage motor type series. The series extends to outputs of 400kW and voltages of 1,000V. In addition, TÜV Süd has attested Menzel's procedures for IP67 testing, which the manufacturer also offers for medium voltage motors from its own brand up to 11kV.

Menzel builds IP67 motors with minimal tolerances, waterproof encapsulated cast-iron casings and terminal boxes. The manufacturer holds stock in its main warehouse of all basic components for dust- and waterproof squirrel-cage motors and can therefore realise very short delivery times for standard designs of IP67 motors.

The motors are used worldwide, mainly in pump stations, flood-prone areas, food and drink industries and maritime applications. They can be fully immersed at standstill for a period of 24 hours without any ingress of water. Subsequently, when water has receded, the motors are ready to be switched on again directly. The manufacturer runs comprehensive acceptance tests on its motors in its in-house load test field before shipping. As part of the test spectrum, Menzel also offers



underwater tests for all induction motors with cage or slip ring rotors.

At the 2021 AEMT Awards of the Association of Electrical and Mechanical Trades, Menzel IP67 motors were voted the Product of the Year.

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G&P, one of the fastest growing companies in the UK

In this issue of Industrial Process News, we are pleased to announce G&P Group Holdings Ltd as our Company of the Year.



G&P Group Holdings Ltd (G&P), a quality management solutions provider was established in 1994 and has held its position at the forefront of the automotive, aerospace, and off-highway industries. As a global leader, G&P help OEMs and suppliers maintain and improve quality standards across the entire product life cycle.

The company's global success is a celebration of its overall ethos, values and vision, to which it has received glowing reviews from customers, across a plethora of industry sectors. From vehicle technicians, resident engineers, launch readiness, CT imaging, and many more highly skilled services; G&P is well equipped to help these companies maintain a high-quality performance and standard.

"Our vision is to be the strategic partner of choice, offering best in class quality management service and solutions, underpinned by outstanding management, technical skills and value-added technology. At the heart of this is our proprietary software system QTrak, which allows real-time quality performance analysis and identification of quality trends. The system provides an early warning of quality issues, a higher level of accuracy in inspection processes, standardised reporting processes and control throughout the product manufacturing lifecycle at a bespoke level that is tailored to individual requirements," stated Geoff Cousins, Chairman, G&P.

QTrak, G&P's unique web-based quality management IT system is accessible by its customers 24/7 and has



seen significant levels of internal investment. The system is a perfect example of data vs information.

"Data is a collection of unorganised facts while information is the structured and organised presentation of that data. QTrak assembles the data & provides the information. In doing so, customers can use up to the minute data to support their problem-solving process and identify quickly any risks to continuity of production from stock losses, including at sister sites which might face similar quality issues. In combination with G&P's supplier quality engineers and inspection teams, QTrak is the backbone to our award-winning Quality Excellence Model, where thousands of problems have been successfully investigated, contained and eradicated," said Geoff. G&P has a mission to build trusted, long-term partnerships with its customers, that always exceed



their expectations, through the company's flexible approach, integrity and confidentiality. Its world class leading processes are recognised by manufacturers globally as being fundamental in increasing efficiency and reducing both cost and waste.

To highlight the impact G&P has made, over the years the company has been the proud winners of numerous awards and accolades, including the Queen's Award for Enterprise: Innovation, the UK's highest business accolade, in honour of its Quality Excellence Model which ensures root cause identification and rectification of quality issues.

Boasting a remarkably successful first few years in business, the last 12 months has been testing for the company. Geoff explained, "The last 12 months have been disruptive for G&P but we have adapted our services and working practices to take advantage of short-term opportunities while enhancing our customer account management and support.

"By offering a totally flexible and bespoke service, G&P's support has been invaluable to our customers as working practices were disrupted through social distancing, travel restrictions, interruptions to supply chains, remote working and different shift patterns. G&P itself has access to a range of highly skilled personnel, including supplier development engineers, resident engineers, quality inspectors and vehicle technicians who are deployed on-site providing quick and decisive action to any quality issues, and who can be deployed rapidly to cover any shortfall in personnel."

COVID-19 restrictions were not the only hurdle G&P had to navigate, however, through such unprecedented times, G&P has proven its best-in-class solutions and thorough business strategy still prevails.

"The auto sector has shown remarkable resilience in bouncing back quickly from COVID-19, only to be hit with the microchip and semiconductor shortages. This has created a lot of uncertainty around ongoing production levels and resource requirements. The proactive nature of our approach to disruption together with strong progress in our diversification strategy, both in sector and higher engineering skills has led to a 25% increase in sales over 2020 and a 5% increase on pre-COVID-19 levels," stated Geoff.

Looking ahead, G&P has put both short and long-term goals in place in order to keep reaching set targets. "Even before the pandemic, we recognised the long-term need to diversify into other manufacturing sectors. This is possible as many of the services G&P provides, such as supplier management and quality audits, inspection, containment and rework, finished product acceptance, measurement and scanning services, are transferable to other



Geoff Cousins, Chairman, G&P, accepts the Company of the Year award



industries. This will be executed alongside growing our existing business primarily through integration with current customers to provide them with additional services," added Geoff.

G&P is increasingly seen as a strategic partner, often with sole responsibility for the management of inbound component quality and the response to quality issues. The ability to adapt and be flexible within the industry is key to ensuring future success and longevity.

In recent changes, Geoff explained, "following a strategic review and consequent restructure, which significantly improved the capability of the organisation, which is underpinned by a proactive customer centric culture, G&P is now entering an ambitious growth phase. This includes developing the breadth and depth of our core sectors and expansion into adjacent services, while also promoting the added value of higher skilled technicians and engineers."

Its employees will always remain at the heart of G&P as it continues working to the highest standards of professionalism and discretion. With the company's values embedded into its operations, G&P ensures it provides the highest quality service on every level, and G&P's passion is reflected through its commitment to the development and safety of its people.

In closing, we asked Geoff how G&P felt receiving the award. "Winning this Company of the Year Award is recognition of the high standards that G&P sets itself. It is also further evidence, and a great reflection, of G&P's personnel who provide a first-class level of service to customers on a daily basis."

For more information, see below.

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