

INDUSTRY UPDATE

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Legislation is set to change in Wales to ensure rented properties are fit for human habitation

It has recently been announced that the legislation, Renting Homes (Wales) Act 2016 will change, effective from 15th July 2022. The new regulations are designed to ensure that social and private rented properties in Wales are fit for human habitation, including the provision of an adequate Fire and Carbon Monoxide alarm system.

Section 91 of the Act places an obligation on the landlord to ensure that their property is fit for human habitation from the beginning of the tenancy and throughout. The requirements of the legislation are within The Renting Homes (Fitness for Human Habitation) (Wales) Regulations 2022.

The updates significantly affect the requirements for Fire and Carbon Monoxide alarms within rental properties. Under The Renting Homes (Fitness for Human Habitation) (Wales) Regulations 2022, landlords in Wales must ensure that there is a working Smoke alarm on every storey of a property, e.g. hallway and landing; in addition, all Smoke alarms must be mains powered and interconnected with other Smoke alarms in the property. Landlords should refer to BS 5839-6:2013 for the recommended installation of the required Smoke alarms, however Aico would encourage landlords to reference BS 5839-6:2019+A1:2020. The manufacturer's replacement date should also be noted to ensure the alarms remain fully operational.

Additional Smoke alarms can be installed in the property at the landlord's discretion, for example, a larger property would benefit from additional Smoke alarms for greater protection and coverage. A landlord may also consider installing a Heat alarm in the kitchen.



The Renting Homes (Fitness for Human Habitation) (Wales) Regulations 2022 also requires landlords to ensure that a Carbon Monoxide alarm is present in any room which has a gas, oil or solid fuel burning appliance installed.

Aico's National Technical Manager, Andy Speake, comments "The updated legislation is a great step towards ensuring there is adequate fire safety in rented properties. The enforcement of The Renting Homes (Fitness for Human Habitation) (Wales) Regulations 2022 is a positive move in the right direction and will ensure greater levels of protection for tenants in Wales."

In total, there are 29 matters and circumstances set out in the Act which determine whether a rental property is fit for human habitation, examples including damp and mould growth, fire, Carbon Monoxide, excess cold and heat and electrical hazards.

For more information on the legislation, visit: <https://gov.wales/fitness-homes-human-habitation-guidance-landlords.html#section-86350>

Engel high-viz workwear helps save the environment

A brand-new range of high visibility protective safety clothing with 50% of the material made from recycled plastic bottles has been introduced by workwear manufacturer Engel Workwear.

Called 'Safety Light', each item of clothing can be verified to consist of regenerated polyester fibres ultimately spun from a specific number of plastic bottles to make up 50% of its content.

This is combined with 40% cotton and 10% standard polyester (245g/m²) to produce a cool-to-wear, durable fabric. By using regenerated polyester which is equally as efficient as new, there are also significant consumption savings on energy, water and CO₂.

The Danish firm has worked closely with Unifi, one of the world's most advanced recycling centres which transforms the recycled bottles into a polyester yarn called 'REPREVE®'.

The smart, mix-and-match range



includes boiler suits (containing 37 plastic bottles), work-jackets (20 bottles), trousers (19 bottles) with Cordura kneepad pockets and elasticated waistband, bib-overalls (23 bottles) and shorts (14 bottles).

All have many practical pockets and comfort-design features. There is also a specific selection especially for women called 'Ladies Light', all with the same benefits.

For more information, contact Gareth Bladen

T +44 (0)7759 520034
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From 14th February we are pleased to announce that Bond It have acquired the sole distribution rights for the market leading Geo-Fix® All Weather and Geo-Fix® Original Paving Jointing Compounds.

When Geo-Fix Original was first brought to market 25 years ago, the paving industry was a completely different landscape compared to today. With traditional cementitious jointing products causing huge problems for Local Authorities and contractors, it soon became clear that an alternative solution was required.

After listening to the needs of the paving industry, Geo-Fix® developed a new technology using sand polymers to create Geo-Fix® Original brush-in jointing compound – a truly original product that revolutionised traditional jointing methods. In 2013, the range was enhanced to include Geo-Fix® All Weather jointing compound, a superior brush-in sand that can be used in all weathers, and now offer a selection of beautiful coloured sands to complement all designs and tastes.

Geo-Fix® is a ready mixed jointing that is simply brushed and compacted in to joints with minimal effort. Available in 2 versions, Original in 20kg buckets in Buff and Grey and All Weather in 14kg buckets in Stone, Mid Grey, Anthracite, Graphite and Slate Grey.

Bond It are a British manufacturer with 20 years' experience manufacturing and supplying the construction, building and DIY markets.

John Andrews Director of Geo-Fix® stated; "We are delighted to be working with Bond It to distribute the Geo-Fix® range, the team are committed to providing exceptional products and service and I am confident together we will produce even greater opportunities for our customers."

Dean Morgan Managing Director of Bond It says; "Geo-Fix® jointing compounds are recognised brand leaders and will be a perfect fit alongside our extensive Drive Alive range of products.

In addition, we are committed to ensure a seamless transition and service for all customers both existing and new and feel this is a huge opportunity for Bond It to penetrate into new markets."

All Geo-Fix® products will all be available through Bond It through an authorised network of approved merchants and stockists throughout the UK and Ireland.

Contact 01422 315300 or email sales@bonditgroup.com for more information.

Megaman® launches its latest high bay offering – GEO 2

Global lighting manufacturer Megaman® has expanded its impressive product portfolio with GEO 2, a new and innovative integrated LED high bay lighting system. GEO 2, which can be controlled remotely for ultimate ease of use, provides a durable and energy efficient lighting solution, ideal for all indoor commercial high ceiling areas including halls, warehouses, retail and exhibitions.



The latest adaptable fixture from Megaman, the new GEO 2 has been designed with a passive cooling structure and lightweight graphene housing. This ensures it cannot overheat and increases

the product's energy efficiency. GEO 2 also has an impressive L70B50 50,000hrs usage at Ta40°C and is highly vandal resistant, with a rating of IK08, as well as an IP65 rating for dust and water resistance.

Furthermore, the cost-effective GEO 2 has a high luminous efficacy of 165 lm/W, allowing for significant energy savings in comparison with traditional high bays. Flicker free, the product maintains a consistent output.

GEO 2 is also available with a motion sensor remote control, affording customers the versatility and flexibility to gain instant control over their lighting and energy use. Other optional accessories include a 1-10V dimming module, IP65 rated dimming wire and a motion sensor kit.

www.megamanuk.com





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www.drallim.com

ACCREDITATIONS: BS EN ISO 9001:2015 | BS EN ISO 14001:2015 | BS EN ISO 45001:2018 | AS9100D: 2016

BEC Distribution Limited provides unmatched lead times



In this issue of Industry Update, we have chosen BEC Distribution Limited for our Editor's Recommendation. BEC Distribution Limited is a franchised distributor

of High Current Power Inductors, Power Inductors, Chip Inductors, Common Mode Choke, Line Filter, Transformers, Resistors, Terminal Blocks, RJ45 connectors and LAN Magnetics.

The company offers premium drop-in alternatives for TOKO/MURATA, Sumida, Coilcraft, Cooper, Bourns, Vishay and many more. With advanced knowledge and technical information of its franchised product range, BEC Distribution Limited has created a reputation built on reliability, efficiency and excellence for its customers.

From its location in Buckinghamshire, BEC Distribution Limited ships all over the world. The company has

developed significantly since its inception and the appointment of John Dodds as Sales Director, who has developed the business to serve the electronic components needs of its customers through cost effective prices, enviably quick response times and excellent customer service levels. BEC Distribution Limited is able to offer a tailored solution to meet each individual client's needs, while also offering the quickest lead times on the market.

A main focus for BEC Distribution Limited is its diverse offering of discontinued inductors for end-of-line (EOL) products. After noticing a gap in the market for its clients, BEC Distribution Limited saw that its clients



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within the industry, were left waiting up to 30 weeks for some manufacturers to deliver their desired parts. Determined to provide a solution, BEC Distribution Limited now offers 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 its customers EOL passive components to help buyers and engineers in the Electronic Components industry facing EOL issues. In addition, 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.

One of the biggest issues that most engineers and buyers face, is the discontinuation of products from manufacturers after 5-10 years, this creates an issue for industries such as aerospace, medical, surveillance and defence, where they require products that far exceed a minimum of 10 years.



Committed to solving these issues, BEC Distribution Limited provides the solution for engineers and buyers alike, with the ability to shorten lead times for these industries on many products. Furthermore, through the company's strong stance on customer satisfaction, if a required component is out of stock, BEC Distribution Limited's knowledgeable and experienced customer service team utilise their 'outside the box' thinking and product iteration, to track down and source the nearest matching alternative, ensuring that all clients projects run smoothly and efficiently.

A main advantageous benefit of BEC Distribution Limited's services is its flexible approach to manufacturing and its swift distribution, which enables lead times to be cut in half. BEC Distribution Limited offers a leaner approach to manufacturing, by using its extensive industry experience and knowledge, the company has been able to position itself into a very niche market, offering alternative products with reduce lead times and save on overall expenditure.

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

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ACCREDITATIONS: BS EN ISO 9001:2015 | BS EN ISO 14001:2015 | BS EN ISO 45001:2018 | AS9100D: 2016

PumpMatic Pump Stations



Housing specifiers and builders are discovering that, by utilizing the services of a specialist like Pump Technology Ltd., selecting the correct system for the job becomes fast and relatively simple. The pump station advisory team is headed up by the company's own in-house drainage and pump consultant Steve Murphy.

Fast, accurate specification:

The engineering team at Pump Technology Ltd. can specify the ideal tank for each application taking into account volume, size (diameter and depth), position of inlet or inlets and outlet, pumps and control panels. This means that specifiers and users are offered the best technical and commercial solution either immediately, or in more complex cases, within a few hours.

PumpMatic, the "flexible" range:

The company's extensive PumpMatic range of modular tanks is suitable for many commercial applications such as schools, sport centers and many other such installations. They are also ideal for garden offices, extensions, single and multiple houses. The manufacturing team maintain a core stock of tanks and equipment which can then be rapidly customized to suit individual site requirements at short notice and as needed.

The cost of poor equipment selection:

Pump Technology have learnt from years of experience that ultimately the reliable operation of a pumping station always starts with the correct equipment specification. It is extremely costly and difficult to put right mistakes after the installation of a below ground pumping station. Poor equipment selection can often lead to excessive, ongoing pump blockages, costly servicing and just the sheer hell of compromised usage, not to mention challenges with building standards.

Commissioning and Maintenance:

All Pump Technology Ltd. equipment is fully supported by commissioning and maintenance teams across the country. This provides specifiers, installers and users with an end-to-end service to ensure ongoing peace of mind and reliability.

For more information or assistance with sizing a pumping station for sewage, or drainage please contact the PumpMatic team.

T 0118 9821 555
www.pumptechnology.co.uk



DF Precision Machinery



Rotherham-based Go Tools Ltd continue to grow and invest in high quality machine tools and have recently invested in another two Okamoto ACC450AV precision surface and profile grinding machines from DF Precision Machinery.

Technical director Steven Barrowcliff says: "After installation and operator training, the first two Okamoto machines soon began to make a significant contribution to our surface and profile grinding work. In addition to high precision and surface finish, their ease of use and speed has resulted in the machines becoming extremely popular with our grinding staff".

"High-standards of surface and profile grinding are critical to the quality of the tools that we manufacture, and these attributes are exactly what our Okamoto machines deliver. As we've been so impressed with our new Okamoto grinders, to help satisfy ever growing demand for our tools, we have since installed two further machines."

The Okamoto ACC450AV provides a table capacity of 450 mm X 150mm and allows fast and simple change overs. Minimum feeds of 0.001 mm on two axes with a high-visibility digital displays enables easy monitoring of all adjustments. A simple variable speed control to the grinding wheel enables it to meet the material and surface-finish requirements of each workpiece.

sales@dfpmach.com
www.dfpmach.com

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 dustproof 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 1000V. In addition, TÜV Süd has attested Menzel's procedures for IP67 testing, which the manufacturer also offers for its medium-voltage motors up to 11kV. Menzel builds IP67 motors with minimal tolerances, waterproof encapsulated cast-iron casings and terminal boxes. The German manufacturer stocks all basic components for dustproof and waterproof squirrel-cage motors and can realize 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.

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

Meet Menzel at the Drives & Controls Exhibition in Birmingham, 5 – 7 April, 2022.

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Ranpak's Curbside recyclable WrapPak® Cold Chain solutions provide thermal protection for up to 48 hours for e-commerce food delivery

Looking for a better Cold Chain solution for shipping of food products? Consider paper-based Cold Chain packing materials to reduce or eliminate plastic packaging that is hard to recycle, made from fossil fuels and takes hundreds of years to biodegrade. This is increasingly less acceptable to consumers. You may be surprised to learn how effective paper-based thermal protection products are whilst at the same time offering many cost and sustainability advantages.

Do you have a warehouse full of existing thermal protection solutions like EPS boxes and other plastic-based thermal protection solutions, or even wool- or cotton-based solutions or denim liners, are certainly an effective thermal protection approach, they also take up a great deal of space, both in your warehouse and in the

product shipping process. Plus, their end-of-life disposal comes with many sustainability issues. Paper-based thermal protection is a so much better choice for products requiring thermal protection for up to 48 hours. Convert your operation to this more sustainable and cost-effective choice with an on-demand system that produces paper pads on request. Get a custom box including Ranpak's thermal solutions with the most sustainable Recycold cool packs in combination with the thermal paper packaging.

For more information visit: [Keep it cool | Ranpak](https://www.ranpak.com) or contact and via email: eu.info@ranpak.com

<https://www.ranpak.com>



Recyclable pouches join the family of McCoos



How can a recyclable pouch possibly do justice to the Steven Brown Art's - the McCoos?

When Deans of Huntly wanted to launch their range of Cookies in a recyclable pouch they approached National Flexible for ideas. They had the designs which are incredible, incorporating Steven Brown Art's McCoos but were worried that a recyclable laminated pouch wouldn't do the designs justice as some recyclable materials can have a 'dull' finish similar to polyethylene.

National Flexible had already had extensive experience of recyclable films and pouches and were able to help. The pouches needed to have intensity of colour not only in the main design but also in the photographs of the small packs on the front.

"We needn't have worried. National Flexible understood exactly what we wanted to achieve. We are extremely happy with the pouches they look amazing!" Michael, Deans of Huntly.

T 01274 685 566
sales@nationalflexible.net
www.nationalflexible.co.uk

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.

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CHEMUK 2022: Where the UK's chemical industries meet

The organisers of the CHEMUK show are delighted to reopen its doors this April on the 11th & 12th May 2022 for CHEMUK 2022. It is the UK's only trade show dedicated to bringing together multi-layer chemicals/chemical product development, specification and processing/manufacturing communities with crucial supply chain supplier groups.

Welcoming over 2,400 visitors, over 350 exhibiting companies and a further 1,000 from across exhibiting teams all who graced the 10,000m² expo floor creating a combined attendance of over 3,500.

Taking place over two days, the event will showcase supply chain sourcing, business networking, intelligence gathering, best practice and strategy development experience and an



outstanding speaker programme featuring over 40 hours of content from guest speakers and panelists. These experts will be delivering topics that include sustainability/net-zero, post-Brexit and more.

This is our pick of the best exhibitors that will be exhibiting in this years show.

Further details can be found on this page and the next three pages.

www.chemicalukexpo.com

Reynolds Training Services

At Reynolds Training Services, our mission is to create a recognised career pathway for the Bulk Storage Operations sector, achieving this through a 'Blended Learning' approach, not only providing the knowledge, skills and experience, but also ensuring personnel learn how to learn throughout their work life.

Founded by John Reynolds in 2009, with over 35 years working within Bulk Liquid Operations, 'Reynolds' has developed training and competence assurance programmes relevant to the sector, from Apprenticeships, through to upskilling personnel, covering all aspects of operational including all modes of import and export operations as well as.

Training courses are underpinned by a range of National and Internationally recognised awarding bodies including NEBOSH, IOSH, and GQA. These are also joined by a wealth of bespoke development, ensuring that course content reflects your own policies and procedures.



Reynolds are, in conjunction with CATCH, founding members of the National Centre for Process and Manufacturing – a state of the art and UK leading Fully Operational Tank Farm and Process Plant Training Facility, offering 'real world' experience, giving us the ability to train and develop technical skills in Control Room, Process, Maintenance and Field Operations in a fully-emulated Process Operations Environment. Our cutting-edge equipment and controls align directly with industries within the UK and internationally.

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Visit us on Stand B6 and lets chat about how we might be able to help with your training needs. Reynolds Training Services: Training for the Process Industries and More ...

www.reynoldstraining.com

Assentech reduced the GWP of a 12" breather vent from 161 tonnes to 185kg

Assentech has been developing techniques to measure and reduce emissions from tank farms for over a decade. The key is keeping volatile compounds inside the tanks but allowing them to breathe when required such as filling/emptying and fluctuations in temperature. At all other times a breather valve should remain closed with minimal leakage.

These valves have immense flow capacity so if not functioning or set correctly can leak hundreds of tons of invisible GWP emissions along with company profits into the atmosphere.

"We have a deep understanding of how breather vents work and how to optimise their performance. As they are modulating pressure

relief devices they can begin to open from as low as 75% of their set point. As many digesters run at 90% design pressure this overlap represents a large potential for mis-applied devices to leak excessively at standard operating pressures," says Cox.

Two international standards ISO28300 and API2000 specify maximum leak rates for all production vents, ie. 0.014m³/h for vents up to 6". The shame is that only 2 out of the 20 worldwide manufacturers test to this standard.

Unfortunately, the majority of breather valves that are installed at facilities do not seal and will allow huge volumes of vapour to release into the atmosphere. We are the only company which has



the technology, knowledge and service capability to keep you safe, compliant and profitable.

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CPL Activated Carbons

CPL Activated Carbons is a leading UK-based manufacturer and supplier of activated carbon filtration products and related services, including a wide range of Clean-Flo® mobile carbon filters, engineered in-house by our subsidiary CPL Icon. Wherever possible, spent activated carbon can be recycled via our Regen-Sys® process at our thermal reactivation centre at Immingham, where we have separate facilities for handling 'amber list' spent carbons (from chemicals, VOC, odour control, wastewater, biogas etc) and 'green list' carbon (from food and drinking water processes).

Reactivating spent carbons in this way offers a significant saving in terms of cost and carbon footprint. We have been supplying activated carbons for over 30 years, and our team of experienced and friendly experts is ready to help chemicals and pharmaceuticals producers solve their most challenging purification requirements, including wastewater treatment, VOC abatement and chemical purification. We are proud to have the latest ISO9001:2015 and ISO14001:2015 accreditations, as well as UK REACH registration. Check out our website or YouTube channel for more information about our wide range of products and services. We are "The Active Force in Carbon & Service."

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BASA

With its history dating back to its inception in 1983, BASA has excelled in its mission to become an umbrella organisation for UK adhesives and sealants manufacturers. We focus

on technical and legislative aspects and on promoting awareness of the industry and technology by providing guidance on technical and compliance issues and creating a variety of networking opportunities for members, holding events using virtual platforms since March 2020.

BASA is the voice of the adhesives and sealants industry's and is an information source for manufacturers and suppliers. The association advocates on behalf of its members and liaises with Government regarding legislation and keeps Members well informed of UK, EU and International proposals and initiatives.

With the growing concerns around the environment and using sustainable products and raw materials, BASA is dedicated to helping its members minimise harmful chemical usage and educate the public on the industry's drive for safer products. BASA members work hard to formulate innovative products that positively contribute to the sustainability agenda whilst maintaining performance and durability.

BASA hopes to continue to reach more potential members, looking at ways to support its manufacturers post Brexit and help them to navigate potential new legislation and trade rules.

www.basa.uk.com



Visit the website to find out about the costs and benefits of joining the Association.

STRONGER BONDS MAKE BETTER BUSINESS

'BASA's members support efforts to improve product efficiency and circularity to help create a more sustainable society, promoting the concepts of energy saving, material efficiency, repairability, durability and recycling.'

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As part of the Schoeller Allibert Group, ROPAC® has been based in Romont since 1968. The plant in Switzerland

is well-known for the production of UN containers under the brand name ROPAC® and has been awarded with a Swiss and World Star Packaging Award for the design of its 5L UN liquid pack.

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- ▼ SIEF Coordination / Consortia Management
- ▼ Support with preparation of technical dossiers
- ▼ Lead Registrant services
- ▼ Chemical Safety Reports (CSR)
- ▼ Downstream User Import Notification (DUIN)
- ▼ Study monitoring
- ▼ New Registration of an Existing Substance (NRES)
- ▼ UK REACH account management
- ▼ Only Representative services
- ▼ SIEF Coordination / Consortia Management
- ▼ SIEF Coordination / Consortia Management

CSI also offers support for EU REACH through our Dublin office. Although EU REACH has been in force for nearly 15 years, Brexit changed the roles and supply chains of many UK companies exporting to the EU. CSI can assist in all aspects of EU REACH requirements.

Support with other Regulations/Industries

- ▼ Biocides - GB Biocidal Product Regulation (GB BPR)
- ▼ Plant Protection Products (PPP)
- ▼ GB Classification, Labelling and Packaging (GB CLP)

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CHEMUK2022 Stand M49



Diagnostic Tools That Will Revolutionise Industrial Network Maintenance

Preventing unplanned stoppages and simplifying troubleshooting is high on the agenda for anyone maintaining an industrial network. Procentec, the global leader in diagnostic and monitoring solutions, will be showcasing its practical tools to simplify industrial maintenance and prevent costly downtime for users of PROFIBUS, PROFINET, EtherNet/IP and EtherCAT networks.



"These solutions will cut down on unnecessary engineer call-outs, reduce the time you spend finding errors, and give you clear advice on how to troubleshoot," says Pieter Barendrecht, CEO of Procentec. "They also offer a much more connected approach to fault detection and diagnosis. They will pay for themselves in no time at all."

Upgrading diagnostics with the help of AI One of the highlights is undoubtedly SNAP Analysis. This unique, self-learning feature analyses the live data of an industrial network. It then gives an instant written diagnosis of a fault's most likely cause, removing the need to manually interpret complicated oscilloscope images and messages.

SNAP also uses a predictive algorithm to recognise and learn from data patterns, enabling it to predict common network faults. It takes all the guesswork out of troubleshooting device issues and enables preventative measures to be taken.

For more information on Procentec's wide range of solutions, visit their experts at stand C30

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Steel Dynamics Ltd, now part of the Steel Dynamics Group, is the UK's leading Stockholder and Processor of Stainless Steel strategically located throughout the UK, supplying a range of mainstream profiles to complex supply chain solutions.

We stock only premium quality materials from World Class EU mills. Our extensive stock range boasts over 5,000 tonnes of various Stainless Steel grades in thicknesses ranging from 0.5mm – 150mm. We are adequately stocked to support UK manufacturing during recent and uncertain economic climates.

Due to ongoing substantial growth, Steel Dynamics Ltd has also invested heavily in the latest, state-of-the-art equipment to develop our cutting, milling, and pressing capabilities. Our most recent investments include the HAAS VF4 Super-Speed, Timesaver 22 Series and a completely bespoke 14m x 4m, dual gantry multi-head system Water Jet cutting machine!

Demonstrating our wealth of expertise with over 200 years' combined experience, Steel Dynamics Ltd purpose is to relentlessly work together with its customers to reduce their costs and help UK Manufacturing flourish. We believe in nurturing our relationships with all our customers thus, TSC is aimed at relieving the stress of managing material, identifying processing methods, handling and delivery from our customers. Our Total Service Concept is offered free with no up-front cost and offers a range of unbeatable benefits!

For more information on how Steel Dynamics Ltd can reduce your metal consumption, please visit stand F19 at the CHEM UK show – we look forward to meeting you there!

For all enquiries, please contact Lee Nicklin Business, Development Manager:
T +44 (0)1204 368600
lnicklin@steel-dynamics.co.uk
www.steel-dynamics.co.uk

sera Technology



As a worldwide leader in dosing technology, sera Technology is a system provider of high-quality products and services for the dosing and feeding of chemicals and fluids. Indeed, with 75 years of experience, sera Technology is renowned for its excellent customer service and leading German engineering, offering some of the most robust pumps available on the market.

Safely convey & transfer with our new airPUMP, an Air operated diaphragm pump with an operating range up to max. 8bar / 900 L/min.

sera air operated diaphragm pumps are cost-effective, leakage-free positive displacement pumps. They have two diaphragms linked by a connecting rod. Compressed air is supplied alternately to the air chambers behind the diaphragms through an air control valve, so that one diaphragm is pushed forward while the other is pulled back (pressure/suction stroke). The special design of the air control valve ensures that the pumps can always be started up safely and there are no inconvenient downtimes. The valve balls open and close with the stroke rhythm of the diaphragms.

Stand D3

www.sera-web.com

Suurmond UK Limited

Suurmond UK Limited recently attended the ChemUK event at the NEC in Birmingham. A main feature of our booth was our NEW suurGLASS unit. suurGLASS is a standardised, universal reactor system for process development, chemical synthesis, stirring, dissolving, mixing and extraction.

The custom design of the support frame means that the vessel can be changed easily while the top cover remains secure mounted to the support.

The quick action clamp can be operated with one hand allowing the user to support the vessel for easy and safe vessel changes. With our system the top cover and all the accessories connected to it can remain in place.

Because our system is designed specifically for basic chemistry, we are able to offer a highly engineered solution at a lower price point than might be expected.

Basic specification:

- Volume reactor vessel : 1 - 5 litres, using the same cover plate
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LET'S TALK!

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These core business services include: the design, fabrication, installation and maintenance of custom pressure vessels, storage tanks, silos, process pipework, structural steelwork and precision CNC machining. We also manufacture a range of chemical and polymer storage and dosing equipment used in the treatment of water, wastewater and trade effluent. Complemented by the groups Scaffolding and Pump and Gearbox companies, we work together to deliver turn-key project solutions in the Chemical, Pharmaceutical and Water Industries, to name but a few.

With a workforce in excess of 150 people, and an impressive 60,000ft modern manufacturing facility Richard Alan is able to take your requirement all the way from initial concept to installation and long-term service with the assurance of the highest-quality of produce and service throughout.

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Blended

At Blended, we have been supplying specialist chemicals and gases for almost 20 years. The company prides itself on offering the optimal 'blend' of speciality chemical expertise, exceptional service, and positive attitude that customers can rely on.

From Anhydrous Ammonia and Carbon dioxide to a line a glycol-based heat transfer fluids, a team of industry experts and a full-service testing laboratory, Blended are the ideal partner to supply your chemicals and gases. Over the years, we have developed strong relationships with our clients and

endeavour to provide the best, ongoing service with the food and drink industry, heating, and cooling sector and even wastewater treatment plants. Whatever the challenge, we have the equipment, resources, and people to meet your project needs.

Coolblend, by Blended, is a complete range of high-performance heat transfer fluids that can be used in a wide variety of applications requiring the need for glycol based heating and cooling liquids. Our new line of cleanings solutions: Serviceblend includes pre-cleaner, biocide, and online cleaner as a highly effective



biocidal flush. This product works optimally with our glycol-based products but also as a stand-alone product for servicing and maintenance of equipment.

Call our team on 01652 680 555 to find out more.

Apex Pumps



Apex Pumps has been producing high specification centrifugal pumps since 1988, operating both within the UK and worldwide on installations where efficiency and reliability are of prime importance, and we have earned an enviable reputation for the quality and endurance of our products. Apex is able to produce bespoke centrifugal pumps to customers' requirements on short lead times. The unique capability within the UK of having a foundry onsite and utilising UK sourced material were possible. The company has been built on its responsiveness to enquiries, customer's requirements and delivery needs. We design and build all our pumps at our site in Bristol and are very proud to be a members of Made in Britain and the British Pump Manufacturers Association.

Apex Pumps ISF range offers an end suction pump conforming to ISO 2858 and ISO 5199. The ISF range is the ideal pumping solution for demanding applications such as chemical process and many industrial applications. A comprehensive range of 29 pumps sizes with many more configurations, high efficiency design and with low net positive suction head requirements. Available in a wide range of materials including stainless steel, Super Duplex and Nickel alloys for some of the most arduous chemical applications.

Apex will be showing at ChemUK stand E16 and are looking forward to meeting people face to face for the first time in a while and talk about your British made pumping solution.

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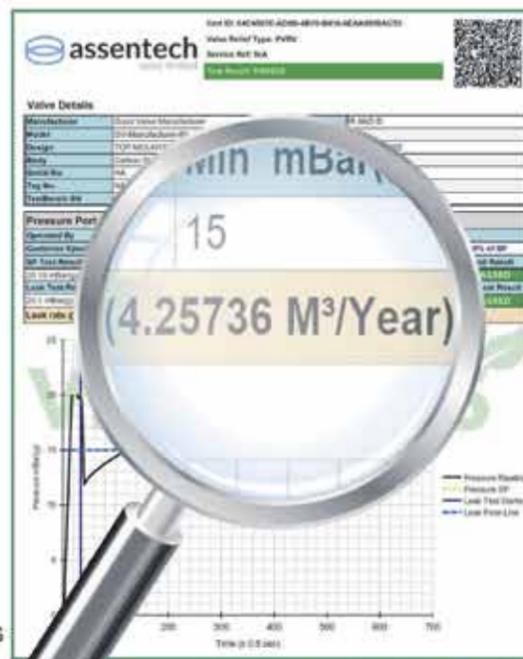
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LAUDA's new range of water chillers has been designed not only to comply with the new Eco-design directive, but to surpass it through the innovative use of variable speed modules that automatically reduce their duty cycle in line with the cooling demand hence reducing energy consumption & running costs, giving a tangible return on investment for the user, while ensuring full compliance with the latest regulations on refrigerant (fluorinated) gases.

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. Beyond temperature control, LAUDA has a well-established suite of solutions for measuring viscosity and surface/interfacial tension aimed at the development of polymers, oils, and surfactants.

We look forward to hearing from you.

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Find us on stand G52 at CHEM UK



UNISIG DEEP HOLE DRILLING SYSTEMS: PERFECTION IS NEVER AN ACCIDENT

UNISIG produces deep hole drilling machines that are used around the world by nearly every industry imaginable – and at UNISIG, striving for perfection has never been an accident. To secure long-term success, the company decided to further invest in machining its own precision parts rather than subcontracting components, as some of the most critical parts they produced have tolerances and complexity that cannot be made by most machine shops.



To machine their own parts while continuing to grow and develop new products, UNISIG embarked on a new approach to machining which would allow for industry-leading CNC machine tool accuracy and performance to be coupled with new technology that would ultimately eliminate manual intervention in machining that prevails in many shops.

“The deliberate connection between engineering, design, and machining improves our product. Our ability to rely on very high accuracy and productivity from our internal machining capacity allows UNISIG to provide more advanced solutions and value to its customers,” quoted Anthony Fetting, CEO of UNISIG.

Automated machining was the goal, which required a change in thinking by the team’s engineers,

programmers, and machinists. To harness this new direction, UNISIG put in the time and energy to secure the best manufacturing resources available, including several Okuma machine tools.

To begin, UNISIG devised a plan to combine modular fixturing, offline tool setup, and full simulation of the machine, workpiece, and tools to provide a platform of innovation within their machine shop. The team’s intent was to radically improve spindle uptime and exploit the full potential of automated CNC machining, even when the batch size would be only one part.

The first step of the UNISIG strategy was to move away from classic CNC boring mills and adopt the higher productivity potential of CNC horizontal machining centres with twin pallets. After consulting with credible industry sources and leveraging their internal team’s knowledge, the MB-10000H horizontal machining centre from Okuma was selected for medium-sized, high-accuracy part machining.

One of the most important factors in this capital investment was the need to trust the machine accuracy enough to program from its centre of rotation and let the machine run without stopping and manually verifying the machining process many times during the cycle. The Okuma MB-10000H



installation was a success and reinforced UNISIG’s wisdom to focus on automated machining – and the benefits were so extraordinary that UNISIG continued to look to additional Okuma solutions to bring its strategic vision to life.

UNISIG’s next target was large-part machining. Previously, to hold the finished machine tolerances, extensive hand scraping was necessary which added a lot of time and expense to produce these machines. UNISIG established a set of machining accuracy parameters that would eliminate much of this handwork to achieve tolerances.

Working directly with the local distributor, Morris Midwest, UNISIG was able to engage with Okuma America and Okuma Corporation’s technical leadership to tailor the specification of an Okuma MCR-A5CII 35x10 double column machine for the exacting geometry and overall volumetric accuracy needed.

The collective Okuma team ensured the MCR-A5CII machine tool specifications were defined and perfect for UNISIG’s application. A quick-change fixture system was developed by UNISIG to allow two parts up to 3 m (10 ft) long to be machined simultaneously and removed for setup offline. The results after installation were very impressive,

allowing lights-out automatic machining of parts previously not possible for UNISIG to manufacture.

With two machines from Okuma running and performing to expectations, one more opportunity identified for upgrade resulted in the new MA-12500 machine. The OSP Control common to these three Okuma machines was a big value to the programming and simulation group at UNISIG. “This baseline trust in Okuma is what allows UNISIG to excel at advanced manufacturing,” said Mr. Fetting.

In addition to offline tool presetting and modular workholding on all machines, UNISIG uses a variety of Okuma’s Partners in THINC suppliers including: Mastercam, Vericut® and Renishaw. Using a layered approach to technology and understanding the benefits of eliminating the gaps between engineering, design, and manufacturing, UNISIG has differentiated itself as a machine tool builder. The company’s long history of achievement is one Okuma and Morris Midwest are proud to be a part of – especially in helping UNISIG achieve their goal of capitalising on the full potential of automated machining.

For more information, see below.

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ECO PHYSICS, measurably better!

In this issue of Industry Update, we are pleased to announce ECO PHYSICS AG as our Environment, Health and Process Control Company of the Month.

Since 1989, ECO PHYSICS AG has had a passion for innovation. On a mission to contribute its know-how and technology to environmental preservation, human health and industrial innovation, the company believes fulfilling a social responsibility is just as important as economic achievements.

ECO PHYSICS AG is committed to offering innovative analytical solutions for measurement tasks in the field of environment, health and process control. With an ECOlogical leadership, the company is dedicated to sustaining the environment through its business activities. Dr. Grischa Peter Feuersänger, PhD, Head of Sales & Marketing explained the role of the company in more detail, "next to carbon oxides, the reduction of nitrogen oxides in our atmosphere is the decisive factor to diminish the ozone



appearance on ground level and the greenhouse effect in the stratosphere. With this in mind, we offer innovative analytical solutions for measurement of nitrogen oxides and related gas components like ammonia, in the fields of environment, health and process control. With our interdisciplinary research and development team we deliver customer oriented, tailor-made products and services."

Headquartered in Dürnten, Switzerland, ECO PHYSICS AG also has one office in Germany and one in the United States and is present throughout the world. As a supplier of gas component



detector technology, ECO PHYSICS AG's products provide many benefits for the industry.

ECO PHYSICS AG offers a broad range of nitrogen oxide analysers for fast and precise nitrogen oxide monitoring in various fields of applications. Following a product portfolio update in 2020,

the latest nCLD series by ECO PHYSICS AG uses a new graphical 7-inch coloured touch screen by which the instrument is locally operated from, with each NOx analyser capable of measuring various parameters combined with high adaptability to a multitude of sampling conditions. The range includes nCLD Economical Line, nCLD Modular Line, nCLD Supreme Line, and nCLD Ambient Line.



Dr. Grischa Peter Feuersänger explained: "Our analysers contain the widest variety of instruments and application types, measuring from 10,000 ppm down to 1 ppt (part per trillion). Besides the wide application coverage, each instrument also has remote operation and service access capabilities." Suitable for use in automotive, medical, industrial, semiconductor, environmental, ambient air and research applications, analysers from ECO PHYSICS AG are marked as the industry's finest.

"The graphical user interface enables a simple operation and shows the performance of each component. They are all equipped with their own PCB, corresponding with the mainframe. This status can be remotely accessed. Therefore, a detailed diagnosis can be made before any service intervention is conducted. The modular design and the individual, intelligent components make us a market leading brand," continued Dr. Grischa Peter Feuersänger.

This past year has provided its share of challenges for many companies, but ECO PHYSICS AG has also taken this time to find new opportunities. "Yes, public funded projects were delayed because the public sectors like research, universities, governmental and local authorities did not receive funding in 2020 or 2021. However, due to the portfolio updates we have received a growing number of customers in the industrial sector. In 2021, we welcomed our new CEO Mr. Dirk Wendt, and we are currently excited about the expansion of our R&D personnel for new developments," stated Dr. Grischa Peter Feuersänger.

For more information, see below.

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Humidity in the winter

Humidity levels drop in the winter because cold air holds less moisture than warm air. Many large buildings, warehouses and factories use air handling units to ventilate and heat large areas. These units take the cold dry air from outside and convert it to warm air inside. The problem gets worse when the dry air heats as it loses even more moisture, resulting in lower relative humidity.

human well-being and mechanical performance. Read more to find out how low humidity effects both human and mechanical production.

How does low humidity effect our wellbeing?
Low indoor relative humidity has a negative effect on human comfort. The adult human body is typically 60% water, so in a dry environment our bodies naturally lose moisture. Unlike temperature, low humidity is more difficult to detect.



The Science

Relative humidity is the amount of water vapour actually in the air, expressed as a percentage of the maximum amount of water vapour the air can hold at the same temperature.

At any given moment an air molecule will hold a certain amount of moisture – more on rainy days than hot sunny days. In winter, cold outside air (whether ‘wet’ or ‘dry’) is brought inside and heated. As air heats it expands, but the actual moisture content of each molecule cannot change, and therefore the relative humidity falls.

It is widely acknowledged that maintaining relative humidity levels between 40-60% significantly improves

Typical symptoms include:

- ▼ Dry and itchy skin
- ▼ Cracked lips
- ▼ Dry eyes (especially for those with contact lens)
- ▼ Sore throats
- ▼ Nosebleeds
- ▼ Headaches

In addition, low relative humidity dries our mucous membranes and inhibits our body’s natural defence against germs, viruses, and bacteria, making us much more vulnerable to catching common colds and flus. Maintaining relative humidity between 40-60% is scientifically proven to reduce the spread of airborne pollutants and viruses.



How does low humidity effect mechanical processes?

Moisture absorption also affects hygroscopic materials like wood and paper. The low humidity dries out these materials causing them to shrink, curl, crack or split. When these materials pass through machines, usually at high speeds, it causes paper jams and machine breakdowns. A list of common problems is listed below.

- ▼ Static electricity build-up and ESD
- ▼ Drying out of hygroscopic materials like wood and paper
- ▼ Paper jams and machine breakdowns
- ▼ Increased wastage
- ▼ Decreased productivity

The Solution

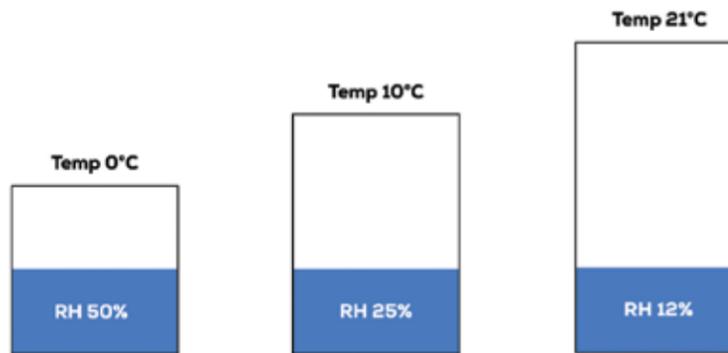
There is a wide range of humidifiers and a variety of factors to consider in selecting the right humidifier for each building or application, such as energy use, water supply, cold water or steam, gas or electric, evaporative

or spray, humidifier situation, control compatibility and maintenance needs. It is therefore important to seek advice from specialists who can provide guidance and design a bespoke system that will serve each unique specification. Installation, commissioning, spare parts, ongoing service and maintenance costs also need to be considered, and a planned maintenance contract is recommended to ensure equipment is kept in good working order and the initial investment is not wasted.



Humidity Solutions have a team of experienced and highly knowledgeable engineers who can advise on a full range of applications and provide a complete turnkey solution, providing reassurance for the customer and protecting their investment in both their people and their machinery.

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Hoval’s UltraGas 2 is ‘hydrogen-ready’

The UltraGas® 2 range, Hoval’s latest generation of gas condensing boilers, offers the option of using hydrogen as an alternative fuel to natural gas to deliver zero carbon emissions. Moreover, gas-fired models that are installed now can easily be converted to hydrogen in the future. UltraGas® 2 is also compatible with biomethane.

Thanks to the standardised Hoval TopTronic® E controller, UltraGas® 2 boilers can be easily combined with any type of heat generator and solar energy system to create hybrid systems that deliver optimum efficiency with minimal emissions. With a maximum operating temperature of 95Deg.C they are ideal for use in district heating/heat networks.

Efficiency is also inherent in the UltraGas® 2 design. For instance, the patented Hoval TurboFer® heat exchanger uses injection technology to generate turbulence and boost efficiency, while high and low temperature return flow, a large water capacity and the Ultraclean® combustion system combine to deliver unparalleled performance.

UltraGas® 2 models are available with output ratings from 125kW to 1550kW (250kW to 3,100kW as a double boiler), and in 10 bar versions for 720, 1100 and 1550kW units. Ease of installation has been a key element in the design, so there is no need for system components such as a circulating pump or hydraulic separator. The amount of pipework in the TurboFer® heat exchangers has also been reduced to minimise weight, resulting in a lightweight, compact design.

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UltraGas® 2

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- 95°C

Maximum operating temp up to 95°C
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 Carbon Dioxide
 Methane

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Sustainable recycling solutions



In this issue of Industry Update, we have selected Presona UK as our Water, Energy & Environmental Company of the Month.

Established in 2008, in just 13 years Presona UK has grown to be one of the world's leading manufacturers of baling equipment. Founded with a vision to make recycling easier and more efficient for its customers, Presona has morphed into an establishment to which its employees and customers still remain at the core of its ethos.

With its main head office based in Tomelilla, Sweden known as Presona AB, Presona UK is able to draw upon its resources and synergies from the global presence Presona has established. From customer service to technical expertise, Presona has been essential in supporting and raising the consistent standard of efficiency and professionalism within the recycling industry. One of the most important areas in which Presona's experience helps to deliver innovative products and services designed to save customers time and money is through the development of its balers, conveyors and waste extraction systems, all of which are designed to meet these objectives. Furthermore, Presona equally works to reduce stress within the recycling environment by identifying and resolving pinch points and providing operator training, comprehensive preventative maintenance programmes and a 24/7 support whenever needed.

Presona work within many industries, whether you're a recycler, logistics company, manufacturer or retailer, Presona has a goal to improve all companies recycling performance. Recruiting many highly skilled staff with advanced technological and industry knowledge has built the backbone of which enables Presona to develop excellent products and services. Its team of compassionate, friendly, and professional people are on hand to design, install and maintain all Presona products and services ensuring maximum efficiency and efficacy with minimum stress.

As a solution-based company, Presona only sell a product or service to a customer if it can make a positive benefit, thus being to improve time management, profits and smooth out operations. Presona only produce the highest quality recycling process equipment that are designed with the latest and most effective technology and methods available.

Presona produce its own range of balers that are some of the most efficient balers on the market with some savings of up to 60% on conventional shear balers. "We supply our own range of baling equipment capable of producing anything from 40 tonnes of pressure right up to 270 tonnes. Our balers will process a range of recycling materials like paper, cardboard, plastic and some metals, into dense bales for easier, more cost-effective shipping. Other benefits include time, team



and money, meaning that our balers and equipment will give more time to our customers and time to focus on other areas of their business. Our equipment will make their team more effective at their job due to less manual intervention from staff on our fully automatic equipment. With the mixture of saving customers time and giving their team other areas to work on, this will in turn save them money on expenses within their business," stated Richard Portas, Customer Accounts and Marketing Manager.

Presona offer a range of balers that can be used to compact materials such as municipal and solid waste, packaging materials, textiles, carpets, metals, RDF and SRF and more. There is also a series of fully automatic LP Range balers for larger, heavy-duty applications throughputs.

Its latest invention the MP 270 MH 'Mega', is a baler designed to reduce multi baler sites down to the need for just one baler. Its capable of producing 270 tonnes of



pressure giving exceptionally dense bales of cardboard, plastic and paper, and up to 45 tonnes per hour.

Chain belt conveyors are an integral part of recycling and waste management plants. Presona has a rich history of designing and supplying bespoke conveyor systems to support its LP series balers. The PreVaya is Presona's latest conveyor system which is better suited to rugged environments and easier to maintain and upgrade than any others on the market.

The PreVaya can be used with any make of baler and can be tailored to individual requirements, material and footprints. Designed to solve recycling/waste problems by including high side walls and a system to accommodate exceptional tonnages, it's heavy-duty, galvanised inside and out and service-friendly. "The PreVaya is modular construction that saves on downtime as there is no need for specialist tools like cutters and welders, it's a simple case of unbolting, replacing, check and leave," said Richard.

In 2020, Presona helped ethical retailer Co-op further reduce its carbon footprint with the installation of two new balers and Presona built conveyors at the firms Avonmouth and Andover Distribution Centres. The



Co-op group used the balers to compact the recovered store materials for recycling and reuse into new films and boxes. The production of materials compacted through the balers supported the Co-op in reducing the number of lorry movements in moving materials to recycling centres and mills around the UK. The partnership was a glowing success to which Co-op stated its wishes to continue working with Presona more in the future.

In further support to the recycling industry, Presona can design, build and install custom, cost effective materials recycling sorting plants. A typical plant can be designed for two or more fractions with an annual material flow of between 30,000 to 300,000 tonnes. From start to finish, Presona take complete responsibility for the contract, project planning, design, erection, commissioning and ongoing maintenance of the plant.

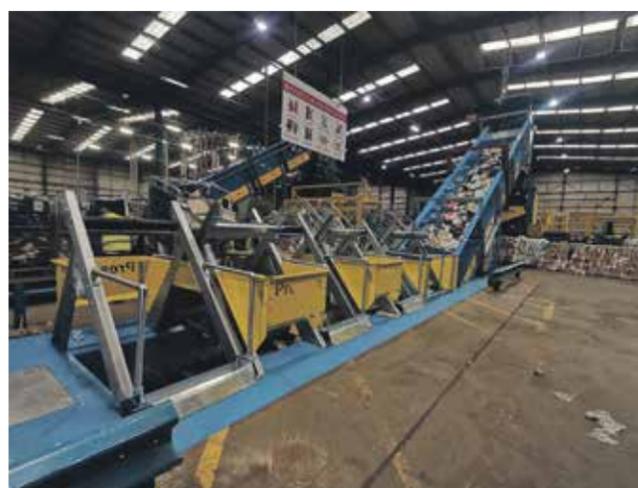
Some production processes can result in lots of small material offcuts where a manual collection system can be inefficient. Presona create bespoke waste extraction systems to combat this issue. Its designers will create a system with the optimum air and material flow capacity via the most effective number of suction points whilst minimising energy consumption. These can be used as a standalone plant or can be seamlessly integrated with Presona balers and conveyors for an unparalleled system.

Presona's products and services provide critical benefits to its customers thanks to its carefully thought-out innovations and extensive technical know-how. Its products and services allow customers to be more productive with their time and expenses that would once have been lost through unnecessary and inefficient recycling processes.

Delivering a structured, fair and consistent service, Presona's products offer a solution that has been tried and tested for many years. Taking ownership to constantly improve, allowing no room for complacency, Presona is always pushing the boundaries of innovation to make further solutions for better recycling processes.

For more information, see below.

T 01278 444527
sales@presona.co.uk
www.presona.co.uk



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.

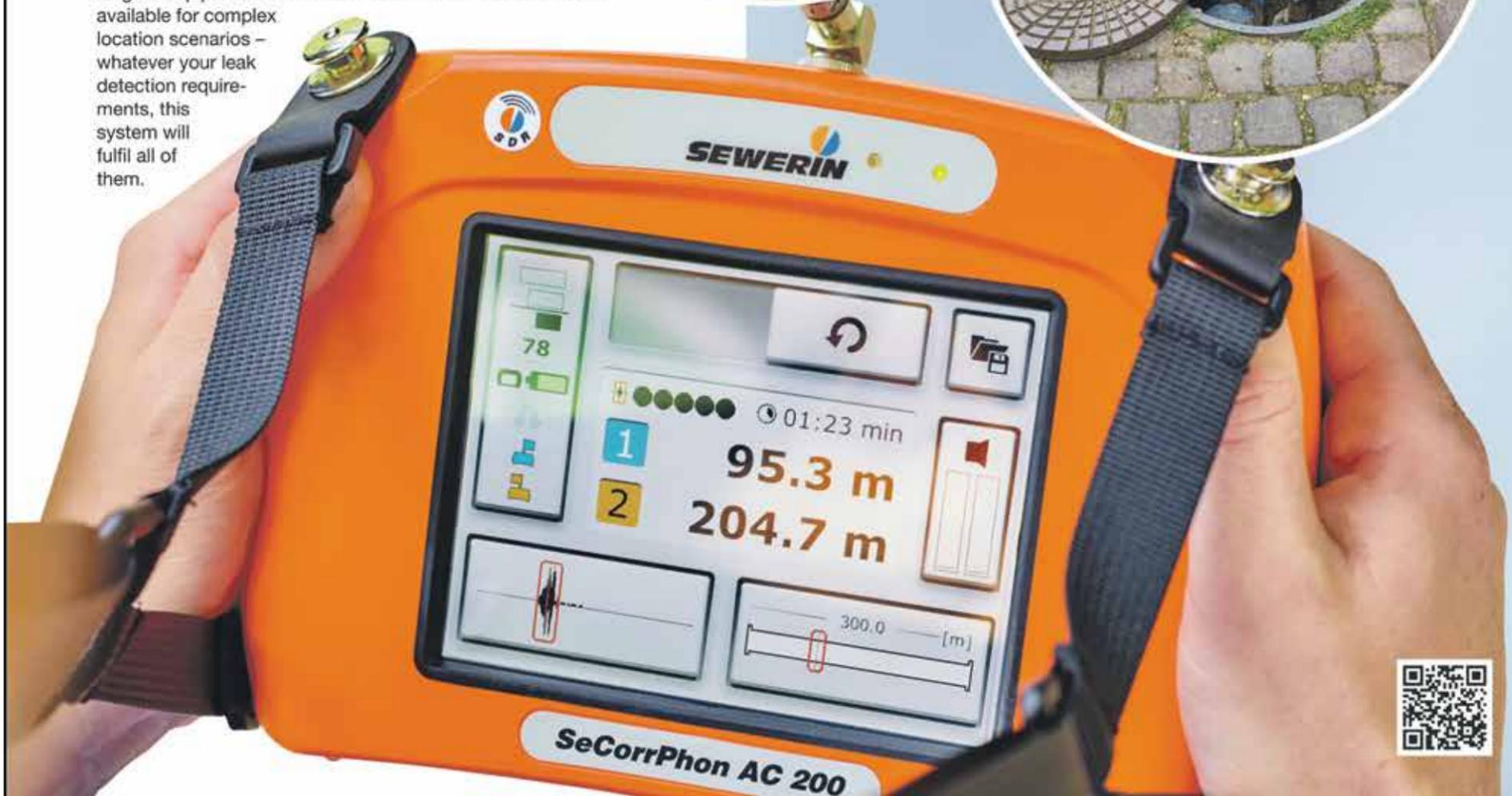


Correlator and acoustic water leak detector combined

SeCorrPhon AC 200

professional – flexible – intelligent

- Easy and reliable operator guidance through applications
- Integrated audio player to compare leak noises directly on site
- Unproblematic measurement of various pipe sections, pipe materials, diameters and pipe lengths
- Sophisticated firmware allows the user an almost automated measuring process



Setting the standards for the sewage industry

In this issue of Industry Update, we are proud to announce that we have selected The National Sewerage Association (NSA) as the recipient of our Association of the Year Award.

NSA has built a strong reputation through its credentials within the sewerage industry and the association was formed in 1996 to represent the interests of companies associated with the survey, operation, maintenance and renovation of sewers, drains and pipelines.

“The National Sewerage Association has its roots in the Association of CCTV Surveyors which was founded in 1980 when a number of smaller contractors wanted a voice in the industry which was then dominated two larger companies. Some three years later the Association of Flow Survey Contractors was formed. Some five or so years



and helps to ensure that its members meet the ever expanding, service standard requirements. In addition, the Association is dedicated to identifying customers' needs, service standards and performance criteria for its members, alongside looking at existing and new market opportunities. NSA also acts as a focus for complaints on non-conformance and other general or technical inquiries.

Val added, “The Association provides an arbitration service for the members and runs occasional audits to ensure standards are being maintained. The audit service is valued by many of the members. Any technical queries are responded to and where the answers are not available in-house, solutions are sourced elsewhere.”

The focus of the NSA, has been concentrated on standards and good working practices; thereby providing its members with the sound foundation to work to the contractual requirements of the Water Authorities/Companies.

“We look to ensuring that revision to standards and working practices continue in fairness to all parties and areas of conflict are avoided with a watching brief on equipment and reporting evolution,” said Val.

The Association holds high expectations for its members, especially in regards to meeting high criteria for staff training, in the tough environments in which they operate. This includes reporting procedures for sewer and drain inspections, flow survey analysis, confined space entry, lighting, signing and coning, water jetting and workplace awareness.

The Association and its officers are recognised for their depth of knowledge within the sewerage maintenance industry, being approached by external bodies as needs determine. In fact, the NSA has been involved in the preparation of National Contract Documents as well as standard operating and reporting systems.

Proud to be regarded as an industry standard setter, the NSA have been actively involved in the



development of various standards including the development of European Standards for Pipe Defect Classification, the result being the publication of BS 13508:2 in 2003 with implementation of the National Equivalent in 2008 and its successor.

In addition, the operative standards have been set and in conjunction with Develop Solutions (previously WTi), team leaders and operatives receive efficient training and accreditation, to meet the standards required by the Water Services Plcs.

Training standards have also been developed for sewer jetting and cleaning, to meet new codes of practice and a basics skills course has been put in place for personnel operating in the domestic market, enabling them to obtain City and Guilds Certification.

“Particular efforts are made to increase awareness of the Association, its aims and services among relevant client groups, regulation bodies, professional bodies, Government departments and contact groups and training bodies,” mentioned Val.

The Association is also responsible for the

accreditation of its members and places a strong focus on policing and monitoring their performance for customers.

In terms of recent developments, as the industry constantly evolves, so does technology, which has been a focus for the association.

“Computerisation of CCTV reports was just being introduced as the Association was formed and now, 40 years later, the coding system for computer input has progressed to a European standard (BS EN 13508:2). Surveying with AI is now very much under discussion and the equipment used within the industry has also evolved through the years with safety and improvement in electronics such as miniaturisation and lighting.



Val continued on other recent developments, “The Manual of Sewer Defect Classification, the Surveyor's ‘bible’, is currently being updated in preparation for a 6th Edition. The Water Companies now expect certification to the 5th Edition to be held by operators working on their contracts; this now requiring a five year renewal. Standards are also in place for Flow Surveying, Mapping and Water Jetting with associated model contract documents.”

There have been many new challenges presented for the industry due to the COVID-19 pandemic. The period has provided some difficulty for NSA members with staff shortages and associated COVID-19 restrictions. Fortunately, as an essential service, NSA was able to carry on its operations during the pandemic and responded to new challenges by adapting to virtual meetings and working from home and has even noticed the benefits that home working has offered.

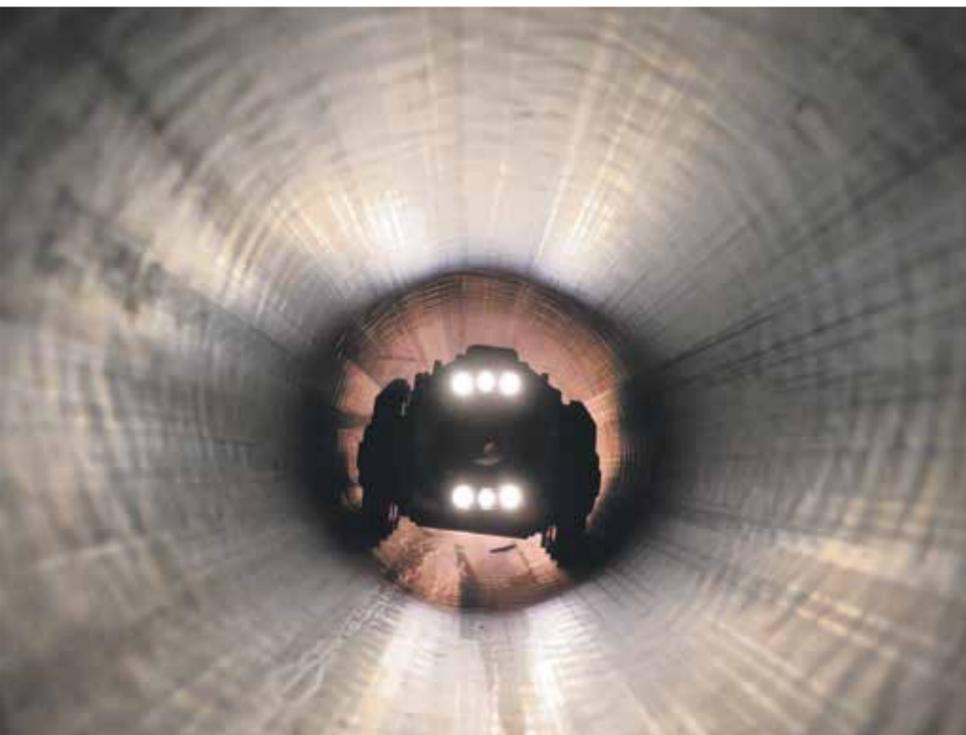
Val explained, “The last 12 months have seen no face to face meetings and talks etc. have been held via video conferencing. It is likely that this practice will continue, at least in part, as it allows greater participation and is more economic as travel time is saved as well as hotel costs.”

As the Association looks toward the future, it plans to continue to encourage maintenance of standards and good working practices by its members and the expectation of such from clients including the contractual quality control procedures. Val added, “We will also maintain a dialogue so that any new requirements/working practices are practical and to the benefit of all parties.”

Indeed, the NSA plans to maintain and grow with its industry, and to continue providing the best services, training and industry information for its members.

If you would like to find out any further information, please see the details below

T 020 8330 0123
www.sewerage.org



Fristads Green High Visibility



Fristads takes the next step in becoming a more sustainable supplier of workwear by launching its most comprehensive sustainably produced workwear collection to date – Fristads Green High Visibility.

The Fristads Green High Visibility collection consists of a wide range of garments making it possible for professional workers within many market sectors to dress from top to toe in high visibility garments with lower environmental impact – without compromising on safety and quality.

Leading the way in sustainability

Fristads has a long-term goal to lead the workwear industry when it comes to sustainability and broke new ground when it launched the world's first environmentally declared clothing collection Fristads Green in 2019. All Fristads Green products have an Environmental Product Declaration, an EPD, showing the garment's total impact on the environment, from construction and material choices to waste and transports.

This is the fourth Fristads Green collection to be released. Since the launch of the first environmentally declared collection for craftsmen, the Fristads Green concept has been expanded to include garments for service and industry as well as outer garments. The plan is to offer environmentally declared Fristads Green garments in all product segments.

You can now calculate the environmental impact of your workwear using the GREEN calculator – www.fristads.com/en-gb/fristads-green-calculator

Contact Rob Freeman
T 0203 026 7767
Sales.uk@fristads.com

The EL-WEM, EasyLog's new WiFi Indoor Air Quality Monitor



Designed to help ensure high levels of air quality at work and in the home. Measuring particulate matter, VOCs, temperature, humidity and pressure the EL-WEM is designed with your comfort and safety in mind.

Easy to set up using the EasyLog Cloud App, the EL-WEM uses a five-stage traffic light system to rate air quality from Excellent down to Inadequate, displaying colours from green through to red with each light corresponding to the status of the air quality (Excellent, Good, Fair, Poor and Inadequate). A sounder alerts those nearby if IAQ drops to Poor or Inadequate.

The EL-WEM's sophisticated sensors measure both PM2.5 and PM10 particulate matter, and also VOCs that come from paints, lacquers, and paint strippers, cleaning products, furnishings, glues, adhesives and alcohol.

When connected to the EasyLog Cloud, your EL-WEM can be configured to send notifications of poor air quality by email and SMS messages. You can also view, analyse and download your measured data.

View and purchase the EL-WEM here and keep an eye out for the rest of the EL-WEM range coming out soon.

Your data, anytime, anywhere.

www.lascarelectronics.com

Reducing cut risks

Since its formation in 1993, The Safety Knife Company has become a leading manufacturer of safer cutting tools and has helped to prevent countless workplace injuries.

The company's original product, The Fish 200 Safety Knife, was the result of a chance conversation between the inventor, Bill Ireland MBE, and a farmer who had lost the sight in one eye after an accident cutting string on a hay bale. Once in production, the 'Fish Knife' soon found an industrial market as a safer alternative to an open blade knife for removing packaging materials.

Over time the range of products has gradually grown to include other 'enclosed blade' safety knives and a variety

of retractable blade knives. We are also a stockist for the innovative Slice ceramic blade cutters.

Most of our products are available in 'metal detectable' plastics making them suitable for use in food production areas.

We are regularly asked to solve specific problems by customers. Recent project examples include mounting a safety knife on a telescopic pole to enable operators to cut strapping from building materials on lorry trailers. This does away with the need to climb on to the trailer and therefore be 'working at height'.

NOVA Safety Knives. We are delighted to have been

appointed as exclusive distributor for the UK and Ireland for the NOVA Safety Knife range in early 2021.



Our products are available from our web shop, through 100's of distributors or directly from our sales office. We also have experienced staff on hand to help you through the evaluation process if you are looking to introduce safety knives to your workplace.

T +44 (0)1452 887900
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www.safetyknife.net

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Registered Safety Supplier

The world leader in force measurement

In this issue of Industry Update, we have chosen Interface Force Measurement Solutions as our Load Cell and Torque Transducer Specialists of the Year.

Interface Force Measurement Solutions (Interface) is a UK company specialising in the supply and distribution of high-quality sensors and associated electronics and displays for a wide variety of industries. Working previously with clients such as Airbus, BAE Systems, and Formula One Teams, we spoke with Tony Rokins, Business Development & Pressure Mapping Specialist, who explained some of the companies well known products.



“Our product portfolio is applicable to many industries. For instance, we are well known for our high-quality pressure mapping systems that are used by many of our automotive and motorsport customers. Our sensors deliver highly accurate, repeatable measurements and many of our load cells are used by calibration houses as calibration reference devices. Our high-quality, yet competitively priced 3 and 6 axis load cells are used for many R&D, renewable energy and robotic applications.”

Reflecting on last year, Interface has faced much adversity from COVID-19. Fortunately, its sturdy business model and reliable service has enabled the company to pick up the pace and continue projects that were left postponed. “Trading conditions have



been tough, but business levels picked up strongly towards the end of the year. I think we came out of it stronger than we could have reasonably expected.”

In terms of recent developments, Tony continued, “we’ve taken some time to review our business model, how we operate on a day-to-day basis. Being responsive to our customer’s needs and being able to offer a high-quality product with strong product knowledge at a competitive price with the best possible lead times is our number one priority.”

2021 also welcomed the launch of the G-Series Load Cells. The range comprises of miniature and small sensors for industrial applications, with capacities starting from just 4.5N Newton up to 200kN with metric threads. “These are high-performance devices but aimed at more cost-conscious applications. This is a new market for us, but we are seeing increasing interest. We are launching an e-commerce

website for the G-Series in the next couple of weeks. Competitive pricing and availability from stock will be key to this new venture’s success,” stated Tony.

In the future, Interface is keen to continue its growth trajectory for 2022. We asked Tony how he felt receiving the award and what their plans are going forward, he answered, “we work hard for our customers to offer the best measurement solutions. The recognition is greatly appreciated. Long term, we are strengthening our position with our customers in our more traditional markets of aerospace, automotive, motorsport, Universities and alternative energy research.

We are also working on new, wireless force and vibration sensors for remote monitoring in systems such as luggage carousels. One more area we are pushing for growth is with XSensor’s pressure mapping systems, particularly in the Hi-speed systems designed for high-speed impact or crash testing and tire foot-print research. These systems are capable of capturing data up to 2,500 frames per second. The tire sensor can be driven over at speeds of up to 140kph. I believe this is a unique capability we can bring to the industry.”

For more information, see below.
T 01344 776666
info@interfaceforce.com
www.interfaceforce.com



Marking Solutions Company of the Month

Helping you make your mark

In this issue of Industry Update we have selected SIC Marking as our Marking Solutions Company of the Month.

SIC Marking Ltd in the UK was established in October 2017 by Paul Sidwell, from a blank canvas. The company is based in Warwick and is one of nine subsidiaries around the world. The head office and manufacturing facility is located in Lyon, France and other subsidiaries are positioned in Germany, Italy, USA, Canada, Mexico, China and South Korea.

SIC Marking provides unique marking and traceability solutions, and offers a wide range of products, consisting of Dotpeen, Scribe and laser marking systems which are used within various industries worldwide.

One of the main benefits of SIC Marking Group, is its plethora of industry knowledge and deep understanding of its customers needs. As forward thinkers, SIC Marking anticipates the

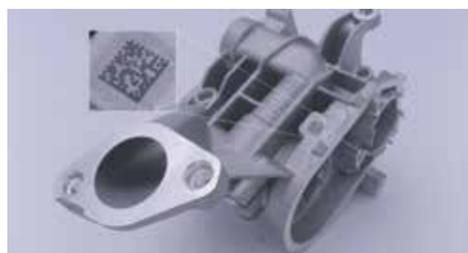
industry’s needs and expectations, and utilises its R & D and Design departments to ensure its constantly fulfilling the ever-changing needs of the industry.

Some notable products within their vast range include the new eTouch hand held Dotpeen marking machines and new range of large class 1 Laser enclosures: the XXL-Box range.



The new eTouch hand held Dotpeen marking machines, feature a user-friendly colour touch screen with icon based technology, which has been extremely well received by their customers. Providing a whole host of benefits including functional interchangeable front plates, a robust internal metal structure and is one of the lightest available on the market.

The XXL-box range of modular laser marking workstations provides a



marking station adaptable to customer’s needs. The range is available in three different widths (800, 1200 and 1600 mm wide) which offers the possibility to mark parts up to 520 mm high and 820 mm deep. Offering leading working capacities, the XXL-Box Laser Station is an exciting new addition to SIC Marking’s standard product range and is the most competitive solution for marking large components.

In terms of recent developments, SIC Marking UK has been able to come through the COVID-19 pandemic stronger than before and has even seen some impressive growth. This includes the expansion of its product range and increase in its brand awareness. In addition, the company has recently taken on two new members of staff; one in Sales and another in Aftersales.

SIC Marking UK continues to grow successfully due to its high levels of knowledge and experience, which it plans to continue, with the aim of providing a marking solution, not just a product. In other plans, the company will be expanding its team further, with the appointment of a new trainee Service engineer to support its continuous sales growth.



SIC Marking UK maintains its main ambitions of building a business with service and support in mind and continuously aims to provide its customers an outstanding service and a great experience.

For more information, please see the details below.

T +44 (0)1926 830372
www.sic-marking.co.uk



Drallim Rotary Selector Valve (RSV) solves challenging process applications



The RSV continues to collect new and interesting applications. It is a small bore, multiport, multibank rotary poppet valve system suitable for a variety of fluids operating from 1-10 bar.

The latest configuration has been created as the heart of a piece of equipment designed to monitor the conductivity and dissolved oxygen levels in water samples. The intention is to be able to divert the single sample stream through two different Conductivity Flow Cells and Cation Columns/Filters, but also with the capability to be able to reverse the flows to enable backflushing of the two Cation Columns/Filters while the system is in operation.

The pictures show the valve in development with a complex flow diagram.

At the same time, we continue to receive orders for bigger more complex systems such as the emergency gas slam-shut system. Originally developed with ball valves which failed due to cross port leakage. The RSV solved an important safety issue and has proven to be a robust and reliable solution in this low temperature critical gas safety system.

Contact
T +44 (0)1424 205140
sales@drallim.com
www.drallim.com

Optimise your pipework with swivels



Rotaflo have 35+ years' experience in designing and manufacturing Swivel Joints. We solve and resolve engineering problems where fluids need to be transferred across rotating interfaces, without leakage. Our units are in most engineering sectors: From Brewery, Dairy, Food & Drink, Process & Plant, Drilling & Mining, Oil, Gas and Subsea, Nuclear and Chemical.

Through design and in-house manufacture our swivel joints can allow one or more different flows through a single unit, enabling the pipework to rotate 360 degrees whilst carrying fluids (including hydraulic and pneumatic) of different pressures without cross-contamination or leakage.

There are many different forms of Swivel Joint... from very straight forward designs of our F and FS series, Compact swivels or Heavy Duty to Articulated Pipework configurations, Floating Suction Arms, Jacketed, High pressure. A Swivel Joint reduces costs by reducing the risk of leakage with its associated downtime. And by fitting a quality designed swivel you are improving your production capacity.

We are specialists in taking your bespoke requirements and being able to design a solution that can fit your budget, dimensions, materials, FAT/witness testing; hygienic and pressurised environments. We regularly test to Hyperbaric, Seal Life and conduct Temperature/Pressure/ Load Cycle Testing. We are ISO 9001:2015 certified.

We have off-the-shelf solutions that are ready to go, or we can redesign and in-house manufacture to enable a quick turn-around with minimal fuss and maximum design experience.

Rotaflo have built up a reputation for providing reliable and quality designed products that resolve your engineering needs and we are proud to say many customers request our services over and over again.

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times and develop innovative new products and improved manufacturing strategies. From enquiry through to production we have the products and technical ability to assist you with your workflow and your MAKE journey.

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Intelligent solutions and dedicated support

Tooling Intelligence®

In this issue of Industry Update, we have selected Tooling Intelligence Limited as our Inventory Management Solutions Company of the month.

Tooling Intelligence Limited delivers innovative inventory management solutions for organisations across a broad spectrum of industries. From its base

in Warwickshire, England, the company provides intelligent inventory management solutions for a range of industrial applications across more than 45 countries.

“Our client relationship commences well before the installation of a system, as we work together to identify the ideal solution to a specific requirement. The relationship develops with our ongoing support and maintenance provision, leading to long-term partnerships across multiple sites.

As the European Partner of SupplyPro Inc, we provide

a range of point-of-use industrial vending solutions to industrial sectors such as Aerospace, Oil & Gas, Transport & Maintenance, Medical, Automotive, Defence and Motorsport. We are focussed on consistently delivering the highest levels of service and support to ensure the partner, customer and end-user have a fully supported solution, from the point of order onwards,” added Richard Swaffield, Director.

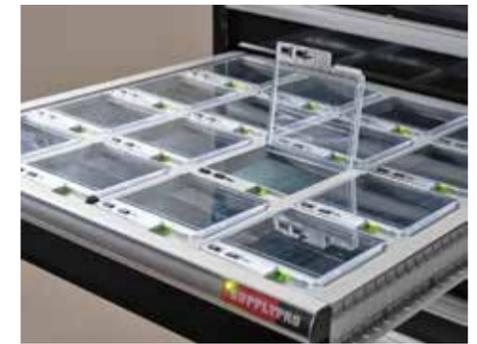
Combining cutting-edge solutions with market-leading customer service, Tooling Intelligence Limited provides quality customer support, co-ordination, manufacture and installation services. Since its inception, the

company has developed and built upon its expertise, and strives to achieve the highest standards of assembly and service for its customers. As such, Tooling Intelligence Limited provides a comprehensive service and works in collaboration with its customers to ensure a full, efficient and tailored service.



From the first inquiry, the team works closely with its customers to ensure it finds the right inventory management solution to suit their individual needs. Assisting with product design to allow customisation of its products, Tooling Intelligence Limited is equipped with the knowledge and skills to provide a full rounded service.

In addition to this service, Tooling Intelligence Limited provides ongoing support to its customer, with a strong understanding that the customer journey doesn't end once the installation is complete. Whether the customer wants to expand their existing inventory management solution or is in need of technical help, the friendly support team at Tooling Intelligence Limited is ready to help by



phone, email, chat, or its exclusive online Partner Portal. This support infrastructure illustrates the company's commitment to delivering outstanding levels of customer service.

Tooling Intelligence Limited's systems provide a whole host of state-of-the-art features and can be fully integrated with ERP systems, ensuring that its customers' business is always looking at live vending and inventory data. Some of the key features include asset control, calibration management, check-in / check-out of equipment, API platforms, ERP integration, automated ordering, drill-down reporting, data analytics and live graphical dashboards with in-depth inventory analysis.

Tooling Intelligence Ltd will be exhibiting some of its products and services at MACH 2022 at the NEC, Birmingham in April. The company also looks forward to relocating to new, larger and purpose-built premises at their current business park, later this year.

Richard elaborated, “Currently, we have three separate facilities and also off site storage. The build of our new premises on the same business park is already underway to bring together our customer support centre, manufacturing facility and warehouse.”

For more information on the company, please see the details below.

T 01926 484511
www.toolingintelligence.co.uk



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Medical Shops Achieve Surgical Precision with Deep Hole Drilling Automation



Medically speaking, cutting people open is dangerous. Today, physicians get around this problem by using modern surgical instruments to perform minimally invasive procedures, which make major operations into simple outpatient appointments. But to accomplish these feats of surgical science, manufacturers in the medical industry have to drill small-diameter holes through the entire length of slightly larger instruments. Thin part walls, intricate features, high surface quality and concentricity requirements, and extreme depth-to-diameter (D:d) ratios make these parts a challenge in production.

A typical laparoscopic surgical instrument is designed to direct tools, cameras and other devices into the body through the instrument using a guide wire. And to ensure smooth, reliable and accurate performance during procedures, highly precise hole concentricity is required at D:d depth ratios well above 100:1, a challenge even for dedicated deep hole drilling equipment.

With these challenges, it's no surprise that many manufacturers try to skip the deep hole drilling process altogether by farming out the work, but going to outside suppliers brings its own problems. Pre-drilled blanks might solve the deep hole drilling problem, but they have to be fed into the machine one by one,

defeating the whole purpose of using automation-ready Swiss-style machines. Meanwhile, cannulated bar stock allows shops to continue using their bar feeders, but it's very expensive - and the hole quality and O.D./I.D. concentricity rarely meet the needs of medical manufacturers anyway.

To overcome these challenges, medical manufacturers are turning to dedicated deep hole drilling equipment to finish instruments started on the Swiss-style machines. With an experienced gundrill operator, careful setup and a bit of finesse, the hole quality can be excellent, and it allows the Swiss-style machines to remain fully automated. The only remaining problem is part handling and transfer which introduces significant risks when the accuracy requirements are so high, and if the part has to be flipped to drill a stepped bore, that introduces more setup operations and more risk of human error.

What medical manufacturers need is a truly end-to-end automated process that allows for an efficient single-piece workflow for surgical instruments - and some deep hole drilling OEMs, such as UNISIG, have engineered all the technology required to meet this goal. The result is a complete system that offers easily automatable, on-demand deep hole drilling processes for the most demanding surgical instrument applications: the UNE6-2i.

As a twin-spindle machine with two independent drilling axes, the UNE6-2i inherently has the capabilities manufacturers expect from a high-performance deep hole drilling machine. Counter-rotation, specialised workholding and superior alignment and precision allow shops to confidently hold concentricity tolerances and minimise mismatches, even at the extreme D:d ratios common in the medical industry. In addition, the UNISIG Smart Control Interface simplifies operation, while an innovative flow-based coolant system automatically reacts to pressure changes for effective chip evacuation and high process security.

What allows the UNE6-2i to truly shine as a part of the surgical instrument production process, however, is the in-machine automation. After the front spindle drills the first hole, a robot takes it out of the spindle, puts the hole onto the second spindle, and loads another fresh blank into the first spindle. The robot's perfect repeatability ensures the highest hole quality - and the only human labour required for the process is loading bar stock into the Swiss-style machines, preparing the blanks for the UNE6-2i's robot and sending the finished parts on for post-processing.

The UNE6-2i's capabilities also give manufacturers significant production flexibility. Two holes with two different diameters could be simultaneously drilled in a single part, or two parts could be in-process simultaneously to allow operators or robots to load and unload the machine without stopping. Alternately, this twin-spindle configuration can be used to drill halfway through a part from one end with the first spindle and allow the second spindle to finish the hole from the opposite end.

Contact
www.unisig.com



UNISIG: Time to rethink sharpening your gundrills



The modern gundrill is an engineering marvel, a well-designed piece of equipment that does one thing exceptionally well. A new gundrill will produce round, straight holes with enhanced cylindricity even at its deepest points. And it does all this while simultaneously providing a fine ID finish and excellent tool life.

Like all tools, gundrills wear out, typically after drilling around 1,000". While a talented operator can still drill a hole with a worn gundrill, it will more often result in a loss of hole tolerance and finish at best. As gundrills wear, they require more thrust and torque while producing more run-out and experiencing greater drift. A dull cutting edge will produce irregular chips, which in turn cause spikes in coolant pressure - sure signs that failure is imminent.

Unlike some tools, gundrills are excellent candidates for sharpening. When performed correctly, the same gundrill can be sharpened to perform as well as a new drill as many as 8 to 10 times. The only significant difference between a sharpened gundrill and a freshly produced tool from the OEM is a slight back taper, an issue only for shops that require tolerances far beyond most manufacturers' needs - all other shops can simply account for the ever-so-slightly reduced tool diameter. Otherwise, the only visible difference will be seen in the length of solid carbide on the gundrill's tip.

Even coated drills can be sharpened. Naturally, this will reveal the raw carbide on the face, but this does not impact performance. The coating will remain on the wear pads and continue to improve the

gundrill's size control and ability to leave behind a finished surface. Tool life will be impacted, but the only other option is having it fully resharpened and re-coated by the OEM, which will likely be less cost effective. Manufacturers have several options for resharpening their gundrills.

For specialised gundrills, such as twin-flute tools and those intended for ultra-high-feed applications with chipbreakers below a coating, resharpening is something that only a gundrill's OEM can do. A local sharpening service will likely have the proper equipment, but this requires having redundant tooling & factoring in lead time and transportation costs.

However, both of these methods result in a loss of process intelligence. The grinding process can offer valuable information manufacturers can use to optimise their gundrilling applications. As a result, more manufacturers that use gundrills are choosing to resharpen their tools in-house.

The main risk of performing resharpening operations in-house is poorly sharpened gundrills. Without the correct tip geometry, gundrills do everything worse: size control, roundness, cylindricity, finish, chip control, straightness and depth all negatively impact workpiece quality and result in significantly diminished tool life. This will cause operators to reduce feedrates or change out tools more frequently to achieve the necessary tolerances and out of fear of catastrophic tool failure.



Modern gundrill grinding systems make it easy to avoid these consequences. For the greatest advantage, one needs the full system. That means a grinder, the appropriate gundrill fixture and equipment for calibrating and inspecting the drill tip.

A basic, high-precision manual tool grinder is used as a platform for these systems, though the length of some gundrills necessitates a reinforced table for sufficient accuracy. Choosing a fixture can be more complicated, as gundrills can be ground in two different ways. Sweep grinding leaves behind a gradual transition between elements of the tip's geometry, while facet grinding creates distinct geometry. UNISIG typically recommends facet grinding, because the slight increase in tip strength produced by a sweep grind is outweighed by the repeatability and greater ease of inspection offered by facet grinds.

The final piece of advanced gundrill grinding systems involves a digital inspection camera capable of viewing and storing magnified images. Ideally, this will allow the user to perform measurements and identify flaws without taking the tool out of the fixture. In addition to allowing for highly precise grinding, this inspection is vital for process optimisation. Process optimization capability is the real added value conferred by performing gundrill resharpening in house. Frequent inspection allows for the maximisation of tool life. Shops become familiar with the wear patterns created by a given application and may find they are replacing gundrills too often.

If a gundrill tip has even wear across its entire cutting edge, it could easily have many hundreds of inches of life left, something that will only become apparent with repeated inspections.

In-house gundrill resharpening also ensures that shops can obtain the best tip geometry for their given applications. Whether it is uneven or unexpected wear, or the sudden appearance of chips in the cutting edge, once a shop identifies an irregularity, they can then adjust speeds and feeds to optimise the process.

The inspection equipment even makes working with tooling OEMs easier, since shops can send them a measurement set and picture of a tool when asking for advice on how to improve the geometry.

Further information on all machines and the complete UNISIG machine programme is available at: www.unisig.com or follow the company on LinkedIn and Twitter (@UNISIG).

TÜV Rheinland issues first UKCA certificate to Schmersal

Market access in the United Kingdom: Schmersal Group receives certificate for solenoid interlocks / transition period for British market ends 2022

As a testing body with official recognition by the UK Government's Department for Business, Energy & Industrial Strategy (BEIS), TÜV Rheinland has issued the first certificate for the testing of AZ300, AZM300 and AZM300-AS solenoid interlocks made

by Schmersal in accordance with UKCA requirements.

UKCA stands for United Kingdom Conformity Assessment. Since the UK's departure from the European Union (Brexit), this new marking is required for products sold in England, Wales and Scotland.

The UKCA marking replaces the CE marking used in the EU single market, although the

latter is still accepted for registration on the British market until the end of 2022.

'We were consciously aware of the significance of the British market for many of our customers and of the need to be able to offer rapid and reliable support with the new regulatory requirements as an official testing body,' explains Thomas Steffens,



head of the testing and certification body 'Funktionale Sicherheit & Cybersecurity' at TÜV Rheinland Industrie Service GmbH.

Testing for Schmersal for more than 20 years

TÜV Rheinland has been testing safety switchgear devices and systems made by the international Schmersal Group, based in Wuppertal, for more than 20 years.

The new UKCA certification involves not inconsiderable outlay for product manufacturers. With the team at Schmersal, TÜV Rheinland was able to undertake the recognition process and conformity assessment for UKCA certification of the AZ300, AZM300 and AZM300-AS solenoid interlocks promptly and successfully.

Following a successful pilot project with the AZM300 solenoid interlock, Schmersal will now have additional products systematically certified to UKCA standards, starting with interlocks in other series, followed by electronic safety switches, safety relay modules and safety light barriers.

'Our aim is to have the most common and most frequently requested Schmersal products certified with the UKCA certificate by 1 January 2023 so that our customers can continue to market their machines in the UK in compliance with the rules,' explains Jörg Eisold, head of standards, committees and association works in the Schmersal Group. 'Considering the size of our product range, it's an ambitious timetable. But we hope that we can achieve the goal with support from all third parties involved in the certification process. We had a positive experience with TÜV Rheinland on the AZM300 pilot project, so we're very optimistic.'

TÜV Rheinland certifying since September 2021

Thomas Steffens of TÜV Rheinland adds, 'As a testing body, we know how manufacturers often struggle to develop custom-fit market access solutions that take all conformity requirements into account.' Since September 2021, TÜV Rheinland has been an 'Approved Body', including for the 'Supply of Machinery (Safety) Regulations 2008' Directive, and can thus undertake UKCA certification for manufacturers of safety products in accordance with Annex IV of the Machinery Directive, and thus support access to the British market.

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New Raspberry Pi Compute Module 4 convinces on all levels



The new Pi-Tron CM4 offers greater performance and extensive interface extensions

Kontron, a leading global provider of IoT/Embedded Computer Technology (ECT), launches the Pi-Tron CM4, a new single-board computer based on the Raspberry Pi with a Broadcom BCM2711, 4x Arm® Cortex®-A72 with 1.5 GHz processor, an M.2 slot and many other interfaces. The Automation Line AL Pi-Tron CM4 is available in a housing, allowing for universal application and making it especially well-suited for industrial applications.

The Pi-Tron CM4 is based on the new fourth-generation Compute Module and features the Broadcom BCM2711 4x Arm® Cortex®-A72, 64-bit SoC @1.5 GHz, a significantly faster processor than the previous generation. It has more memory with 1 GB, 2 GB, 4 GB or 8 GB LPDDR4-3200 SDRAM, depending on the variant. There are also options for an eMMC memory with 8 GB, 16 GB or 32 GB available. Additionally, the board offers an optional pre-certified wireless LAN/Bluetooth connection. An M.2 B key slot with PCIe connection enables the use of standard modules with the corresponding interface. For example, individual AI solutions for machine vision and machine/deep learning can be implemented with the very powerful Hailo-8™ AI modules or the Google Coral AI Edge TPU. For the integration into IoT solutions, the Pi-Tron has been prepared to use LTE modules with SIM cards and an external antenna connection.

The range of functions of the interfaces has been significantly expanded. Data exchange with other system components is ensured via the Modbus-compliant RS485 interface. The CAN bus interface is now FD (Flexible Data Rate) enabled, offering more efficiency and a higher data transfer rate. The Raspberry Pi standard 40-PIN GPIO header provides flexibility for industrial interfaces. The Pi-Tron CM4 offers an HDMI slot to use standard display devices as well as an LVDS display connector via an adapter board.

A big advantage of the Raspberry Pi single-board computer is its large community. In addition to many software examples, it provides a large pool of compiled program packages for easy installation. The Pi-Tron CM4 only uses components that are supported by the community software. The large number of expansion modules based on the GPIO header is a valuable part of the Raspberry Pi ecosystem.

Contact www.kontron.com

Are PID controllers still good enough today?

As computational technology advances, the role of the ever-dependable Proportional Integral Derivative (PID) controller has come into question. Processes have transformed, becoming more demanding, leading to the adoption of newer, emerging solutions.

Do PID controllers still have a place in industrial applications? Here, Johann Lainer, senior marketing communications specialist at industrial temperature controller manufacturer Watlow, examines why PID controllers are still a valuable tool in today's industry.

PID controllers have a loyal following for a variety of reasons. The technology is simple to understand, and for many applications, it is effective. However, advancements in controllers can provide several benefits. Modernized controllers may save time by reducing downtime, which

increases production, reducing fuel consumption that saves money or any number of benefits.

But understanding what solution is right for your industrial application can be difficult when there are so many on the market. Watlow, which has manufactured thermal equipment since 1922 that can make this decision easier, by advising on a range of temperature and process controllers including PID models for different processes.

PID controllers have proven to remain a vital piece of equipment in many modern applications, which can be combined with add-ons to provide flexible solutions, with accurate outcomes. But first, it's understanding the specifics and what's right for a system that will ensure the desired results.



Find out more about Watlow's solutions here www.watlow.com




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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.

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The EL-SIE Range



Software-free, next generation data logging from Lascar Electronics

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

Capable of measuring ambient temperature, humidity and pressure, each data logger can store over 1 million readings inside the sleek metal housing. The bright and clear display shows readings and device status at a glance, and the coloured LED indicators and sounder mean the EL-SIE can grab your attention when it needs to.

But the biggest innovation is hidden away in the device itself, the software needed to configure your logger and view, analyse and download the data is all based inside the EL-SIE itself. With nothing to install, simply connect the logger to your PC or Mac and use your existing web browser.

In another breakthrough, the EL-SIE is the first USB logger that can be used with the EasyLog Cloud, giving total peace of mind about the security of your data. Once on the Cloud, the readings can be accessed from any internet-connected device, and also used with EasyLog's powerful online graphing, analysis and report generation tools.

View the range on our website.

Data logging has evolved.

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Quiet fans making noise in the industry

One of the common requirements for fans is low noise, selecting the correct bearing in the fan is key to minimising noise levels. The low cost choice is usually Sleeve bearing, which initially should offer low noise levels. However after some time of operation, due to the nature of the bearing, the fan will become gradually noisier.



At a higher price is Ball bearing, this bearing is preferred for high end applications requiring faster speeds (higher airflow), longer life expectancy and the freedom to mount in all orientations without the risk of premature failure. Ball bearing is however not renowned as the lowest noise option. If low noise is the target there are alternate bearings available.

One example is Sunon patented MagLev bearing, a near frictionless bearing system. One of the key features of this is the use of a magnetic plate to remove the contact between the impeller and the bearing wall. This versatile bearing offers life expectancy closer to a Ball bearing at a cost closer to Sleeve. If located in a harsh environment, then added levels of protection should be considered for the fans. These can start from simple IP21 to fully enclosed IP68 rated fans.

Sunon can also offer environment specific protection, such as GR47 Salt Fog for marine applications. If the correct level of protection is not considered, then the life expectancy of the fan will be compromised. If there is concern regarding fan failure, most are now available with additional wires for Tacho Feedback or Locked Rotor Detection which can alert to any issues.

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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.

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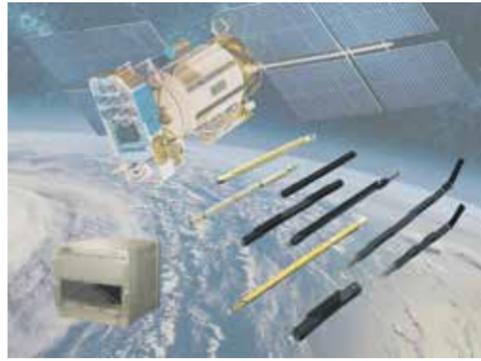


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nVent/Schroff Card-Lok High Clamp Force PCB Retainers

Foremost Electronics, the engineering-led, Essex-based importer and specialist distributor of electromechanical components, can now supply the nVent/Schroff Card-Lok range of innovative high thermal performance and high clamp force PCB retainers for use in rugged environments. The new Card-Lok retainers have been designed to be drop-in replacements for most applications currently using standard Card-Loks and provide on average more than 3x the amount of clamp force compared to similarly sized Card-Loks.

Standard COTS & modified Card-Loks are available to meet a wide arrange of requirements and include designs for second level maintenance including torque limiting and tool-less card locks. With their small and lightweight designs typical applications include industrial systems, defence, space flight, communications, computers and intelligence surveillance.



As more systems are being exposed to increased shock and vibration sufficient printed circuit board retention is critical as are the requirements of SWaP (reducing size and weight while effectively handling increasing power). SWaP is a continuing challenge for defence and aerospace designers and manufacturers and is especially important in airborne applications where weight equates to cost, or for unmanned vehicles where space is a premium.

The need to miniaturise the size of electronics has also been driven by the growing need for devices that can easily be carried over long distances by operators.

For more information on nVent/Schroff Card-Lok High Clamp Force PCB Retainers, call +44 (0)1371 811171 or email: sales@4most.co.uk or visit: www.4most.co.uk

New Kontron COM-HPC® Server Module with Intel Xeon D-2700 processor family for high-end Edge Computing



Server-class performance with PCIe Gen4 and 100 Gbit network connectivity

Kontron, a leading global provider of IoT/Embedded Computer Technology (ECT), launches its first COM-HPC® Server Module COMh-sdID featuring Intel's Xeon D-2700 processors (former codename Ice Lake D). In addition, Kontron also introduces a COM-HPC® Server Evaluation Carrier.

The COMh-sdID with scalability from 4 to 20 cores and SKUs for an extended temperature range and 24x7 / 10 years reliability allows very robust implementations for harsh environments and extreme conditions in a small mechanical footprint.

The module accommodates 4x DIMM sockets for a maximum of 512 GB DDR4 memory at 3200 MT/s. As storage medium, a soldered NVMe SSD onboard with up to 1 TByte storage capacity is optionally available.



With 48x PCIe lanes (32x PCIe Gen4 plus 16x PCIe Gen3 lanes) and 2x Quad LAN interfaces supporting up to 100 Gbit Ethernet, the COMh-sdID is an ideal platform for high data throughput requirements in demanding I/O and network structures.

Delivering scalable performance complemented by Intel QuickAssist Technology and AI acceleration with Intel AVX-512, the module is highly suitable for the usage in complex AI applications, high-performance network platforms and edge servers.

The Kontron COMh-Server Eval Carrier offers a complete set of standard interfaces, such as USB and SATA, as well as 8x SFP28 Ethernet interfaces; thus supporting and optimizing the design-in phase of the COMh-sdID.

The Kontron COMh-sdID module and Kontron COMh-Server Eval Carrier will be available as of Q2/2022.

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Bradshaw releases third-generation T800

As the leading four-wheel 8-tonne tow tractor on the market, the T800 has been a popular model for over 25 years. Used in airports for baggage towing, line feed in manufacturing, waste movement for bin towing, and many more applications. The T800 is a versatile and robust workhorse.

The new T800 retains its robust build, durability and reliability that has made it a firm favourite. The third generation 8-tonne tow tractor from Bradshaw now features electronic steering, enhanced suspension, a new front axle, larger wheels, new brakes, a redesigned cab, and sharp modern looks that provide operators with a market-leading level of ride, comfort, and handling.

Electronic power steering replaces hydraulic steering, offering enhanced steering performance, making it easier for the vehicle to turn and manoeuvre at lower speeds. The use of electric motors over hydraulic systems eliminates the need for a pump, hoses, and hydraulic oil, helping simplify maintenance. The removal of the hydraulic pump has made the vehicle considerably quieter, reducing vehicle noise by 20dB. Furthermore, the T800's steering advancements paves the way for an automated tow tractor!



The leaf spring suspension has been re-configured providing the firmness required for towing applications while providing a smooth and comfortable ride. The new larger pneumatic profiled soft solid puncture-proof tyres provide greater stability, traction and handling.

From the outside, the differences between the second and third generation T800s are obvious. The mark II's curvaceous panels have been replaced with a strong and angular design, matching the design ethos of modern-day automotive design. A redesigned sturdy wrap-around bumper plate protects the vehicle against impacts and damage.

Inside the vehicle, the changes are instantly notable. The soft touch control panels and instruments enhance the working environment, which now includes USB connectors for keeping phones and electrical equipment charged and integrated cup holders.

T800s are available with a range of cab options; uncabbed, cabbed with no doors, cabbed with PVC doors, and cabbed with twin slam doors, allowing the T800 to be configured for a wide range of indoor and outdoor operations.

Efficient towing performance

As standard, the T800 is equipped with a 20mm pin multi jaw tow hitch with various size options, making the 8-tonne tow tractor compatible with multiple trailers. The T800 includes inching buttons as standard to assist coupling, offering ease and precision when aligning tow tractor and trailer.

Batteries

The T800 utilises a powerful 48-volt system, with the choice of four standard batteries; 240Ah, 315Ah or 375Ah lead-acid batteries or a 255Ah gel maintenance-free.

For standard run-time operations, a lift-out battery suits many applications. For extended run-time applications where battery change is an operational requirement, the T800 has the option of a side exit by either forklift or roller bed.



Electronic braking and speed control
Five individual braking systems protect tow tractor and operator. The

T800 features new responsive hydraulic drum brakes to all four wheels and offers increased durability, maximising productivity and reduced servicing costs.

The T800 also includes electronic regenerative braking under deceleration, automatic hill hold, and automatically applied transmission parks brakes for greater safety assurance. The T800 incorporates an AC control system enabling a high level of controller setup, while dynamic speed sensing prevents over-speeding in all directions.

Robust build

The T800, with its solid frame construction and reliable components, ensures long-term reliability and durability. The low maintenance AC traction motor offers more power and performance while simultaneously reducing operating costs, and the built-in thermal protection minimises service downtime.

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Anord Mardix improves network capacity at UK sites

World-leading electrical engineering and manufacturing company Anord Mardix has improved wireless network performance at three of its UK production facilities with high-performance WiFi from Redway Networks. The new Cambium cloud-networking platform is providing uninterrupted communications between Anord Mardix's in-house operations software and over 1,000 mobile devices used by its workforce for scanning equipment on the shop floor.

Due to Anord Mardix's continued expansion and adoption of the latest technology and mobile devices its existing WiFi couldn't support its connectivity demands and its workforce was experiencing WiFi dropouts.

Toby Turner, Group IT Director at Anord Mardix, says, "Our existing WiFi was delivering inadequate coverage which was delaying



getting products out of the door. This highlighted the need to upgrade our existing WiFi to a more up-to-date, resilient wireless

network that would improve efficiencies and future proof the business."

Redway Networks recommended Cambium as its robust cnPilot WiFi technology is 'watertight' & ideal for warehouse environments.

Toby says, "Cambium has given us much better network reliability and we now have great coverage in all our facilities with no black spots, which has definitely improved warehouse productivity. We have one pane of glass for all our network monitoring which has given us more visibility and saved considerable time. I'm really impressed with Cambium and Redway Networks delivered an exceptional service throughout the whole project."

Read the full case study on our website. For more information, contact: info@redwaynetworks.com

Expanding capabilities with storage



From creating the space to store hundreds of tonnes of Pampers nappies to protecting Stella McCartney's couture archives, there is no better name than Whittan to handle all your storage solution needs.

Whittan is an accumulation of eight trusted companies put together through acquisition to form one unified group which for the past five years has been trading under the brand name the Whittan Group. The associated trusted brands include Apex, Link51, Probe, LinkLockers, PolypalUK, HiStore, Storage Direct, and LinBins. From Apex which was founded in 1937 to LinBins who were the latest addition to the group in 2016, each brand has years of experience in the industry and are reliable and trusted amongst customers. Operating out of its five factories across the UK, Whittan also has one other factory in Spain.

The Whittan Group takes pride in being members of the Made in Britain organisation and has been supporting British business and British people for over 70 years. "Our business is split with 75% in the UK and 25% in Western Europe and further afield. We are proud to have such a vast and flexible range of storage solutions that have been manufactured and designed here in the UK. Our trusted brands are well-known and trusted within the UK industry and what unifies us is our reliable service and expertise to create the most efficient storage solutions for our customers," said Jon Templeman, Chief Executive Officer. As a leading UK B2B manufacturer of storage products, including pallet racking, shelving, personal storage lockers, cupboards, plastic containers and workbenches, Whittan design solutions for both industrial and commercial environments including offices, schools, warehouses, and retail environments. All products are manufactured in the UK to ISO 9001, 14001 and 45001 quality and environmental standards.

Whittan also provide a complete service solution including project management, expert installation, maintenance, training and inspection. Every employee of Whittan is trained to an extensive level offering customers an unrivalled quality of service. "Whether it's a whisky company or something completely different such as fashion, we can guarantee we have experience in working with companies from every sector. Our expertise allows us to make measured decisions and offer customers the best solution to optimise their space. Sometimes conventional pallet racking systems are not the most efficient solution. For example, we have worked with various fashion retailers where we have completely transformed the configuration of their storage space by implementing automated garment hanging solutions," said Jon.

A complete rebranding has been important in widening the company's appeal to offer scalable solutions and opportunities for growth to every customer and every environment. With the recent growth of e-commerce since COVID-19, moving into the digital realm was inevitable for Whittan. "Storage Direct joined us in 2001, and we have recently revamped our e-commerce structure. Storage Direct provide a quick, efficient way of ordering your everyday requirements. We noticed a shift in people's buying behaviour and with the advancement of online ordering we believe Storage Direct will be invaluable to business going forward," explained Jon.

After a recent investment into its facilities in Milton Keynes, further investment is going to be key in making future operations more efficient. "After our recent rebrand last year, there are certain areas where we are keen to expand into next; we want to increase our repair and maintenance service, specifically to large building products wholesalers, as they have hundreds of installations in their stores put in by us and others that need continuous upkeep, as well as seeking to grow our business in parts of Europe. We are very excited for the next five years as we begin to see the fruition from the decision to combine all our storage brands, products and solutions within one group," stated Jon.

For more information, see below:
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Visit The Floorbrite Group at The Manchester Cleaning Show



Visit us at The Manchester Cleaning show, 6-7 April, stand D6, Manchester Central.

Nina Wyers, Marketing and Brand Director will also be speaking about Cleaning for Climate Change in the conference zone at 12.30pm Wednesday the 6th of April.

www.floorbrite.co.uk



April, where she will be talking about 'Cleaning for Climate Change' and sharing some of our thoughts.

If you can't make it to the cleaning show, our head offices are based in Manchester and we welcome visitors to our purpose built, state-of-the-art headquarters, training centre and distribution centre. We have built our reputation on creating lasting relationships and have become one of the top 100 commercial cleaning companies in the UK so don't hesitate to call and book a visit.

You can also follow us on all our social media platforms. Take a look at our Instagram page @thefloorbritegroup to follow our services, stories, 50th anniversary events and charitable work to learn more about our team, culture and Floorbrite as a business.

Contact
T 0161 972 3000
info@floorbrite.co.uk
www.floorbrite.co.uk



Nik Wyers and Ruth at the Green Apple Awards 2021

Visit The Floorbrite Group at The Manchester Cleaning Show, stand D6 on the 6th and 7th of April as we celebrate our 50th anniversary this year and find out how our team can transform your daily cleaning, industrial/specialist cleaning or window cleaning services.

You can also challenge our team (at our stand) with your driving skills by taking part in our giant, purpose built, Scalextric Grand Prix. The Floorbrite Group, Driving Industry Standards...

We are no longer just a commercial cleaning company. Over the last 10 years, Floorbrite have expanded across the UK, diversified and evolved our facility services to ensure we are offering the latest in market leading innovations, and targeted environmental solutions are at the top of our agenda.

Since 2015, we have won Green Apple Environmental Awards from The Green Organisation for our unique recycling led waste and environmental management services. If you want to reduce your carbon footprint, this is a good place to start, and our Environmental Consultant can guide you along the way. We also offer a number of innovative eco-friendly cleaning options as a part of our UK wide daily cleaning services.

If you know what you want, we are here to provide it, but if you also need guidance, our team are passionate and knowledgeable and will support your business in making the right choices for you.

We provide daily cleaning, industrial, specialist and window cleaning services. Washroom, hygiene and consumable supplies such as feminine hygiene units, dispensers, toilet paper and hand towel products, soaps and refuse sacks and much more. Our facilities services include waste and environmental management, pest control, plants and grounds maintenance, security and high-level building access solutions using various MEWP's (Mobile elevated work platforms) including our own 30m and 37m cherry pickers, which are available for hire.

If you would like to hear more about the latest environmental innovations then you can also join Nina Wyers, one of Floorbrite's family owners and our Marketing and Brand Director, in the conference zone at 12.30 on Wednesday 6th



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Forteq UK, Precision Plastic Components and Assemblies

In this issue of Industry Update, we have selected Forteq UK as our Precision Plastic Technology Company of the Month.

Established in 1935, Forteq UK Limited are amongst the most experienced technical injection moulding companies in the UK. They are part of the Swiss owned Forteq Group, with manufacturing plants situated in USA, China, Italy, Czech Republic and UK with HQ in Nidau Switzerland.

Forteq UK is located in Huddersfield and specialise in high precision parts for automotive and industrial products, including very precise gears, complex housings and covers, smart metering applications, 2-shot applications, valve assemblies and products with high aesthetic requirements.



Industry 4.0 methodologies are deployed in the "state of the art" moulding facility. They utilise fully integrated 6 axis robotic cells, automated insert sorting and loading, a factory wide material drying system and in-line camera checks for un-manned manufacturing.

Forteq UK offer world class product development services to enable sustainable and reliable precision plastic components. The company has established itself as an integral partner for the automotive and



consumer electronics industry. Forteq manufacture high volume, highly complex, precision-made plastic components and assemblies globally, for use in technical applications.

Forteq UK maintains its in-house toolroom and has its own Group tooling facility in Suzhou China that supports the manufacturing plants globally. They have an assembly facility where operations such as ultrasonic welding, heat staking, milling, leak testing and various other value-added processes can be performed.

The Huddersfield facility operates injection moulding machines from 35 to 420 tonne clamp force and make parts from less than 1 gram up to 1 kilogram.

"30% of Forteq UK turnover is for producing components and assemblies for electric vehicles. Forteq has specialist teams focusing on plastic gears, plastic pump applications and metal to plastic projects," noted Steve Roberts, Forteq UK business development manager. Its automotive customer base is comprised of tier 1 manufacturers for air suspension, battery components, seating, window regulators HVAC, geared actuators, fuel filtration and fluid delivery systems.

Committed to providing a high-quality service, Forteq UK offers unrivalled experience, expertise and reliability and boasts 24/7 support and availability for its domestic and international customer base.

In terms of recent events, Forteq UK has remained open for business during COVID-19 pandemic with only a small impact on turnover. "We have had spells of orders being delayed, but in general, our order book has been good. The biggest impact is the delay of new projects starting which on average is between 12 – 18 months, but in turn, existing production has run on longer than anticipated to balance this," said Steve.

As the company looks toward the future, Forteq UK's strategic target is to grow its business with BEV - Battery Electric Vehicles. Steve explained that, "we see components used on traditional ICE engine cars disappearing from our portfolio thus need to embrace the new components used across BEVs to future proof business."

For more information on the company, please see the details below.

Contact Steve Roberts
T +44 (0)1484 424384
www.forteq-group.com



Test, Measurement, Process & Control Update

Pneumatic Knocker by singold

Problems with flow? Bridging, funnel flow, stagnant zones can be counteracted with a pneumatic knocker, when vibration is not enough.

The pneumatic knocker is used for bulk goods with material flow problems for instance bridging, funnel flow and residue formations, when high speed shakers and vibrators with soft sine-shaped oscillations are no longer effective.

The effect of the knocker is comparable to that of the famous "silo hammer", but without distorted silo spouts additionally impeding the material flow.

The knocker is normally controlled by an electrical control system with a solenoid valve.



Within the area where the knocking takes place there should be enough space for the impact to expand in all directions.

Reinforcements of the silo walls and additional ribs should be avoided, as this increases the weight and the strength of the silo walls and thus reduces the effect of the knocker.

The Pneumatic Knocker produces an ideal elastic shock that is specified as the impact energy $E = m/2 \times v^2$ [kgm/s² = Nm] and as impulse $J = m \times v$ [kgm/s = Ns]. There is no impact force or out-of-balance such as vibrators generate.

The effectiveness of the knocker is evaluated according to the following rule: If the product can be knocked off or made to flow with a hand hammer, the Pneumatic Knocker is also effective.

info@singold-tech.de

New SCARA robot range provides OEMs with integrated control solution for robot, motion and machine automation

The motion-first automation control manufacturer, Trio Motion Technology, has launched a robot range that provides machine builders with a fully integrated control solution. The launch gives OEMs high performance robot control, motion control, and machine automation from a single controller. Trio's new robot range will speed up development time and increase reliability for machine applications that require robotic integration.

Trio's new SCARA (Selective Compliance Assembly Robot Arm) robot range has been designed to optimise productivity and control for applications including pick and place,

assembly and dispensing. This makes the range highly suited to industries including electronics manufacturing (3C), packaging and material handling.

The range comprises four SCARA robots that extend from a 400mm arm range and a 3kg maximum load capacity, through to a 700mm arm range and a 6kg maximum load capacity.

"Integrating robot, motion and machine automation into a single controller enables faster development for the OEM," says Tom Alexander, President, Trio Motion Technology. "Crucially, it means reduced field downtime for their customers, giving machine users increased productivity."



Trio is presenting its new SCARA robot range at the Drives & Controls exhibition at Birmingham's NEC on 5th to 7th April 2022, Stand E120.

www.triomotion.com

Ewellix

Ewellix has developed a smart electro-mechanical actuator with extended functionality, for use in demanding applications such as agricultural and construction machinery.

Compared with earlier models, the smart actuator CAHB-2xS offers four new or enhanced features – in control, accurate position sensors, built-in monitoring/diagnostics and communication. It also offers a typical MTTF (mean time to failure) of 75 years.

"The CAHB-2xS adds smart control functions, sensors and communication to equipment and machinery, says François Ducourant, business development manager at Ewellix. "It's the first in a family of new products that are part of the Ewellix SmartX digital platform to help customers in their journey towards digitalisation."

The actuators have a wide range of potential applications. These include agricultural equipment, construction machinery and materials handling equipment. They can also be used in work platforms and scissor lifts, and in electric vehicles such as utility task vehicles (UTV), road-sweepers and buses. One example is an autonomous mobile robot (AMR), which



could use four actuators to lift heavy loads in a horizontal plane. Alternatively, a combine harvester might use dozens of actuators – connected to an electronic control unit (ECU) to ensure correct process control, information feedback, and onboard diagnostic function.

Uk@ewellix.com

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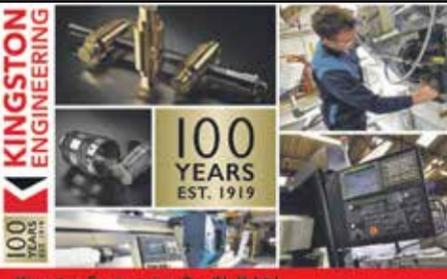
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