

# INDUSTRY UPDATE

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## Inside this Issue



**Innovative and Sustainable Coding and Marking Solutions**

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### DataLase

Print & Packaging Update  
See them on page.....10



### UNISIG

Manufacturing Update  
See them on page.....15-18



### Wiesner Hager

Company of the Month  
See them on page.....24



### Perfect Control

Company of the Month  
See them on page.....30

## Contents

- 4** Health & Safety Update
- 6-9** Chem UK Preview
- 10** Print & Packaging Update
- 12-14** Electronics Update
- 14-15** Deephole Drilling Update
- 15-18** Manufacturing Update
- 20-21** Digital Manufacturing & Smart Factory Expo Review
- 22-23** Oil, Gas & Offshore Update
- 27** Process Control Update

## Coffee Planet

Coffee Planet was established in 2005 on the Arabian Peninsula - where coffee roasting began - some 500 years before. We were originally a provider of freshly ground coffee and fresh milk vending machines for petrol station convenience stores.



In 2007, our business expanded to offer complete coffee solutions to leading five-star hotels, restaurants, catering companies, airlines and offices.

We opened our roastery in 2008, taking total control of roasting our 100% Arabica specialty coffee blends and single origin coffees.

In 2009, we launched our first franchised café concept in the UAE, while 2011 witnessed our expansion into other International markets.



We are now proudly represented in more than 20 countries across the GCC, Asia and Europe, with café operations in the UAE, Pakistan

and the United Kingdom, with deals signed to open in KSA and Oman.

Currently, Coffee Planet is the largest specialty coffee roaster in the Middle East, employing over 200 staff. We plan to keep growing until everyone in the World has the opportunity to experience and enjoy our 100% Arabica specialty coffee. Most recently we have entered the RTD market with the launch of our new Nitro Cold Brew Coffee range, an innovative product and first of its kind in the Middle East.

Our business is solution-focused, providing our customers with roasted coffee, green coffee, powdered drinks, sugar, syrups, among other consumables and coffee machines. Our 360-degree approach also includes training and a dedicated service and maintenance team.

[www.coffeeplanet.com](http://www.coffeeplanet.com)



## Proximity probes with direct 4-20mA output for machinery Shaft Vibration Monitoring

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

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

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

this technology into the IN-08x displacement sensors for many years now, but now this is available with a direct 4-20mA output.

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

The transmitter can be connected to a DCS, PLC or any number of other 4-20mA receiving devices such as digital display, data loggers, via the current loop. Two extra wires on the sensor provide a buffered voltage signal output to a portable monitoring system for external data storage and analysis. A two-channel connection module Type

AC-2140 is available for use with a loop-fed transmitter which also provides a dynamic signal for test purposes. It allows connection of the transmitter to a programmable logic controller (PLC) or a process line system (PLS). The dynamic signal is made available for analytical purposes over test connections or a BNC socket.

The DT-12x series of displacement transmitters is just one of Brüel & Kjær Vibro's comprehensive monitoring solutions that comprises all kinds of vibration sensors (acceleration, velocity and displacement), vibration monitors, handhelds and rack-based plant-wide integrated monitoring solutions. These products, plus a suite of services, fulfil the most demanding applications for safety, condition and performance monitoring of rotating machinery. Monitoring in the hydrocarbon processing, conventional power,



hydropower and wind power industries is a strategic area of focus.

Based on 60 years of experience and a world-wide sales and support network, Brüel & Kjær Vibro's monitoring solutions have successfully reduced downtime and maintenance costs and increased machine reliability for customers world-wide.

Product flyer & data sheets can be downloaded at:  
[www.bkvb.com/en/products/vibration-sensors/vibration-transmitter-dt-12x.html](http://www.bkvb.com/en/products/vibration-sensors/vibration-transmitter-dt-12x.html)  
A launch video can be viewed via:  
[www.youtube.com/watch?v=dZOJPVgnBPO](http://www.youtube.com/watch?v=dZOJPVgnBPO)

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## Making cleaning work for the public sector

Jean-Henri Beukes, Managing Director of Ecocleen, looks at the challenges facing the public sector and how cleaning companies can become part of the solution.



The public sector has been under immense budgetary demands in recent years, so support services, including cleaning, have had to bear the brunt of cost cutting exercises. With margins already tight, it is more critical than ever for cleaning contractors and public sector organisations to work closely together to maintain service standards while maximising efficiencies and avoiding unnecessary overheads.

One of the biggest challenges for the public sector moving forward will be in realigning their expectations with regards to what is achievable with the available budgets. The recent struggles faced by high-profile businesses within the wider facilities management sector has underlined the dangers of promising too much for too little simply to win contracts and boost turnover. But this should be where a cleaning contractor can provide guidance and get creative to develop a cleaning operation that is appropriate for the precise needs of a site or building.

### Understanding requirements

By taking the time to understand requirements, it is possible to prioritise and make better use of cleaning resources. There are some areas – such as toilets and public areas that experience the greatest footfall – that will always require greater attention, but there will be other rooms and spaces that could be cleaned on a less regular basis, perhaps weekly rather than daily. “This is how we’ve always done it” should never be justification for doing something – there are definitely wins to be had by reviewing an operation and challenging the status quo.

Clever thinking – such as taking advantage of practices that are increasingly commonplace within the private sector – can drive considerable operational improvements. One such technique is replacing personal bins with a centralised bin system, which can improve performance in a number of ways. It will typically minimise plastic bag usage and increase in recycling by as much as 30% – offering a clear environmental benefit – but at the same time reduce the time required to empty all the bins and change the bags.

Targeting small incremental gains across a cleaning operation is also an effective way of achieving material efficiencies without resulting in any noticeable drop in standards. Making staff responsible for taking used cups to the kitchen or keeping their desk clear at the end of the day, may only save a matter of minutes each day for the cleaning team, but over the course of a week, month or year this represents a significant saving.

Some initiatives may however require a level of engagement with the customers and their staff to explain the reasoning behind them and attempt to alter mindsets regarding individual responsibilities. From experience, people tend to be more open to change if they are kept informed and treated like key stakeholders, so communication is essential to gain buy-in and improve the chances of success.

### Be realistic

Pragmatism is needed wherever possible to ensure a public sector customer receives the desired service levels, while the contractor can remain competitive and deliver the contract sustainably. Having all-year-round cover for cleaners, for example, can be a costly overhead, but if a public sector organisation has complete trust in their cleaning partner it should be possible to take a flexible approach to workforce management. Having a well-paid team is a proven way of retaining the best cleaners, especially when staffing pressures are only likely to increase moving forward, as well as boosting productivity and quality service delivery.

In addition, the lack of tender experience within the public sector is forcing many organisations to turn to specialist third-party management businesses at a significant cost. Most cleaning contracts are above the OJEU threshold which has resulted in the outsourcing of the procurement process. If this requirement could be handled more in-house, with perhaps increased guidance from central government, then significant sums could be freed up to invest in the cleaning operation or minimise the impact of future cuts.

The budgetary constraints faced by the public sector is not going to go away anytime soon, so contract cleaning companies must work alongside customers to better manage contract specifications and expectations. Being open and transparent will enable contractors to implement cleaning operations that are fit for purpose while overcoming the cost challenges faced by these organisations.

T 0800 612 6756  
enquiries@ecocleen.co.uk  
www.ecocleen.co.uk

## Pressure measurement for safety critical applications

Variohm EuroSensor's SMO3100 series pressure sensors are now available with SIL 2/PLd functional safety. Aimed at safety-critical pressure measurement tasks for gas and liquids compatible with stainless steel or titanium wetted parts, the new SMO3100 PLd will allow users the ability to meet SIL2 functional safety levels on machines and systems. The robust and durable sensor series is available in twenty pressure range versions from 0.5 to 5000 bar and with best accuracy to 0.5% F.S.

Based on a piezo resistive sensing element and latest ASIC circuitry and providing high precision linearity and repeatability, the SMO3100 PLd features a 4...20 mA output from a 10 to 32 VDC supply. Its high strength 304 stainless steel housing offers excellent durability in demanding industrial machinery applications. Standard environmental protection meets IP67, and IP69K is optionally available. With the standard version's well

proven use in demanding environments such as motorsports, off-road vehicles, construction equipment and agricultural machinery, the sensor boasts a high shock and vibration resistance together with a generous over-range and burst pressure specification of 2x and 5x respectively. Rated life is 10 million pressure cycles and an impressive 100 year MTTFd factor demonstrates its excellent endurance. The SMO3100 PLd includes a measuring medium temperature range of -40 to +125 °C with a compensated range from -20 to +85 °C.

The SMO3100 PLd version brings DIN EN ISO 13849-1 Performance Level d (PLd), enabling ECU and other safety controlled systems to meet IEC 61508, 61511 and 62061 standards for Safety Integrity Level (SIL) 2 functional safety on machines and system. The sensor detects internal failures within a predefined diagnostic range for its output signal. Internal

failures include broken bond wires, internal EEPROM errors and internal watchdog errors.

As with the standard SMO3100, the PLd version is available for absolute, gauge and vacuum pressure measurement. Port configuration options include most commonly required types in NPT, UNF and metric thread sizes with the electrical interfacing covering cable and connectors for DIN EN175301-803, M12 and Packard Metripac. The new SMO3100 PLd series is covered by a new datasheet available from Variohm EuroSensor's website.

www.variohm.com



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## Haydale Graphene Industries plc

Haydale has launched a range of graphene-enhanced prepreg material for lightning-strike protection, utilising functionalised nanomaterials to improve the electrical conductivity.

The material has been developed in collaboration with Airbus UK, BAE Systems, GE Aviation and Element Materials Technology Warwick Ltd, within the NATEP-supported GraCELS 2 project where the first iterations of materials were developed and subjected to lightning strike tests. The consortium is now looking to manufacture a demonstrator component using the materials developed to establish composite manufacturing protocols as a showcase part for commercial purposes.

This prepreg material delivers a new generation of carbon fibre-reinforced composites having improved

electrical conductivity. These materials can be used for structural components as well as for enclosures for the electronic avionics systems.

The materials developed have potential applications with regards to UAVs (drones) along with commercial aviation in general, and space applications. This technology has additional applications with regards to wind turbine blades particularly in offshore locations which are susceptible to lightning strike.

An electrically conductive masterbatch is also commercially available and the Haydale team has been working with customers to test the capability achieving significant results over existing materials.

For more information please visit: [www.haydale.com](http://www.haydale.com)  
Twitter: @haydalegraphene



## Corrosion protection

Corroserve has repaired and provided corrosion protection for a 36in inlet flow valve which has been in service at Ladybower Reservoir in Derbyshire for more than 60 years.

At its Leeds factory, Corroserve abrasive blast cleaned the valve's internal and external surfaces in accordance with ISO 8501-1 Sa2½ to remove corrosion and provide a surface profile suitable for subsequent coating.

Multiple coats of Polyglass VEF were applied to internal surfaces to achieve a minimum of 1000 microns dry film thickness. Two coats of Plasmet ZF and a topcoat of Corrothane API were applied to the valve externals. Thickness and spark testing were carried out to ensure the quality of the coating work.

The contract was completed on schedule and the customer can expect a fast ROI due to reduced valve maintenance needs.

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## Dr Ulrich Nass becomes CEO of NSK Europe

The Board of Directors of NSK has announced the promotion of Dr Ulrich Nass to Chief Executive Officer of NSK Europe. His appointment is effective as of 1st October 2019.

Dr Nass was also appointed Vice President of NSK on the same date. Since taking over as Chief Operating Officer in February 2019, he has initiated the transformation of NSK Europe for the future.

"On behalf of everyone on the Board of Directors," said Masatada Fumoto, his predecessor, "I congratulate Dr Nass on his appointment and would like to wish him all the very best and every success in his new key position for the future development of NSK Europe and mastering the tasks that lie ahead."

Masatada Fumoto had joined NSK in 1984 and was appointed Chief Executive Officer of NSK Europe in April 2018. He will continue his assignment as Executive Vice President of NSK and Head of Automotive Steering & Actuator Division HQ.

NSK is a global organisation researching, designing, and manufacturing Motion & Control solutions supporting essential mobility and industry applications. The company is currently the top supplier of bearings in Japan, and it is also the third largest supplier in the world by market share.

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## Easier hearing tests at work



**W**orkScreen, the new user-operated audiometric test system, makes hearing tests - and compliance with Noise at Work Regulations - easier than ever.

Tom Parker, Director of WorkScreen, says consistent results require no specialist training and that the wireless, rechargeable, go-anywhere system is designed to improve access to this important health check.

"Hearing tests are legally required for staff working in noise, to control Noise Induced Hearing Loss. Checks are also vital to understand worker's hearing

ability, helping manage risks in the workplace. The attraction for our clients is lower costs, better scalability and flexibility - you can take a test at any time for any number of people and arranging a test is as easy as making a phone call."

"Our aim is to ensure everyone who needs a hearing test at work gets one, which is why we are proud to be a founder member of the UK Hearing Conservation Association."

**T 0117 230 1717**  
**www.workscreen.co.uk**



## Abrasion resistance, dexterity & comfort

**A**brasion resistance, grip, dexterity and comfort combine in the Olba glove from Tornado.

Olba achieves the highest score for abrasion resistance rating in the EN388:2016 test. The fine, yet robust construction can withstand at least 8000 abrasion cycles. Users can handle objects with rough edges or work on coarse surfaces without fear of damaging their skin.

Olba fits snugly to the contours of the hand. It is constructed using a very fine yarn on a precision knitting machine.

The result is a flexible glove that enables small components to be handled and fingers manipulated easily into narrow spaces.

In addition, the wearer can grip large, abrasive items and switch between tasks without changing

or removing gloves.

Olba's Tornado's anti-bacterial technology transmits an anti-bacterial conditioner onto the hand during use. This kills germs, conditions the skin and helps to control unpleasant odours.

**T 0115 961 9555**  
**www.tornadogloves.com**



## Burton McCall

**A**safety workwear boot designed and manufactured to withstand the harshest of conditions and is suitable for wear in all weathers, waterproof, windproof and breathable. A composite protective toe cap and Kevlar perforation resistant insole, ensure Brightboot are 100% metal free and anti-magnetic. Built by hand using the highest quality materials available.

Brightboot is innovative, combining the ultimate safety with high visibility and is in line with safety standard EN ISO 20345:2011. The addition of retro reflective segmented silver bands and other retro reflective elements, ensure that the wearer will remain visible in low light, sunlight, adverse weather conditions and at night (from an illuminated source).

Brightboot is available in 3 sizes, Tall (below the knee), Mid (mid calf) and Low (above the ankle).

Brightboot, the world's first high visibility safety workwear boot for men and women.



**UK Distributor - Burton McCall Ltd**  
**T 0116 234 4611**  
**sales@burton-mccall.com**

## Latest fume extraction systems

**N**ew from Wilkinson Star is the F-Tech Fume Technology range of high vacuum fume extraction systems and welding torches.

The F-Tech Armour is a high vacuum mobile dust extraction system that extracts dust from manual welding and grinding processes. With high performance motor, choice of 3m suction Armoflex or Armotech cantilever arm, and user-friendly digital panel with hour meter and clogged filter alarm, it offers £12 99.5% filter efficiency and comes with 5-year warranty on 110 and 230V models.

The portable F-Tech Pocket extracts and filters fumes from welding processes, micro dust, vapours and odours. Weighing 20kg, it has a long handle and a 2m hose with plastic extraction nozzle, Filter efficiency is £12 99.5%; and it comes with 2-year warranty.

Wilkinson Star is UK and Ireland importer of AER Service equipment, manufactured in Italy.

**T 0161 793 8127**  
**www.wilkinsonstar.com**



## Helmet combines protection

**T**he Evo Vista Dualswitch helmet provides the perfect solution and protection for those needing both head protection and eye protection.

Combining the new Evo Vista retractable eyewear helmet technology with the innovative Dualswitch chinstrap harness system, it is easy for the wearer to switch between working at ground level standard EN397 and working at height safety standard EN12492 by flicking a switch.

At the same time, the Evo Vista Dualswitch helmet provides individuals with compatible integrated Optical class 1 eye protection which is fully retractable when not in use and cannot be lost by the user or damaged on site after issue. Wearers can wear their own spectacles under the lens or shield saving additional costs to companies for prescription safety eyewear.

**Contact**  
**www.jspsafety.com**



## Aico

**A**ico, an Ei Company, are the UK market leader in Fire and Carbon Monoxide (CO) protection, leading the way in home life safety by pioneering new technologies and offering high quality alarms, developed and manufactured in Ireland. All Aico alarms meet UK standards and offer a variety of sensor types to guarantee protection for every home, the cornerstone of which is delivering quality, service and innovation.

Stemming from this ethos of innovation, Aico has launched the SmartLINK Gateway to provide a groundbreaking solution for Registered Social Landlords to have access to real time data insight into the status of the Smoke, Heat and Carbon Monoxide alarm systems across their entire housing stock. Using its built-in GSM data connection,



the Ei1000G utilises Aico's next generation of wireless technology to report events including Fire/CO activations and alarm head removals as they happen to the SmartLINK cloud portal, for full visibility and remote monitoring. The Ei1000G SmartLINK Gateway aims to improve efficiency, reduce costs, aid with forecasting and compliance and enable smart asset management. The SmartLINK Gateway will revolutionise the way in which alarm systems are managed, paving the way to a solution-focused approach to asset management.

**enquiries@aico.co.uk**  
**www.aico.co.uk**



## A New Year's Revolution in tenant safety

No more time consuming and expensive manual checks. No more updating endless spreadsheets. Minimise your requirement to constantly access your resident's properties, causing less disruption for you and them. Now, checking fire and carbon monoxide alarms are working to protect your tenants will be easier, less costly and more efficient - with the innovative Ei1000G SmartLINK Gateway from Aico. Visit [www.aico.co.uk/EI1000G](http://www.aico.co.uk/EI1000G).



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### UK's Leading Exhibit for the Chemical Industries



CHEMUK is the UK's only trade show dedicated to the UK's chemicals, biochemical, chemicals processing and chemical product formulation industries. CHEMUK 2020 – Supply Chain Expo and Speaker Programme is taking place across two days, on the 13th and 14th of May 2020 at EventCity in Manchester and is free to attend, with additional

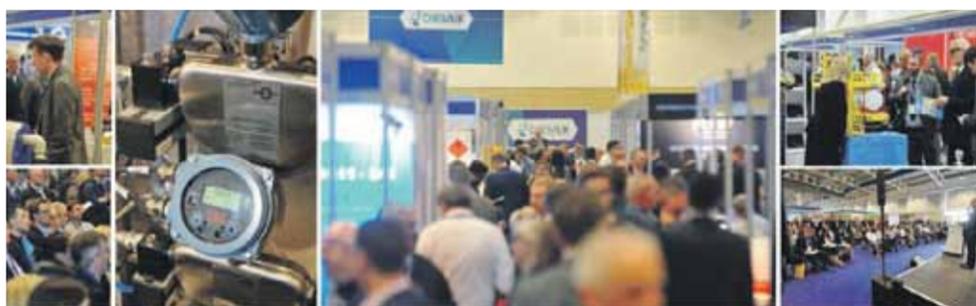
free parking.

Welcoming over 2,500 specialist businesses from the UK's chemical industry, CHEMUK brings everyone together under one roof and showcases the latest innovations in the chemical industry including equipment and apparatus, raw materials, chemicals, intermediates and consumables,

sub-contracting and business services and much more.

A new feature for CHEM2020, the expo will increase the exhibits space and speaker programme coverage, relating to Specialty Chemicals, Ingredients & Raw Materials supply chain & sourcing.

[www.chemicalukexpo.com](http://www.chemicalukexpo.com)



Pulsar Process Measurement Ltd manufactures and supplies level, volume, open channel flow, pipe flow, sludge interface measurement and pump control instrumentation.

Pulsar is a world leader in non-contacting level measurement with tens of thousands of installations worldwide. The success of the business has been built on reliable, repeatable measurement systems that have made difficult or seemingly impossible measurements a reality.

Radar and non-contacting ultrasonic measurement are complementary non-contacting technologies – measuring level by signal analysis but excelling in different situations.

90% of control applications will be solved with ultrasonic level and flow measurement. But for the other 10% where there is persistent foam or an atmosphere high in carbon dioxide or other

gases, or where there are extremes of temperature change, our customers can now make that choice between dB Ultrasonic measurement and FMCW Radar. Both technologies are retrofittable with controllers that are already out in the field, so installation of either technology could not be simpler!



Come and see us on stand F21 to see both of our world leading technologies in action.

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**www.pulsar-pm.com**

### Suurmond UK looks to replicate success of ChemUK 2019



After a successful time at ChemUK 2019, with plenty of leads generated and interest from quality visitors, Suurmond UK will be exhibiting again at 2020's event.

Suurmond UK was incorporated in 2004 as a partnership between the owner of Suurmond Group

(established in the Netherlands since 1975) and Laurence Fletcher.

"We started out as a distributor for two main pump companies: Maag Pump Systems and Gather Industries. Initially, our business was just pumps and spares, but in recent years we have evolved into something more, and we now

design and build custom dosing units and skids for a wide range of industries," Laurence explained.

Boasting an enviable client base, Suurmond supplies its pumps and equipment to numerous multinational companies, including BASF, Akzo Nobel, Beardow Adams, Dow Silicones, and Pirelli to name a few. Offering the highest standards of precision and reliability, Suurmond is dedicated to finding a solution that will work, no matter what the application.

Make sure you visit Suurmond UK at stand E10 at ChemUK 2020 to find out everything they have to offer.

**Contact**  
**T 01386 423756**  
**info.uk@suurmond.com**  
**www.suurmond.com**

### Maker and Rakem

rakem.

MAKER

Maker and Rakem are part of the Rakem Group, a group of companies specialising in chemical distribution and manufacturing. Rakem have distributed quality chemicals and pigments to the coatings, plastics and construction industry for over 20 years. Experts in white pigments, Rakem supply the coatings industry with Titanium Dioxide, Calcium Carbonate, Blanc Fixe and water-based polymers. Maker is Rakem's complementary sister company. Maker are experts in blending white pigments and powders. Servicing the paint, paper and technical coatings sector their water-based blends are of the highest quality. Offering solutions to the coatings industry Maker are an established toll manufacturer.

[www.rakem.co.uk](http://www.rakem.co.uk)



Whether studying the chemistry of life, or developing the advanced science behind modern technology, chemical scientists use their expertise to improve our health, our environment and our daily lives.

Collaboration is essential. We connect scientists with each other and society as a whole, so they can do their best work and make discoveries and

innovation happen.

We publish new research. We develop, recognise and celebrate professional capabilities. We bring people together to spark new ideas and new partnerships. We support teachers to inspire future generations of scientists. And

we speak up to influence the people making decisions that affect us all. We are a catalyst for the chemistry that enriches our world.

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**www.rsc.org**  
**Come meet us at stand E37**

### Polaris Controls

Polaris Controls bridges the gap between our customers and industrial manufacturing partners by providing outstanding customer service and full sales cycle support in the Oil & Gas, Petrochemical, Chemical, Water/Wastewater, Energy and other industries.

With over 55 combined years of manufacturing and sales experience, we leverage our industry knowledge to provide customers with application-appropriate instrumentation, analysers and system solutions at all stages of design, construction and upgrade installations.

Polaris Controls works with EPCs, End-Users, OEMs and Manufacturers providing both standard and bespoke

pressure, level, temperature, flow, interface, process analytical and sampling system solutions. We also offer nuclear-qualified pressure, temperature and level products.

At Polaris Controls, we also understand the vital role resellers fulfil in the commercial process and we are happy to collaborate on pricing terms and conditions by developing strategic partnerships.

To offer a high level of focus and technical expertise, Polaris Controls purposely works with only a select number of manufacturers: proudly representing SOR Group, Knick Interface and Knick Process Analytics.

**Visit our website at**  
**www.polariscontrols.co.uk to review specific solutions for your challenging applications or stop by our booth at ChemUK to talk to Michelle; we would love to work with you!**

### KSB at ChemUK 2020

Established in Germany in 1871, KSB has nearly 150 years' experience of manufacturing pumps, valves and automation and is recognised as a world leader. KSB is one of the largest pump manufacturers in the world with an unrivalled product portfolio. In addition to manufacturing pumps, KSB is well known for producing valves and automation equipment. With activities in many different industries (Water, wastewater, energy, building services, process, oil & gas, food and beverage), KSB currently has 34 manufacturing sites globally.

At KSB Ltd in the UK, specialised sales staff takes care of customer's needs, while full aftersales support is offered, including repair, maintenance, installation, testing and commissioning. To improve, KSB invests 2% of current turnover (Over €2 billion) back into R&D.

Recently, KSB invested in one of the largest, most advanced pump test facilities in the world at the factory in Halle, Germany, capable of testing pumps up to 10MW, with a maximum flow of 18,000m<sup>3</sup>/hr and heads up to 640m.

Long established relationships with many customers bears testament to the brand's reputation for quality and reliability, making KSB a trusted partner with a long history of supplying equipment throughout the world.



**KSB Mega CPK Chemical Process Pump with IE5 SuPremE motor and PumpDrive Motor mounted Inverter**

Come and visit us at stand H36  
[www.ksb.com/ksb-en](http://www.ksb.com/ksb-en)





Raytec are the global technology leader for Hazardous Area LED Lighting. We manufacture a full range of globally certified SPARTAN Ex luminaires to provide a solution for any application where there is risk of an explosion due to gas or dust.

Raytec have two offices located in Northumberland, UK (HQ) and Ottawa, Canada, and all Raytec products are UK designed and manufactured in-house. Founded in 2005, Raytec have an unparalleled background as the world leader in LED lighting for safety and security. We've used this expertise to create SPARTAN.

SPARTAN luminaires revolutionise Hazardous area lighting, offering the most maintenance friendly solution on the market and allowing much easier access and inspection. Our range of Intelligent Emergency luminaires

take the safety and performance of emergency luminaires to the next level. Featuring a microprocessor, these new products automatically self-test to ensure the luminaire is operating correctly and functioning at its optimum.

All Raytec products are ISO9001 and ISO14001 certified and are distributed



SPARTAN Intelligent Emergency products

to over 70 countries world-wide in some of the most challenging environments. We're so confident in the quality and performance of our products that they all come with a 5-year warranty.

T +44 (0) 1670 520055  
hazsales@raytecltd.com  
www.raytecltd.com



With over 20 years' experience ISS Projects (UK) Ltd (Stand H28) provide specialist Liquid Level Management solutions to industry throughout the UK and Europe. We design, install and upgrade all types of tank gauging systems and provide planned preventative maintenance and annual calibration/validation services.

Our safety professionals can design and verify Safety Integrity Level (SIL) systems and have experience of working in conjunction with the Health and Safety Executive on top tier COMAH sites.

Our Independent High Level Alarm/Overfill Protection Panel can form part of a Safety Integrated Function (SIF). All our panels are designed, built and

tested in house with the exception of the remote telemetry units.

For remote telemetry we use off the shelf units and we build bespoke solutions giving real time levels, alerts and trending using GSM technology to provide seamless integration with existing site infrastructure

ISS can provide a complete gauging solution utilising any type of sensor and displaying medium, allowing real time information to be shared via LAN or WAN with alerts via text or email.

ISS aim to provide a fast, efficient, reliable and safe service to all our customers.

www.issprojects.co.uk

## British Adhesive & Sealants Association



BASA is one of the most active technical adhesives and sealants associations in Europe, providing high value and contributing to business performance for its members. With

membership increasing each year, we provide an extensive library of information and advice on the importance of regulations and standards for the adhesives and sealants industry in the UK and Ireland. This is underpinned by active technical and business programmes and every year more than 600 staff from member companies participate in BASA activities and more than half the membership are involved with our working parties.

The aim of BASA is to be the umbrella organisation for adhesive and sealant manufacturers in the UK and Ireland, including the supply chain and service and equipment suppliers to the industry. BASA supports its members



BRITISH ADHESIVES & SEALANTS ASSOCIATION

by representing and promoting the industry, offering guidance on technical and compliance issues and providing networking opportunities for members. A free Croner business helpline, REACHReady discounted membership, insurance, finance, recruitment and testing benefits and FEICA affiliation are part of your subscription each year. Members can promote their business through the BASA website, with a free company profile listing in the handbook every year and through sponsorship at events.

www.basa.uk.com

## Flux Pumps

The electric barrel pump was invented in September 1950 in Stuttgart and patented under the FLUX name. 2020 sees us celebrate the 70th anniversary of the Flux electric barrel pump. 70 years of innovation and expertise has seen Flux grow into a leading manufacturer of pumps, motors, flowmeters and liquid dispensing systems. Our innovations have improved the speed and safety of fluid transfer applications across the globe.

By choosing Flux, you are making a good decision for your business and the environment. Our class-leading products are designed to save time and money – Flux is proven in the world's toughest applications. All Flux products are manufactured and tested at our factory in Germany. Our products are repairable and serviceable. All parts available to buy as spares. A Flux pump will provide you with the lowest cost of ownership over the

lifetime of the product.

FLUX UK offers solutions for any drum or IBC transfer application, from dispensing flammable or aggressive chemicals, to grease and pastes from 200l drums. Ask us about our programmable one-touch dispense systems. Improve speed, safety and accuracy. Minimise waste and increase profitability. We work closely with our customers to deliver the optimal solution, every time.

T 01202 823304  
www.flux-pumps.co.uk



British Adhesives & Sealants Association

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With membership increasing each year, we provide a mine of information and advice on the importance of regulations and standards for the adhesives and sealants industry in the UK and Ireland. This is underpinned by an extremely active technical and business programme and every year more than 600 staff from member companies participate in BASA activities and more than half the membership are involved with our working parties.

Visit Stand E48 to talk about membership



www.basa.uk.com



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## LAUDA Technology Ltd

LAUDA Technology Ltd provides class-leading expertise for applications requiring precise heating and cooling solutions, ranging from -150°C to +550°C. Applicable to multiple product stages, from research and design through to pilot plant, full production lines and quality control, LAUDA Technology Ltd focuses particularly on automotive, aerospace, chemical, biotechnology, pharmaceutical, medical, digital printing and food and beverage application solutions, amongst others. Highly robust, feature-rich, industry-compliant solutions set us apart, whilst a reassuringly low total cost of ownership throughout the equipment life provides for a tangible return on investment.

With a 64 year history, and a dedication to innovation and portfolio expansion, recent new products include laboratory freezers, shakers, incubators, and water stills building on the already highly-capable product portfolio of process circulators, circulation chillers, water baths, tensiometers, viscometers, and contact angle measurement, providing heating, cooling and measurement solutions throughout the product lifecycle stages.

Innovative new product features include remote access via a smartphone or tablet, enhanced cooling capabilities and energy savings of up to 50% compared to similar products, additionally the new water chiller range is fully compliant with the new Ecodesign directive.

T +44 (0)1780 243118  
info@lauda-technology.co.uk  
www.lauda-technology.co.uk

# New autarkic VEGA sensors – the key for IoT in logistics and production

## Level measurement has never been so simple

The Internet of Things (IoT) is currently revolutionizing the entire world. Logistics is one of the areas where it is especially picking up speed. Here, comprehensive networking of goods and IT infrastructure along the entire supply chain offers a lot of untapped potential: From warehousing to ordering processes to transport. Optimizing the supply chain therefore brings real competitive advantages. At the same time, it can help to noticeably reduce costs.

The core of the Internet of Things is the data exchanged over a growing communications network. It serves as a decision-making basis for improvements. For this reason, IoT relies on sensors that provide the required data. However in most logistics systems the sensors are located in places and positions where the power supply for devices cannot be obtained from a fixed source.

## Autarkic sensors for optimized logistics

VEGA is now developing a completely new series of measuring systems especially for these situations: Autarkic level sensor systems based on powerful 80-GHz

radar technology. The new autarkic radar sensors will be available on the market from mid-2020 – optimized for logistics or control processes. Energy efficiency was at the forefront of this development. Measurement performance, wireless data transmission and energy consumption are perfectly matched to each other for this purpose. In combination with optimized measuring cycles, the batteries can provide energy management that ensures up to 10 years operation.

The stand-alone sensors from VEGA are wireless, inexpensive, flexible and reliable – and can be installed quickly via plug-and-play. They can therefore be used reliably in a wide variety of scenarios, wherever levels have to be measured. Regardless of whether the measurement involves storage containers with chemicals, containers with cleaning agents that have to be replaced regularly or residual material containers waiting for collection.

## Ideal for IBC containers

The autarkic VEGA sensors can be quickly and easily mounted on IBC containers. Thanks to radar,

measurement from the outside is possible, so the IBC plastic vessel does not have to be opened or modified. Installed in a few simple steps, this solution can remain permanently on the container and transmit the respective level status, whether in the plant or during transport. Even when stacked high, the autarkic VEGA sensors detect the current level and position in each individual container several times a day – and transmit the data wirelessly to the cloud.

## Accessible everywhere

The connection is also modular: At the moment, the standards NB-IoT and LoRa are supported.

VEGA relies on a multi-communication model: The sensor is equipped a choice of low-power wireless standards and selects the one that's available in each respective situation. At the same time, future standards can also be implemented quickly.

The combination with VEGA Inventory System brings additional potential: This visualization and logistics software determines the optimal order quantities

and future planning targets on the basis of the data obtained autonomously. The autarkic VEGA radar sensor offers many other smart options. For example, the measurement data can be easily integrated into other platforms and systems.

More information available at [www.vega.com](http://www.vega.com)



**Especially in logistics processes, level sensors are often required in places where electricity cannot be obtained from a power socket. In these instances, the new autarkic VEGA radar sensors are the ideal solution.**

## Grotech builds for the future

An ambitious bespoke contract manufacturer and packer Grotech Production Ltd is busy building for the future.

Specialising in the production of blended liquids, powders and granules, particularly for the agriculture and general chemical industries, the Yorkshire based company has its own R&D laboratories, production, packing and storage facilities and prides itself on being able to take a germ of an idea and develop, formulate, make, pack and ship it!

“As contract manufacturers, every customer’s needs are different but all require high quality effective products and services that are delivered on time and to budget, meet consumer demand and mitigate negative impact on the environment. With 40+ years’ experience, this is bread and butter to us,” said MD Martin Usher.

Keen to sustain its leading industry position, Grotech is busy investing in new equipment and processes. Its latest addition is a £110,000 palletiser that is not



only improving operational efficiency but reducing the risk of manual handling related injury for staff.

“Grotech is going from strength to strength and is busier than ever. We are building for the future with ongoing investment helping ensure we are well placed to meet the needs of our customers efficiently and cost effectively.”

[www.grotechproduction.co.uk](http://www.grotechproduction.co.uk)

## Diaphragm Pumps – outstanding performance for demanding applications

KNF develops and produces pioneering pump technology for use in demanding applications across a wide range of industries. As a global technology leader in diaphragm pumps and systems for moving liquids and gases, KNF supports customers by drawing on more than 70 years of knowledge and expertise. This is evident through development milestones, such as corrosion-resistant diaphragm pumps for chemical and process engineering, the temperature-resistant and heated pump head for hot gases of up to 240°C and the double diaphragm pump for transferring hazardous and valuable gases.

KNF provides its customers with extensive advice, reliable service and customised, flexible solutions. Our standard pumps can easily be modified to suit a wide range of customer specific solutions for your application. We work closely with you to design customised project pumps that give you a competitive edge in your target market. From its configuration



to its testing conditions and packaging, your project pump is tailored to your needs.

**KNF – your partner for customised pumps and systems.**

KNF UK has a dedicated team of experienced technical pump engineers. At our facilities in Witney, Oxfordshire we offer sales, full services capabilities, local stock, system builds and technical support.

Visit our website to see our range of pumps – [www.knf.co.uk](http://www.knf.co.uk) or call us 01993 778373 to discuss your application.

**Talk to us about your project today**  
Call now +44 (0) 1405 761746  
Britannia Road, Goole DN14 6ET  
[www.grotechproduction.co.uk](http://www.grotechproduction.co.uk)

**LIQUIDS**  
We have the capacity to mix a range of aqueous and oil-based formulations as solutions or suspensions in batches from 100 – 5,000 litres.

**SOLIDS**  
We can blend powders in batches from 50kg to 1500kg using a ribbon blender or Nautamixer.

**PRODUCT DEVELOPMENT**  
Grotech offer development and analytical services to help you reach your formulation and production goals.

**INNOVATIONS, PROBLEMS SOLVED, VALUE ADDED**

Grotech Production Ltd is committed to contribute added value through problem solving and innovation from the beginning of a relationship with a client.

- Undertake a managed formulation or product development project based on an agreed and budgeted brief.
- Solve product performance or marketing problems using our 40 years of experience of blending and packing technology.
- Recommend and source materials or packaging from a wide range of reliable suppliers to meet the required performance requirements.
- Undertake exploratory blending and packing trials, often at a nominal price or sometimes free of charge.

# Gericke

**Powder Processing Equipment and Systems**

**Gericke at a glance**

7300	pressure vessels manufactured during the last 10 years	3000	participants at our Gericke customer seminars in the last 10 years
1.7	km square bar steel converted into 565 high precision feeding helixes in 2018	200+	customer trials in our Test Centres per year
320	employees	40+	various professions at Gericke

Switzerland  
Germany  
France  
The Netherlands  
United Kingdom  
Brazil  
China  
Singapore  
USA  
Thailand  
Indonesia  
Malaysia

13

## Cutting edge size reduction

Gericke Nibblers are the preferred choice for de-agglomeration & size reduction of materials prior to or within manufacturing processes. Nibblers are widely used for the conditioning of bulk chemicals for use in reactor vessels, mixers and blenders.

The time proven design incorporates both impact and attrition forces which can be adjusted and specified to suit a wide variety of bulk materials. Size reduction of particles from 500mm to 150µm.

The low energy design enables the conditioning of material with minimal product temperature rise whilst providing a consistent particle size without creating excessive fines.

Nibblers can be incorporated into existing process lines or be connected to an elevated belt as a stand-alone unit, allowing reliance on labour intensive manual handling to be reduced.

**Benefits of Gericke Nibblers:**

- ▼ Low power consumption.
- ▼ Minimal product temperature rise.
- ▼ Low operating noise level.
- ▼ Easy clean/hygienic design.
- ▼ Quick release basket.
- ▼ ATEX certified

Gericke test centres are in UK, Switzerland, France, Brazil, USA and Singapore, these are available for customer tests under near-production conditions. The test centres are equipped with a range of original machines, and our experienced specialists design the test layout to suit your requirements.

We can also offer Nibblers for hire, to carry out trials on your premises.

[www.gerickegroup.com](http://www.gerickegroup.com)



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**Lakeland Laboratories Ltd**

Based near Manchester, Lakeland is an established manufacturer of Speciality Surfactants. Traditionally serving the maintenance chemical industry, our products are now used in most areas of the cleaning sector and industrial applications. We provide Technical support for existing customers and development of new business. Our products are exported throughout Europe and most other world markets. The most important product ranges for the I & I industries are the Amphoteric and Phosphate Esters. As well as providing the formulator with

multifunctional properties, these ranges possess excellent environmental profiles. Lakeland also has facilities for contract manufacture/synthesis.

Toll manufacture has always been an important part of Lakelands business. The strategic location and proven track record has led to long lasting working relationships with our clients. Lakeland currently possess 14 reactors ranging from 1000 to 25000 ltrs. All reactors are steam heated, rated at 165oC max.

Lakeland are committed to high quality manufacture and service and is ISO 9001, 14001, and 45001 registered.

T +44 (0)1942 873555  
sales@lakeland-labs.co.uk  
www.lakeland-labs.co.uk



**Excellence in fluid technology**

As a worldwide leader in dosing technology, sera ProDos 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 ProDos is renowned for its excellent customer service and leading German engineering, offering some of the most robust pumps available on the market to customers involved in food and beverage, pharmaceuticals, and water and wastewater treatment.

A recent addition to sera ProDos' chemical dosing pump offering is its iSTEP stepper motor pump. Setting standards in reproducibility and reliability, the iSTEP offers variable frequency control and a flow range of 0.02.50l/h, offering for a varied range of application possibilities. The iSTEP is suitable for an array of applications, including chlorine dosing for the treatment of drinking water, flocculating agent dosing in wastewater treatment, dosing of flocculant aids, and CIP Use. The pump is operated using a detachable control element, which allows

the rapid commissioning of several pumps with the same function. Furthermore, the status of the pump is indicated by a colour change on the display, meaning it is instantly recognisable and offers different speeds of suction and pressure stroke depending on the user's requirements.

Contact  
www.sera-web.com



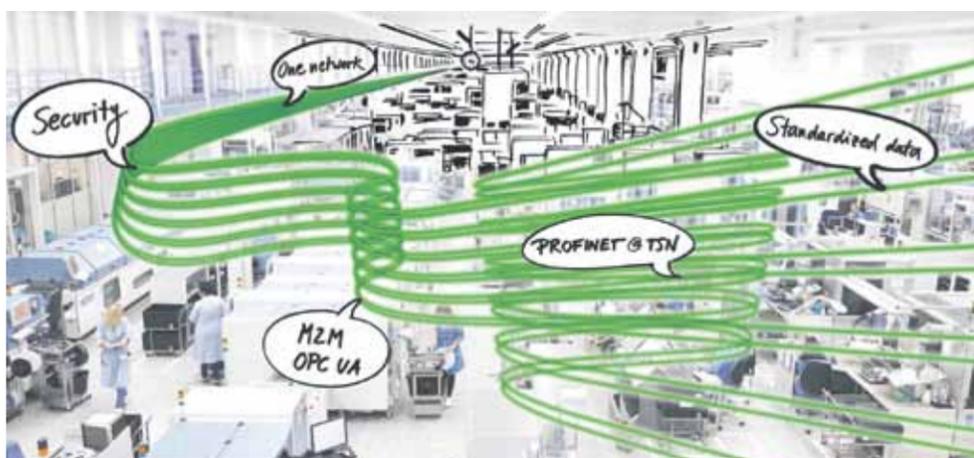
**Smart Manufacturing Update**

**PROFINET, PROFIBUS and IO-Link Training Opportunities**



Long before the advent of the Industrial Internet of Things, Industry 4.0 and "Smart Manufacturing" a group of leading equipment manufacturers and technical universities came together with the goal of helping German industry automate and standardise as many production processes as possible and link them effectively to IT management systems. The organisation came to be known as PROFIBUS & PROFINET International (PI). A UK Regional Association - PI UK - was set up in 1993 in order to bring these standards and related technologies to UK industry.

Now with nearly 80 million nodes installed



worldwide, PROFINET, PROFIBUS and IO-Link are truly market leaders, providing state of the art digital communications addressing all the needs of manufacturing and process industries, significantly lowering capital expenditure on installation, commissioning and maintenance. They offer unprecedented integration of automation, control, monitoring and safety systems using standardised and widely supported communications and networking solutions.

**How to learn more about PROFINET, PROFIBUS and IO-Link**

PI UK is organising a number of free-to-attend training opportunities in Birmingham (April 28), Scotland (May 27) and Belfast (June 23). These events are designed to address the key practical issues arising from the use of digital communications technologies in automated manufacturing and process industry applications, paying particular attention to Industry 4.0 and the Industrial Internet of Things (IIoT). They will cover key application areas such as control systems and energy management, pulp & paper, chemical,

utilities, pharmaceutical, mechanical handling and logistics, robotics, automotive engineering, electrical and electronics assembly, packaging and printing, from system design and safety & security considerations through to fault-finding and maintenance.

**Topics will include:**

- ▶ Introduction to PI Group – including highlights of new supported technologies  
An overview of the Group's structure and global representation, taking a look at the protocol basics and their benefits to UK industry.
- ▶ PROFINET network design  
The fundamental principles of good network design and the main factors that must be considered at the design stage of an automation system
- ▶ Network gateway technology  
Presentation and demonstration of network gateway technology, PROFINET to Profibus DP, PA, IO-Link and OPC UA
- ▶ Industrial network commissioning and testing  
Learn how to simplify the process of testing, how to prevent network failures and resolve cable and network issues faster.
- ▶ PROFIBUS and PROFINET device configuration tools  
A look at the available tools and FDI with a live demonstration of PROFIBUS and PROFINET device configuration.
- ▶ Industrial networks safety & security  
The basics of legislation and responsibilities for cybersecurity, safety and functional safety for Industrial Automation.
- ▶ Update on Industry 4.0, IIoT, TSN and APL  
Explanation of IIoT, IND4.0 and Big Data, and how PROFINET is placed as the ideal network to fulfil the above.

**Who should attend?**

Supported by an exhibition with demonstrations of actual tools used in configuration and maintenance,

**Worldwide - Futureproof - Networking**



these seminars will be of great value to Designers, Production/System Engineers, Instrument Technicians/Engineers and C&I Engineers involved in the design, operation and maintenance of modern automated factories and process plant.

**More information and online Registration:**  
Birmingham, April 28 - <http://bit.ly/PUK28April>  
Glasgow, May 27 - <http://bit.ly/PIUKScotland>  
Belfast, June 23 - <http://bit.ly/PIUKBelfast>

**Contact details for PI UK:**

T 02081 449 597  
Email: [uk@profibus.com](mailto:uk@profibus.com)  
<https://uk.profibus.com>  
[www.profibusgroup.com](http://www.profibusgroup.com)

## The one stop shop for all of your labelling needs



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

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

Datamark's product range includes: Plain and Colourwashed Labels, Flexographic Printed Labels, A4 Sheeted Labels, Fanfolded Labels & Tags, Own Brand Thermal Transfer Ribbons, Thermal Transfer Ribbons, Thermal Transfer Bureau Print Solutions, GoDex and other brand Thermal Transfer Printers, Thermal Transfer and Direct Thermal Print Solutions, and TT Printers Service and Maintenance.

Driving the company forward, aside from their extensive product range, is their continued emphasis on providing the best customer service possible. It is no wonder that Datamark supply such a wide variety of industries, including; food, distribution and logistics, storage and contract packers, electronics, homecare, automotive and industrial.

sales@datamarkuk.com  
www.datamarkuk.com

## Travtec Limited

Travtec Limited, are widely known for their custom designed and manufactured solutions, but did you know they also offer a wide range of standard solutions for packaging and coding?

We have an extensive range of standard "conveyor accessories" and equipment, which provide increased efficiency across production areas in many markets. We offer proven solutions to integrate into existing product lines. If you need to code on the base of bottles or cans then look no further.

Our systems can be integrated with various other proprietary solutions, including Thermal Inkjet, Continuous Inkjet, Laser and Thermal transfer for marking. Print & Apply and other labelling systems and are used in many major companies around the world.

We also offer a range of tamper evident Labelling machines from our Tampino range. From a small low-cost desktop unit, right through to a fully automatic high-speed labelling system with several other solutions in between.

Trading for 20+ years Travtec have the experience and perfect pedigree to offer a proven turnkey solution to any coding, Serialisation/aggregation requirement.

Our machines are used all over the world and our customers come back to us time and again. We look forward to assisting you with your requirements.

www.travtec.co.uk



## Creative gift packaging

Shredhouse Limited is the only UK-based manufacturer of shredded kraft paper, tissue paper and cellophane for the gift packaging market for which we offer national sales coverage. Our high quality and eco-friendly packaging can help to enhance your products, gift boxes and hampers, aiding the overall unboxing experience while doing so.

We work with a variety of customers, from large multi-national brands to British artisans, and across a wide range of market sectors including health and beauty, food and drink, craft and toys, gifts and many more, while also being able to supply retailers, wholesalers and contract packers.

Our bright and decorative products help to add that

all important 'WOW' factor to your product packaging, enhancing the perceived value of the product and is an equally attractive way to fill boxes to prevent products from breaking or moving around in their boxes.

With custom made machinery in our purpose-built warehouse, we can react extremely quickly to product requests, create and deliver shredded packaging options for your every need, while also offering bespoke or blended colours to match your corporate branding.

For further information, please view our products on our e-commerce website at: [www.giftpackaging.co.uk](http://www.giftpackaging.co.uk) or for samples and

pricing requests, please contact Jon Watton, Business Development Manager, on 01672 564333 or email: [jon@shredhouse.co.uk](mailto:jon@shredhouse.co.uk)



### "Quite Simply... Labels"

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### Newly Appointed UK Agents

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## DataLase Case Coding

### Inkless Laser Printing of Variable Information Directly onto Corrugated and SRP Boxes

- Eliminates consumables from production lines
- Minimal preventative maintenance servicing
- Laser reliability to reduce unscheduled downtime
- No waste disposal considerations
- Late-stage customisation of packaging
- Realise the operational efficiencies of laser marking systems on end-of-line applications

## Eliminates Single Use Plastics from the Supply Chain

# 16.8%

Reduction in carbon emissions against alternative solutions\*

\*Independent report by Carbon Footprint Ltd, estimates made using publicly available data.

**NATU** Caseless Creativity for a Sustainable World

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# Your guiding light for LED solutions

**Industry Update is proud to announce that LED Industrial Lighting Company Ltd has been chosen as our LED Solutions Company of the Month.**

"We were established in 2009 as OCIP ENERGY Ltd," explained Aidan Brown, Managing Director. "As we approached our 10th anniversary, and with the acceptance of LED lighting into the mainstream market, we changed our name to LED Industrial Lighting Company Ltd to better reflect the nature of the market in which we operate."

Based in Cheltenham, LED Industrial Lighting Company Ltd operates across the UK and Europe, and numerous key clients have used its services across their European operations. As the status of LED lighting has changed, so the company has adapted its services to better address the needs of the marketplace. "The



company's role has evolved as LEDs have become more accepted," explained Aidan. "In the early days, it was about convincing businesses that LED was the future. Nowadays, we are effectively a specifier, assisting clients to identify and source the most appropriate product for their premises."

Working exclusively with LED lighting, the company has a focus on the commercial and heavy industrial markets, including hazardous area environments, as well as significant experience in the niche market for obstruction lighting.

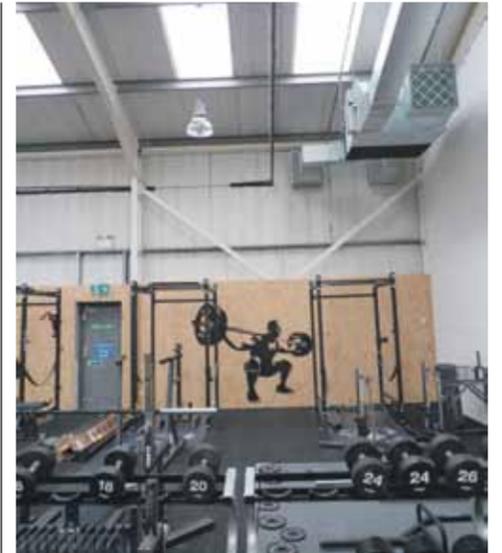
With the increase in LED lighting's popularity, there has undoubtedly been an increase in the number of poor quality products, which have swamped the market and made it increasingly difficult to find the best and most suitable solution. Thankfully, LED Industrial Lighting Company Ltd's extensive experience of the LED lighting sector allows it to match the most appropriate fittings to the client's requirements, as well as guiding clients to the right products for their individual requirements, without making expensive mistakes.

Certainly, LED Industrial Lighting Company Ltd has a documented history of listening to the market and addressing its needs, something which is reflected in the company's motto to 'listen and deliver'. "We believe



in understanding the client's operational requirements and then developing a value proposition that addresses those needs, all within budget," Aidan elaborated.

Of course, LED lighting is constantly evolving, but there are limitations as to where future efficiencies will be generated in the LED technology alone. "Where the real revolution is occurring is in the controls for these lights," explained Aidan. "LED Industrial Lighting Company Ltd is able to offer the market leading remote monitoring platform, which allows a user to monitor and manage their lighting infrastructure from their own laptop, giving real-time data on what is happening within their office, building or entire estate. We can monitor a suite of parameters from energy usage to the status of the batteries in the emergency fittings. This offers potentially huge maintenance savings, and the system will automatically run test and report systems to ensure full regulatory compliance."



With an outstanding reputation for quality, value and customer service, there is no doubt that the future looks bright for LED Industrial Lighting Company Ltd, a company which clearly possesses the drive and determination to continue its innovative work. "2019 was a challenging year for us as a business. Specifically, I was diagnosed with cancer in March and underwent chemotherapy for the best part of a year. During that time, I continued to work and am very grateful for the support of our existing clients, as well as the patience of the new ones. Having had the all-clear at the end of 2019, I am keen to drive the business forward and make up for lost time."

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

**T 01242 250633**  
**info@ledindustriallighting.co.uk**  
**www.ledindustriallighting.co.uk**

## Sheet Metal Engineering Company of the Month

# Sheet Metal Specialists

**In this issue of Industry Update we have selected leading company Dudley Industries as our Sheet Metal Engineering Company of the Month.**

Originally established as Dudley Hill Engineering in 1942, Dudley Industries maintains a vast history of experience in engineering high quality sheet metal products.

"First and foremost we are experts in sheet metal engineering. We have three market strategies; we design and market our own range of commercial washroom accessories, such as paper towel dispensers and toilet roll holders. We also design and make metal Pest Control products. Finally, we



are able to use our expertise and capabilities to help other companies bring their metal projects to life with our contract manufacturing skills." Chrissie Rowlinson, Marketing Manager.

Dudley Industries provides a one-stop-shop solution with a range of capabilities and services' including design, prototyping, cutting, folding, welding and the company also maintains its own powder paint facility. "We are proud to provide all services in house," Chrissie explained, "Our engineering capabilities include a 7 axis tool maker, flat bed and 5 axis laser cutting and a robot finishing cell."

One of Dudley Industries latest innovations for its hygiene division is the Modulo Behind the Mirror System. A modular behind the mirror hand hygiene solution, Modulo is an easy to install cabinet that provides a range of benefits including being extremely space efficient and flexible in design with a selection of hand washing and drying options.

In terms of other developments for the company, Chrissie told us that, "Again within our hygiene division we are working to develop niche products such as the Wudu Washstation that supports ablutions before prayer. We've also developed a range of Anti-Ligature dispensers that help to prevent



a ligature being attached for the purposes of self harm, these are ideal in mental health facilities as well as prisons, courts and detention centres for helping to safeguard vulnerable people at the risk of causing self-harm. "

The company also provides a Dementia range of dispensers that is easy use and encourages an independent lifestyle. As one of the symptoms of dementia is a reduced ability to detect contrasts between colours, often washrooms and dispenser units can be quite similar in colour which could cause confusion for the user. By using contrasting coloured dispensers and wallplates, Dudley Industries' range enables those living with dementia

to distinguish between dispenser and decor and with clear instructions next to it, they help to reduce confusion and support user independence for as long as possible.

An upcoming noteworthy appearance for the company, Dudley Industries will be attending SubCon2020, Chrissie stated, "We will be at SubCon2020 promoting contract manufacturing and will attend Hotel and Construction shows in Dubai to promote our washroom products."

Speaking with Chrissie regarding the company's future plans, Chrissie told us that Dudley Industries plans, "To continue to serve our customers and deliver their requirements. We are strengthening our team to help build our contract manufacturing division and focussing on innovations within our Washroom division. We are growing and this year we are focusing on expanding and strengthening our team to facilitate the growth we have achieved and continue this into the future."

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

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## Spectrum Instrumentation turns 30



MD for 30 years: Gisela Hassler

Riding the PC instrumentation wave with quality, support and innovation

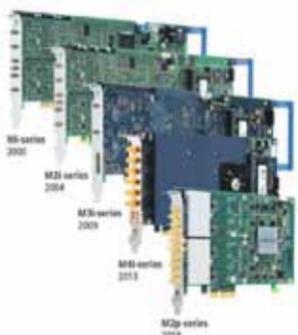
Spectrum Instrumentation, a specialist PC based technology

company, has built a global enterprise since it was first founded 30 years ago in December 1989. The company uses a versatile modular design approach to create a wide range of digitiser and generator products as PC-cards (PCIe and PXle) and standalone Ethernet (LXI) instruments.

In 30 years, they have gained customers all around the world, including many A-brand industry leaders and practically all prestigious universities. The company is headquartered near Hamburg, Germany.

The company has one of the largest portfolios of digitisers on the market, giving users a huge choice of different performance levels. For example, Spectrum's digitisers are available with sampling rates from 5 MS/s up to 5 GS/s and resolutions from 8 to 16 bits. The cards also offer from 1 to 8 channels and larger multi-channel systems can be effortlessly created by connecting up to 16 fully synchronised units together!

info@spec.de  
[www.spectrum-instrumentation.com](http://www.spectrum-instrumentation.com)



## Radiocrafts has just released a new & updated version of the RIIM SDK!

Radiocrafts has just released a new and updated version of the RIIM SDK to make it easier and quicker for customers to create a prototype network with RIIM. RIIM is an IIoT Wireless IP mesh network in a module. It was developed for the user to easily create their own industrial grade access network with direct IP connectivity, in minimal time and effort.

The RIIM SDK supports development of code for the ICI application in the RIIM module. An ICI application is always running on the module to tailor the

module's behavior to the customers unique requirements.

- ▼ The SDK has various new features including:
- ▼ Supports Windows and Linux
- ▼ New node configuration – Leaf node (
- ▼ New example ICI application for sleepy nodes - This example is meant to show the exceptionally low power capabilities of a RIIM node.
- ▼ Automated scripts to generate a flash image and upload it to the module
- ▼ The RIIM Dashboard

The SDK itself also has an html file where Radiocrafts has laid out detailed descriptions of all necessary instructions needed to use the SDK effectively.

You can order a RIIM Development Kit from Digi-Key and download the SDK from the Radiocrafts website.

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## The Home of Lead Free Soldering & PCB Cleaning



Essemtec AG supply smart and highly flexible SMT Solutions, including the Fox and Puma Pick & Place systems which can offer multiple heads for P&P, as well as dispensing on a single platform.

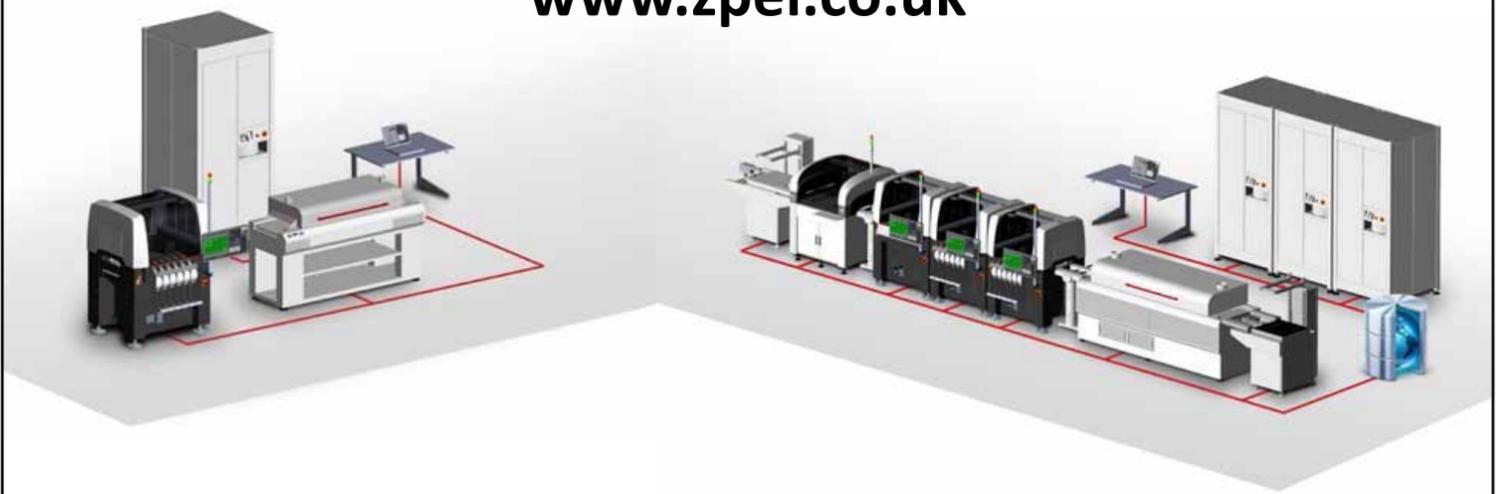
The Fox and Puma can both be used as stand-alone systems or be configured as inline solutions, and there are also the Spider and Tarantula systems which have a range of nozzle technologies purely for dispensing.

All the systems use mineral cast beds for vibration free production as well as benefiting from no warping caused by thermal drift. They use linear motors throughout in order to give the highest accuracy with zero maintenance, and have one of the most comprehensive software packages available.

As well as these, Essemtec AG has the Cubus and Cubus Large Component Towers, which offer the flexible storage of SMD reels in a range of sizes, trays, and boxes. The towers reduce logistic problems by 95% and offer full interface to most production systems and all major ERP and material management.

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## Alan Why appointed Bunting's UK sales manager

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



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

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

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

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

"This is a very exciting opportunity," said Alan. "The Bunting brand has never been stronger in the UK and I am looking forward to co-ordinating the strategy and implementing the plans to further expand our customer base."

"Alan is a well-respected and experienced member of our sales team and has the vision to take us forward," explained Simon Ayling, Bunting's European Managing Director. "We believe that having a strong external sales team is important. Alan has the necessary experience and skills to further develop that sales team." Alan Why assumes his new position in January 2020.

For further information, please contact us on [press@buntingeurope.com](mailto:press@buntingeurope.com) or visit our website [www.mastermagnets.com](http://www.mastermagnets.com)

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## CamdenBoss launches its most innovative smart enclosure to date

1500 Series Universal Smart Enclosure – engineered excellence in a box!

CamdenBoss, a leading manufacturer of precision engineered interconnection components and electronic enclosures, has kickstarted the new year with the unveiling of its latest enclosure addition. The 1500 series universal smart enclosure features 45° angles providing versatility whilst remaining in tune with the premium quality expected from CamdenBoss.

This enclosure brings with it one size and three colour options including black, white and grey. Further options include a solid or vented base that lend themselves towards specific applications such as room sensors, access control, lighting

management or smart temperature devices. Moulded in a UL94-V0 material, the 1500 series comes with a top cover featuring a recess ideal for overlays, keypad membranes or digital printing; along with a base which can be attached to with the use of only a single screw for quick and easy assembly. Both halves are equipped with multiple mounting bosses at different levels to provide a design engineer with plenty of options when deciding on the position and layout of the PCB's.

The corners of the base have been cut to leave 45° angles, adding two more usable faces to the enclosure. By doing this, a variety of surface mounting options are possible, increasing the diversity of applications available. With the use of the well-developed mounting bracket, the

enclosure has been designed to be used in the corner mounting orientation, dealing directly with issues that are faced within the industry for installers and designers.

In some circumstances regular 90° walls cannot be guaranteed and this then creates problems. However, the 1500 series does not succumb to this issue and will mount in irregular walls without hassle. In addition to corner mounting the 45° mounting style also opens up avenues for tilted door entry systems such as keypads and biometrics or mounted above a door for motion entry.

Sold primarily as a kit, it has all of the necessary components to get you started, such as the 45° bracket and screws. CamdenBoss helps you get the

most out of the enclosure with only the PCB design to worry about.

All of this has been engineered styled and designed around the market today, dealing directly with the issues and requirements that engineers are crying out for - and all at an incredible price. CamdenBoss also offer full in-house customisation such as digital printing, CNC cutting and coatings should you require them. Ongoing support in the form of assembly and marketing videos highlight the many features and benefits that make the 1500 series the pinnacle of what can be expected from this world class manufacturer.

All of this information can be found on their

dedicated web page or individual SKU pages, alternatively their sales team are on hand to discuss any enquiries you may have.

[www.camdenboss.com/1500-series](http://www.camdenboss.com/1500-series)  
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Should your issue be with finding counterfeit components within your supply, we also offer both X-Ray and electrical comparison.

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## New IO-Link level controllers from EGE

EGE introduces a new generation of level controllers with guided microwave: the MFN series sensors feature an IO-Link interface and thereby enable continuous access of PLCs to process and parameterization data. Using a corresponding master, the level controllers can be connected to any common bus system and conveniently parameterized via PC or notebook. The guided microwave measuring principle ensures high reliability due to its insensitivity to external influences such as temperature, pressure, or density. It provides for precise measurements in liquids such as water, oil, and emulsions as well as in viscous media. MFN sensors stand out due to their particularly short reaction times in case of level changes. Their display units can be configured to show the measured level in mm, cm, inch, liter, or percent. The housings can be rotated by 360° along with integrated LED indicators and control panels, allowing users easy access for configuring the devices and reading measured values. The level controllers feature IP67 ingress protection and are designed for an ambient temperature range of -25 °C to +85 °C. EGE's level controller portfolio includes variants with coaxial, single, and double probes for use in different media. The company also manufactures probes from special materials such as Hastelloy or titanium for use in aggressive media. Moreover, EGE also adapts sensors to customer-specific tank geometries and difficult installation conditions, on request.

T +49 4346 4158-0  
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EGE supplies its new MFN level controllers with guided microwave and IO-Link interface with coaxial, single, or double probes

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# Precise gundrilling machines for all industries



**Industry Update is proud to feature UNISIG for being a world-leading provider of complete deep hole drilling systems. For nearly 40 years, UNISIG has offered tools, automation systems and machines for any deep hole drilling purpose, remaining at the forefront of its industry and constantly developing its products to provide the highest quality solutions.**

UNISIG was established in 1981 by the Swiss Industrial Group (SIG) and the US company United Technical. In 1995, UNISIG was acquired by Entrust Manufacturing Technologies Inc., which allowed for further growth in innovation and expertise with heavy investments in UNISIG's deep hole drilling machines. Offering tools, automation systems and machines for any deep hole drilling purpose, UNISIG is at the forefront of its industry, constantly developing its world-leading products to provide the highest quality solutions to its customers.

As one of the largest producers of deep hole drilling machines in the world, UNISIG's customers range from small job shops all the way to large OEMs that need to drill millions of holes. Certainly, with such a wide-ranging customer base, it is essential that UNISIG maintains a steadfast commitment to upholding its industry-leading services, a standard which has been sustained since its inception 38 years ago. "UNISIG is always working to build heavier, more rigid machines," explained Philipp Steimle, Managing Director. "These are capable of drilling the toughest high-alloy steels, not just once but day in day out, for major players in the oil field and aerospace industry. We are heavily focused on improving deep hole machining as a whole, by spending around €2.8 million in research and development every year."

Indeed, UNISIG possesses a strong understanding of the deep hole drilling

process, drilling tools, and their applications, gaining years of experience from solving real problems for customers and learning what they need from the machines they use. UNISIG then applies this knowledge to its systems, not just reaching performance standards for deep hole drilling machines, but setting them, driving constant improvement and benefiting the entire industry.

Offering a full range of machines, UNISIG has standard models which can drill holes of less than 1 mm diameter in titanium medical components, while on the other end of the spectrum they can build machines that drill holes which are 500 mm in diameter and over 10 m deep in huge high strength forgings.

Philipp also told us about some exciting recent developments for UNISIG. "We have just added another five models to the USC-M series deep hole drilling and milling centres for the mould industry. These have a substantially stronger milling capacity and full support for indexable gundrill tools, as well as BTA tools in some models, which allow mould manufacturers to literally cut their production times in half."

UNISIG's USC-M series is for manufacturers who have the opportunity to benefit from a combination of deep hole drilling and milling operations. The machines in this series maximise production by offering the fastest deep hole drilling with milling, with 5-axis positioning in order to perform a range of complex machining in a single machine and setup. Offering a full range of solutions for manufacturers, the USC-M series includes heavy weight table capacities, a rotating A-axis, automatic tool changers and intuitive controls on each machine.

"We are also currently upgrading our UNI and UNE series of gundrilling machines, which are mainly used in industrial environments, contract manufacturing shops and the medical field. Simplifying integration of automatic loading and versatility will reduce cost and lead times significantly. What's more, UNISIG has just invested in a 3,100 m<sup>2</sup> climate controlled

extension of our headquarters in Menomonee Falls, Wisconsin, USA, in order to house the Tech Centre for engineering and gundrilling machine assembly."

Offering unparalleled technical expertise, UNISIG offers remote and on-site services in order to help maximise the value of the investments its customers have made in their equipment. Indeed, these machines can be installed and supported anywhere in the world, thanks to UNISIG's global network. What's more, when a standard machine isn't the most appropriate solution for a customer, UNISIG is able to engineer a custom solution to better meet their needs, while maintaining the same standards of performance and service found in its standard machines.

As a supplement to this global presence, UNISIG attends over 15 shows every year to raise awareness of its products and services. As well as being present at numerous trade shows, UNISIG also has a website where you can find out more information about its full range of machines and technical services. Alternatively, you can get in touch using the contact details below.

**Contact**  
**T +49 (0)7125 9687590**  
**info@unisig.de**  
**www.unisig.com**



# Drilling deep to success

**UNISIG is the world's leading supplier of the complete deep hole drilling system, offering machines, tools and automation systems whilst working closely with each and every customer to ensure that their drilling project requirements are met. A complete dedication to support and customer satisfaction helps stand UNISIG out as the number one supplier worldwide.**

Founded in 1981 by Swiss Industrial Group (SIG) and the US company United Technical, UNISIG provided deep hole drilling equipment technologies to the US market.

A company called Entrust (established in 1973 by John Korosec) acquired the UNISIG brand in 1995 as a product division of Entrust and this coupling helped UNISIG redefine performance expectations in the deep hole drilling market, worldwide. Ever since this merger, UNISIG has dominated the market with its industry leading technologies and continues to radically reduce lead times on projects through its innovations and expertise. I had chance to interview Philipp Steimle, Managing Director of UNISIG's European Sales branch to find out more about the company.

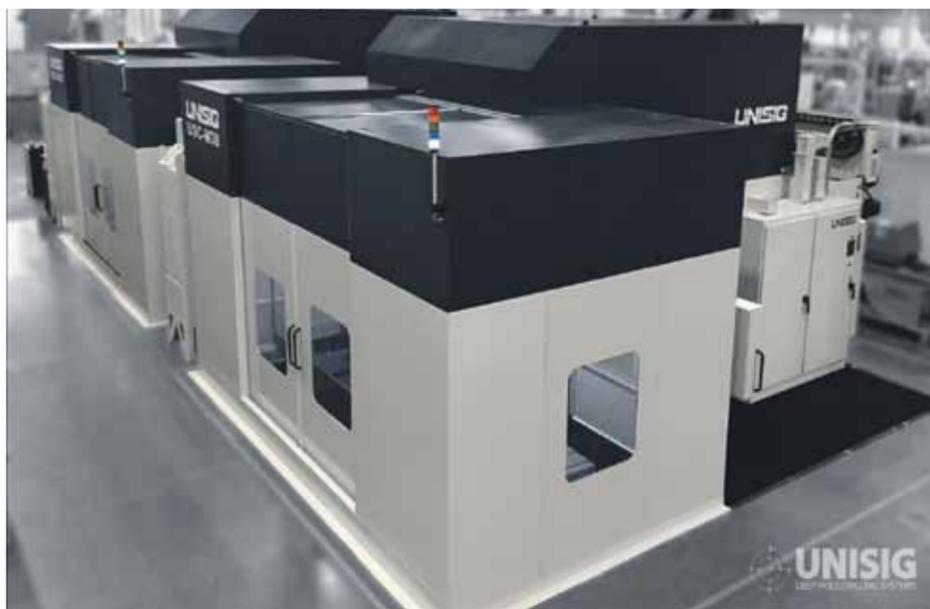
"UNISIG deep hole drilling systems consists of machines, durable tooling and automation, and are designed to meet the highest performance standards possible. Products are engineered and manufactured in the USA using metric hardware, and include the integration of premium components such as FAG, INA, Parker, Rexroth, Rohm, Schunk, SKF, Wittenstein Alpha and ZF. Products are designed following all applicable ISO, DIN and IEC standard, and are exported worldwide."



UNISIG supplies their products and services to a wide variety of clientele including automotive, defence, oil and gas, energy, aerospace and medical companies to name a few, but any sector that needs deep hole drilling will benefit from what UNISIG offers. "UNISIG deep hole drilling machines are proven with industry leading manufacturers in all regions of the world. UNISIG is chosen for its ability to consistently meet vital demands of tolerance. UNISIG stands out among industry players for its skills in handling large, complex projects including multiple machines and automation, process development and tooling testing, as well as custom engineering and turn-key projects."



effort, increasing accuracy, and eliminating design restrictions of traditional machining centres.



UNISIG's latest line of machines, aimed at the mould industry, follow UNISIG's usual trend of creating solutions that are refined and efficient. Mould manufacturers are faced with the challenge of handling large workpieces that require deep hole drilling as well as machining with maximum precision. UNISIG's mould drilling and milling machines are specifically designed with market input to combine operations, reducing setup time and

"We are currently releasing a whole new line of machines targeted to the mould industry, models USC1, USC2, USC3 that can finish mould production in maximum 2 setups which cuts down production time dramatically while being extremely cost-effective."

If you would like to find out more regarding the deep hole drilling machinery, other products and services UNISIG offers follow the link below for their website, or alternatively speak to them directly regarding your requirements and UNISIG's professional and friendly team will support you every step of the way.

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# Expert innovators in deep hole drilling systems



**H**ere at Industry Update, we are committed to showcasing the very best products from industry-leading companies. One such company is UNISIG, who's USC-M Milling and Drilling Centres and USC-TS Tube Sheet Machines are revolutionising the deep hole drilling industry in numerous applications and requirements.

UNISIG was established in 1981 by the Swiss Industrial Group (SIG) and the US company United Technical, and is a leading provider of complete deep hole drilling systems. In 1995, UNISIG was acquired by Entrust Manufacturing Technologies Inc., which allowed for further growth in innovation and expertise, investing heavily in UNISIG's deep hole drilling machines. Offering tools, automation systems and machines for any deep hole drilling purpose, UNISIG is at the forefront of their industry, constantly developing their world-leading products to provide the highest quality solutions to their customers.

Their USC-M series is for manufacturers who have the opportunity to benefit from a combination

of deep hole drilling and milling operations. The machines in this series maximise production by offering the fastest deep hole drilling with milling, with 5-axis positioning in order to perform a range of complex machining in a single machine and setup. Offering a full range of solutions for manufacturers, the USC-M series includes heavy weight table capacities, a rotating A-axis, automatic tool changers and intuitive controls on each machine.

The models in the USC-M series are available in a range of capacities and options, with either engineered universal or dedicated spindles. UNISIG offers these in three different configurations: universal gundrilling and milling combination spindle with quick changeover for a range of operations in a single machine; dedicated spindles for BTA+ gundrilling and milling, for powerful machining capabilities and improved feed rates; dedicated spindles for BTA+ gundrilling and milling, plus robust options for an ultimate milling and drilling performance.

USC-M series also comes with a range of machine options, including: Heidenhain glass scales, offering direct feedback in order to improve axis positioning accuracy and repeatability; Renishaw wireless probes allowing workpiece verification, job

setup and inspection; automatic radial and axial tool setup to improve accuracy and reduce tool breakage; automatic tool changers with up to 120 tools; modular fixturing to reduce setup and allow for process planning; and dual pallet loaders to allow for automatic workpiece exchange, improving machine utilisation and unattended machining.

Another of UNISIG's innovations is its USC-TS series for tube sheet deep hole drilling. Certainly, there is no room for error when tube sheet manufacturers



require thousands of precision holes in large and high-value workpieces, and this is where UNISIG's USC-TS series can help. Using multiple spindle configurations and programmable positioning, UNISIG's machines bring confident drilling to heat exchanger tube sheets.

This accurate drilling in fast cycles means that manufacturers can drill more holes with improved accuracy and without risk. The machines have almost limitless weight capacity, extremely large travels, and high efficiency BTA and gundrilling, all on a rigid machine base and column. The spindles are independent and available in two, three or five spindle configurations, and all the USC-TS machines are based on proven USC column-type machines, which have been designed for the specific demands of the tube sheet industry.

With nearly 40 years of experience in deep hole drilling systems, UNISIG is well placed to offer the very best machines in the industry, providing their customers with the reassurance of world-leading expertise and manufacturing skill. If you would like to find out more information, head to their website where you can find the full range of UNISIG's products and services. Alternatively, get in touch using the contact details below.

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# KOOI® REACHCONTROL - Less damage when moving pallets

**A** common problem in organisations where several different pallet sizes are used, for example in the packaging, paper, beverage and furniture industries, is that it is hard to find the optimum length of forklift forks because they are either too long or too short. If the forks are too long, they will protrude through the rear of the pallet when they are being inserted into it and catch any load located behind it when they are raised. This will damage the pallet and possibly the product, and in the worst case, someone could get injured.

Meijer Handling Solutions introduced its KOOI® ReachControl; a patented system that includes a flowmeter (base unit 100x80x60 mm and an app to operate the system. This flowmeter can detect the amount of oil flowing through the reach forks. Specially developed software can be read using an app that is compatible with standard Android or iOS smartphones. The more extensive version of the KOOI® ReachControl features the ability to stop the outer sleeves at certain set lengths (at least 8 pre-sets).

Customers can enter the variables themselves and allocate a specific name to each setting. The system can be mounted on any telescopic fork as no modifications to the reach forks are required.

Without the automatic stop function, the system can be rapidly



installed and information is transmitted by means of a Bluetooth® signal. The KOOI® ReachControl system is also fitted with a tilt indicator as standard so that you can immediately see that the reach forks are being inserted horizontally into the pallet openings. After all, if the forks are not horizontal when they are being inserted, they will damage the deck of the pallet. The tilt indicator can also help improve handling cycle time by allowing the lift truck operator to work faster as the operator always knows if the forks are level prior to entering into the pallet.

The auto-stop system features a special valve. In addition, a power



supply is required because otherwise the battery in the KOOI® ReachControl would run down too quickly.

Although the app can be downloaded to any modern smartphone (iOS/Android), Meijer Handling Solutions recommends purchasing the specially developed 5" colour monitor because this can be connected to an external power supply and features a sturdy casing. The KOOI® monitor can also be operated while wearing most commonly worn work gloves, and when used in conjunction with KOOI® ReachControl, it offers one of the most innovative solutions in the field of pallet damage prevention.

Specifically, we will list all the important benefits:

- ▼ No modifications on existing and new ReachForks
- ▼ Ideally for after sales purposes
- ▼ Useable on all brands of telescopic forks
- ▼ Programmable by mobile app (Android / iOS)
- ▼ Free choice in numbers of pre-sets and naming
- ▼ Automatically connection with Bluetooth® signal
- ▼ More systems can be used in same area.
- ▼ No wiring needed (without auto-stop).
- ▼ Including standard tilt indicator

Optional:

- ▼ Auto-stop valve
- ▼ Power supply 12-24 Volts
- ▼ 5" colour monitor
- ▼ External power supply (12-24 Volts)
- ▼ Sturdy casing and modern design
- ▼ Can be operated with most commonly work gloves
- ▼ Forklift pillar tablet mount

For more information please contact:

**Meijer Handling Solutions**  
T +31 (0) 518 49 29 92  
[www.Meijer-Handling-Solutions.com](http://www.Meijer-Handling-Solutions.com)

## Stretch wrappers & packaging

Packaging provider, Hazel 4D, and pallet wrapper manufacturers, Atlanta Stretch, exhibited together at the PPMA Total show.

They'll be showcasing three stretch wrappers. The Mytho Easy wrapper has a 25mm low profile turntable and is great for high volume pallet wrapping. The high-tech film carriage can stretch film up to 400%. The compact SFERA Easy Touch robot wrapper has the same advanced carriage but can be used anywhere to wrap any size of pallet. The Marathon is

a safe alternative to manual wrapping. Operators can push the machine forwards around the pallet to wrap it without bending down, reducing the risk of back strain.

Hazel 4D will demonstrate its Nuevopak recycled paper void fill machines and Locked Air machines, alongside a winder cart that collects air cushions as they're produced.

**Contact**  
T 0113 242 6999



## 1 Minute maintenance – an AmbaFlex service innovation

What started as a small idea presented during a coffee break is now celebrating its 5th anniversary as a global service. Our 1-Minute-Maintenance program is a series of easy to follow video instructions that are accessed through strategically placed QR-codes on the machine's maintenance points.

These codes give mechanics around the world the chance to service our products in the field anytime and anywhere — without having to go through training or worrying about finding the right manuals.

With many of both our regional and global customers invested, we can safely say we struck gold with our 1-Minute-Maintenance program. And, thanks to our early investment, we have a big head start on our competition, allowing us to dive even further into uncharted 'service innovation' territory.



Check out the introduction video: <https://youtu.be/d-gm-xYBXmo> or scan the QR code and contact us for more information through our website [www.ambaflex.com](http://www.ambaflex.com)



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## Europe's Largest Digital Manufacturing Expo

Digital Manufacturing Week 2019's Smart Factory Expo was a buzzing atmosphere once again on the 12th – 15th of November 2019. Welcoming manufacturing professionals across the globe, the three day event is Europe's largest digital manufacturing show and is comprised of dozens of manufacturing events and presentations. Digital Manufacturing Week hosts the latest developments in industry technology and provides a home for the digital manufacturing industry to share and adopt these technologies.

Taking place at the Exhibition Centre Liverpool, the expo hosted more than 6,000 visitors and showcased 200+ world-class exhibitors, spanning across 12 theatres. The expo is a great platform for companies to showcase their latest innovations and services and provides key industry leading speakers sharing ideas and processes.

The event provides vital industry insight and

a chance to network with new potential connections. Smart Factory Expo is back again in 2020 at the Exhibition Centre Liverpool on the 10th – 13th of November.

For any further information please see the details below.  
[www.digital-manufacturing-week.com](http://www.digital-manufacturing-week.com)



## Hexsor impresses with next-generation intelligent sensor solutions

A ground-breaking range of 'portable laboratories' designed for use in the water and oil industries won acclaim from attendees at November's Smart Factory Expo, Europe's largest digital manufacturing show.

Developed by Liverpool-based technology company Hexsor Scientific, a world leader in the design and implementation of sensor technologies for in-field analysis of airborne, waterborne and soilborne contaminants, the industry-first smart product range combines leading edge spectrometry with a bespoke Internet of Things (IoT) software infrastructure.

Boasting delivery to deployment

in minutes, and with no specialist training required, Hexsor's family of products enable high performance, laboratory-quality analysis of environmental contaminants in-field, in real-time and at a fraction of the cost associated with in-lab characterization. Designed for use across a range of contexts - including industrial and commercial heating and effluent systems, oil and water pipeline and storage and water supply and sanitation infrastructure - the benefits to users are clear: minimal wastage, improved incident prevention and detection, reduced system down-time and optimised budget.

As industry adapts to balance

growth with the need to mitigate negative environmental and societal impact, Hexsor offers smart solutions to meet the challenges of sustainable development.

Contact  
[www.hexsorscientific.uk](http://www.hexsorscientific.uk)



## Innovative asset condition monitoring solution

Asset Insight Manager 4.0 (AIM) is an end-to-end asset management and compliance monitoring solution. This involves capturing, monitoring, analysing and segmenting key data to, provide useful insight into an asset's performance and health condition in near real-time.

AIM is a data driven IoT technology that is divided into EMS (Environment Monitoring Solution) and AMS (Asset Monitoring Solution). Our goal is to provide a comprehensive insight into an equipment's condition both externally and internally, where AMS monitors an asset's condition and health status and EMS monitors its external environmental condition around an asset. This enables both

prognostic and diagnostic asset management system, saving a lot of time and costs involved in case of an asset's downtime.

Our current projects include Predictive failure analysis of Baggage Handling System (BHS) at one of the major UK based airports, condition monitoring of assets for a major client based in the chemical industry and many more.

Our end goal is to provide our clients with not only asset level, but also operational process level and Enterprise level performance insights in order to drive real business value.

For more information and to book a demo please get in

touch with Stephen Harrison at [Stephen.harrison@assethandling.com](mailto:Stephen.harrison@assethandling.com) or on 0845 075 5886



## Transform your business with server Virtualisation and Real-time data capture

Belvoir Valley Solutions Limited is a virtualisation and real-time data capture solutions provider, offering a complete on-premise virtualisation infrastructure to host your servers, workstations and applications.

At the Smart Factory Expo BVS showcased an on-premise private cloud infrastructure, out of the box and loaded with a complete manufacturing suite of servers, a real-time data capture repository and front-end display.

Managing Director, Simon Coffey, commented "We had

a fantastic response to our offering of a complete 'plug and play', on premise virtualisation solution, based around the award winning Scale computing hyperconverged platform. Visitors emphasised the need to store and process their data locally with the option to forward to the public cloud if and when required. "We want to be in control of our data" was a standout message of the show".

There are many components to Industry 4.0, IIoT and digital transformation and we firmly believe getting the fundamental building blocks in place is key to

a successful digitisation journey. Some of the biggest barriers to entry are affordability, security, and complexity; we want to eliminate these barriers and offer a low entry cost but scalable solution.

T +44 (0)1949 442021  
[enquiries@bvslimited.co.uk](mailto:enquiries@bvslimited.co.uk)  
[www.bvslimited.co.uk](http://www.bvslimited.co.uk)



## HVM Catapult can help you achieve step-change in your performance

Do you want to improve your company's performance?

The High Value Manufacturing Catapult is the go-to place for advanced manufacturing technologies in the UK. We have seven world-class centres of industrial innovation with a burning ambition to grow your business by helping you turn great ideas into commercial realities.

We provide access to the specialist equipment and expertise you need to help investigate new technologies and processes and test their application in your operation. We help you strip away the risks of innovation and make sure that you only invest when you are confident that your idea can be scaled up to deliver on a commercial scale.

Our services are available to firms of all shapes and sizes from FTSE-listed companies to small firms deep in the supply chain. Our offer is built on:

- ▼ capability which spans basic raw materials through to high integrity product assembly processes
- ▼ world-class facilities and skills to scale-up and prove high value manufacturing processes
- ▼ a network of leading suppliers who contribute to key UK industry supply chains
- ▼ a partnership between industry, government and research in a shared goal to make the UK an attractive place to invest in manufacturing.

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## Starling – paperless work instructions



Starling has grown out of a need in manufacturing to get away from paper-based work instructions. We have created Streamliner, a platform for creating and viewing live electronic work instructions and standard operating procedures in a user-friendly way.

Streamliner can be used on mobiles, tablets and desktops, moving away from traditional paper-based methods. It is designed to be very easy to use and makes work instructions much clearer.

Training against work instructions is built into the system. Training matrices are automatically built and updated when a document changes. This removes the manual process of updating training matrices every time work instructions are updated. Our customers enter audits more confidently knowing that operators only have the latest version available.

A few of the top features from our customers are:

- ▶ Training gap analysis – being able to identify where training shortages are.
- ▶ Videos – they are quick to make and much easier to understand than text.
- ▶ Automated version control – this gives confidence in an audit that everything is up to date.

For enquiries please contact us at [info@starlingsolutions.co.uk](mailto:info@starlingsolutions.co.uk) or call us on +44 (0)1858 322302. You can also find more on our website: [www.starlingsolutions.co.uk](http://www.starlingsolutions.co.uk)

## Securing the Supply Chain

The National Cyber Security Centre warns that UK Firms Face a Rising Cyber Security Threat. 91% of attacks originate from email and the resulting human interaction.

Merseyside based GeDaP (General Data Protected) have released SEE (Secure Email for Everyone) which seamlessly authenticates and encrypts email to mitigate the risks and safeguard the Supply Chain.

Existing mail based on MIME is inherently insecure as it does not authenticate identity, whilst data remains in text format comparable to postcard communication. A software supply chain attack represents an insidious attack, with Phishing, or Spoofing, and Man-in-the-Middle hiding malicious code within software that your users trust. Hackers can smuggle their malware onto hundreds of thousands of computers in a single operation, creating significant costs and irreparable harm to your reputation.

GeDaP SEE is based on S/MIME which is available in all the standard email applications (Outlook, Mac Mail etc) uses PKI certificates (the NATO/GCHQ security



recommendation) from an international QTSP achieving eIDAS compliance. SEE mitigates Phishing and Spoofing categorically establishing a senders identity whilst the content and any attachments are securely encrypted. Available as a Cloud Service or In-House the KeyTalk Certificate & Key Management software requires virtually zero administration.

Contact Ian Young ([Enquiries@gedap.co.uk](mailto:Enquiries@gedap.co.uk))



## Reduce your CO<sub>2</sub> emissions with A|2|O Innovation Solutions Ltd

A|2|O Innovation Solutions Ltd provides various technologies for weight reduction, operational efficiency and CO<sub>2</sub> emissions reduction.

With carbon dioxide emissions remaining a key contributor to global warming, it is essential that they are reduced. Because manufacturing and transportation are significant contributors to these emissions, A|2|O is developing technologies to increase the efficiency of manufacturing processes, simplify the adoption of lightweight solutions and consequently reduce carbon dioxide emissions.

This is achieved through innovative composite material manufacturing processes and material agnostic structural health monitoring, using a system known as CHASM which is currently being developed

into a commercial product.

Often, advanced composite materials are used for weight reduction, and A|2|O is focusing on removing the barriers to the adoption of such materials, by lowering component production costs and increasing manufacturing throughput.

Furthermore, A|2|O's CHASM product enables cost-effective predictive maintenance.

If you would like to find out more information on A|2|O's current ground-



Photo © Science and Technology Facilities Council

breaking technologies, then please visit our website or get in touch using the contact details below.

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## the tech dept

Established in 2004 The Tech Dept wants to release the potential of UK manufacturing. To do this it uses a unique process called The Tech Bootcamp™ which improves digital with less upfront cost, and was featured in the 2019 Parliamentary Review of UK digital best practice.

"We used to help big name companies innovate, but realised our skills were better applied to help manufacturers improve productivity," explains founder and CEO Dan Kirby.

Kirby is keen to highlight the company is not a consultancy, it's a team of software engineers. "We actually make stuff" he says. Indeed, The Tech Dept has some high profile credentials, having built the BBC Children in Need fundraising platform. It then refined the platform based on financial data,

resulting in record levels of donations. They also built the global BAE Systems intranet in collaboration with the in-house IT team.

"We focus on improvement, because that's what you want – not our preferred technology platform – and we take small steps to reduce cost, which we then measure so you see the results," says Kirby. "By doing that over and over you get digital fit. It's actually very easy, but digital consultants and software companies don't want you to know that."

The company has published a book which details The Tech Bootcamp™ method, and other practical insights from fifteen years making digital, which is available to download for free at its web site.

[www.thetechdept.com](http://www.thetechdept.com)

## Engineering & Manufacturing Update



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## Lubrication system for linear guides 'double service lives'

NSK has announced a lubrication system for linear guides that, it says, provide an 'entirely new level of long-lasting lubrication'. The K1-L system succeeds the K1 system launched in 1996 and can supply oil for nearly twice as long, ensuring extended maintenance-free operation.



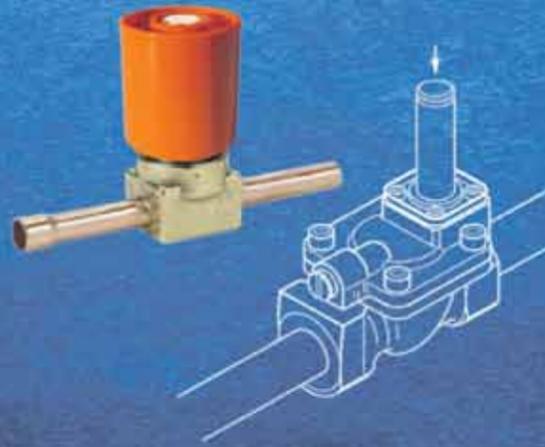
The system cuts resource and energy consumption through long service lives, low friction and reduced oil usage. Relying on regular maintenance to apply lubricant to linear guides is time-consuming and costly, particularly as it requires machinery to be stopped. The new system overcomes this by improving the capacity of the lubricating oil supply, thus extending maintenance intervals. The result is an increase in uptime and productivity, while maintenance costs are cut. A newly developed resin allows oil to be supplied for nearly twice as long as the K1 system. The special shape of the K1-L reduces dynamic friction forces by about 20% when the slider moves along the rail of a guide, while a newly developed protective casing helps to maintain structural integrity and to impede the entry/release of dust and other particles.

Initially, the K1-L will be available for NSK's standard NH and NS series of linear guides, and will be extended to other models in future.

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# Specialist cases to protect your equipment in transit

**P**rotechnic have been manufacturing specialist cases in the UK for over 30 years and during that time have developed a number of unique products that are ideally suited for the safe protection of equipment in transit. Keith Judson MD takes up the story:

It takes a long time to build a company from a standing start and even longer to establish a reputation for quality and service, but I am

proud to say that Protechnic has become one of the industry leaders in bespoke case design and manufacture. Much has changed since the inception of Protechnic some 30 years ago, but we still hold true to our values of continual development and improvement, one of our axioms is that 'you should not let your last good idea be your last good idea' and our expert team of engineers are always looking for ways to develop our products, and incorporate the latest materials technology, our design ethos is to make our cases

stronger, lighter and more cost effective, always with a keen eye on what the customer needs.

In our quest for excellence we have such pioneering products as the Smart Case, Exo Case, Nio Case, MultiPad.

The Exo Case, in particular, is a patented product and is truly ground-breaking in the world of transit cases. We take great pride in the quality and service, and accordingly we are ISO 9015



accredited, and we are fully committed to the concepts of continual improvement as enshrined in the latest ISO standard.

We know from experience that a successful company is not just about great products – it is about the ability to connect with and listen to the needs of our customers. Our bespoke design and finish service enables us to fully customise our solutions to match the technical requirements. It is testament to our customer service that we are still supplying some very longstanding customers from the early days of Protechnic.



Together with our bespoke products, we have a vast range of injection moulded, vacuum formed and roto moulded cases that enable us to offer the perfect solution across many industries including oil and gas, aerospace, MOD, medical, automotive and many more, in fact just about any application that requires the safe transit of equipment. Our capability extends to foam engineering and we are able to specify and design the case interior to suit the requirement, based on the fragility of the equipment to be housed and the shock/vibration characteristics of the application.

Our product designs are driven by our customers, from a simple transit case to very involved designs for transporting highly valuable and delicate equipment. We treat every requirement with the same ideology – what would be the best solution for our customer. There are many drivers in a case design, it may be cost, strength, weight, protection, aesthetics, timescale and we operate in a very wide range of industries that bring their own particular demands, but our skilled team of design engineers will establish the essential criteria in sufficient detail to allow our estimators to offer the most competitive solution. Please contact us to discuss your requirements.

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## Valve Automation & Communication Systems Company of the Month

# A pioneer in valve automation and communication systems

Industry Update is proud to announce that Imtex Controls has been selected as our Valve Automation & Communication Systems Company of the Month. Established in 1990 by Ian Turner, the company is a privately owned and family run engineering and design manufacturing company, run by Ian and his two sons, Paul and Matthew Turner.

Based in Deeside and with offices in the South of England, as well as sales representatives across the UK, Imtex Controls specialises in the production and supply of advanced, high integrity valve actuation, communication and control systems for the energy, marine and process industries.

As a British manufacturer, Imtex Controls prides itself on the quality of its products, striving for only the highest standards to ensure its portfolio is unrivalled in durability and reliability. This also results in its products having a long service life and thus a longer lifetime value. The company commonly receive Camtorc Actuators back only for minor maintenance after around 30 years of service on a rig, a prime example of the longevity of Imtex

Controls' products.

What's more, Imtex Controls always endeavours to ensure its products are unique, and they are designed by its engineers to be specific to each industry in which they are operating. In addition to this, the company offers bespoke engineering solutions for customers who have a specific issue that cannot be solved by off the shelf products.

One of the company's notable innovations is the Camtorc TripGuard. When operators employ shut down valves to prevent dangerous plant conditions developing, the concept of Partial Stroke Testing (PST) has been promoted to improve efficiency, reliability and safety. Unfortunately, many operators choose to not utilise PST capabilities, because of the associated risk of a spurious trip occurring. The introduction of the Camtorc TripGuard eliminates the risk of spurious trips, allowing operators to get the full benefit of PST implementation.

The Camtorc TripGuard has three functional elements that work together: Camtorc Pneumatic Spring Return Actuator, Valvescan VSD Controller, and Dedicated PST Solenoid. It ensures



that the Camtorc actuator operating the valve is never fully vented during PST. Even if a component in the PST system should fail, the actuator is unable to fully close the valve unless the main ESD system de-energises the valve system's primary ESD solenoid. The result is a guaranteed no closure on PST while the ESDV remains fully available for closure in the event of an ESD trip occurring.

With the issue of sustainability on everyone's mind, Imtex Controls is raising awareness of its products within the Low Carbon Energy market. The company is already delivering solutions for this growing market, as its Imtex Valve Communication and Camtorc Actuator products can be employed for use in blue and green hydrogen production systems, carbon capture and storage schemes, biofuel production processes, and waste to energy projects. Certainly, Imtex Controls' products deliver greater efficiencies and sustainability for these projects, helping companies to achieve their low emission targets. In addition to this, Imtex Controls is developing new products to significantly improve the energy requirements associated with automated valves, helping existing industries reduce their carbon footprint while maintaining and improving their plant controllability. Indeed, Imtex Controls is constantly innovating and looking to develop products to address real market challenges and demands, and has recently launched the revolutionary Valve Diagnostics Monitoring System.

This system is a field mounted



device that can fit on any type of actuator and will record the valve's movements and log real-time data to a cloud-based dashboard system.

It can monitor every aspect of the valve and give feedback on its health, so an operator can then determine when it will require servicing or replacing. This is particularly important in preventing unscheduled rig shut downs and ensuring servicing during maintenance windows, therefore allowing the rig to operate more efficiently. Most notably, the system is cheaper than installing a smart monitor and is one of the only systems currently offering this service in such a simple end-to-end system, making it a true IIoT innovation.

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

T 08700 340002  
sales@imtex-controls.com  
www.imtex-controls.com



## Innovative Office Furniture Concepts Company of the Month

# Every concept begins with an idea – and ideas want to be realised



In this issue of Industry Update, we have selected leading company Wiesner-Hager as the recipient of our Innovative Office Furniture Concepts Company of the Month.

Wiesner-Hager was first founded by Josef Wiesner as a carpentry business in 1849. Progressing significantly, Wiesner-Hager has seen many changes since its inception and is now split into two different companies; Wiesner-Hager and Wiehag.

Wiehag develops and designs architectural structures and Wiesner-Hager provides office and furniture concepts.

"We manufacture furniture for the commercial, education, hospitality and health sectors. Increasing efficiency while ensuring that employees are happy in their work environment - these are the pivotal issues we address by designing imaginative office and furniture concepts for our customers. Our scope of services includes Office Consulting, Interior Design, and Furnishing." Michael Lambrianos, Managing Director.

Wiesner-Hager maintains its head office in Altheim, Austria. With a growing global presence, the company has two production facilities in both Austria and the Czech Republic with five subsidiaries in Germany, Benelux, France, the UK and the Czech Republic.



Offering a varied selection of services, Wiesner-Hager provides both stand-alone products and for larger projects, the company can provide an entire solution from consultation to implementation. "We have been able to create products which are unique to the market and win awards." Michael continued, "For example we designed an innovative frame linking & stacking chair (nooi) and have created a new category with our frame linking & stacking table on castors (yuno). The chairs and tables can each be linked together without any additional linking elements so are a favourite amongst Facilities Managers setting up seminar and training rooms. These two products offer clients maximum flexibility, minimum setup time and very little storage space is required."

Working with a multitude of different sectors, Wiesner-Hager has provided services for end users, interiors and fit out companies, universities including- Oxford, Cambridge, Warwick and hotels such as, Accor, Radisson, Hilton, etc."

A noteworthy product for the company is its M.zone. Wiesner-Hager has developed a mould-breaking interior design concept perfectly suited to the agile businesses. M.zone consists of individual elements such as room dividers, modular and standalone furniture pieces, which can be combined flexibly to create new working environments to suit client's individual ideas and needs. M.zone is ideal for a wide range of application areas within the office architecture."

Another product that complements the M.zone is Cage a cabinet system that impresses with its striking design language and authentic blend of materials, cage is the perfect solution for storage space and zoning. Using a great variety of materials, finishes and colours, cage gives designers and architects plenty of scope to create the look they want. In terms of storage space, cage helps to order and organise things, but also serves as a room divider and screen.



Notable recent appearances for the company, Wiesner-Hager has attended multiple tradeshow last year, Michael stated, "we attend trade shows such as Sleep & Eat, Clerkenwell Design Week, 100% Design, designjunction, Independent Hotel Show, etc. Recent ones have gone well and have been great opportunities to network."

Speaking with Michael about the company's future plans, he told us that, "As the parent company continues to grow we plan to create new subsidiaries in Europe i.e. Poland, Romania, Hungary, etc. For the UK subsidiary, we are moving our office/showroom from the fourth floor to a ground floor unit in Clerkenwell. We are forming a partnership with complementary businesses (flooring and lighting) to create a one-stop shop for architects and interior designers."

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

T 0207 490 3627  
London@wiesner-hager.com  
www.wiesner-hager.com/en

104-110 Goswell Road,  
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## A Universal Alternative

**B**ond It, one of the UK's fastest growing manufacturers of sealants, adhesives and building chemicals, has launched a new product to compliment its already growing sealants range.

Super-Mate is a universal, high quality siliconsed acrylic sealant which is an economic alternative to silicone and waterbased sealants. It is suitable for use in a variety of interior and exterior applications and tests have shown that it performs better than many other silicones and sealants currently on the market.

Ideal for sealing in bath rooms and around bath tubs as it is antifungal and has more flexibility than other acrylics, it contains a powerful fungicide to prevent mould growth. It will also seal around timber, metal and PVC window and door frames and fill gaps and cracks in general



decorating applications such as brickwork, stone, plaster and concrete. As it contains no solvents it will also bond polystyrene coving and tiles, cork tiles and wood block flooring.

Super-Mate has excellent adhesion characteristics and provides a permanently flexible long lasting seal which adheres to virtually any materials. It remains permanently flexible, is mould resistant, can be over painted and easily cleaned up with water; no solvents, no isocyanates, no mess - a truly universal product: one tube does all.

For more information on Bond It contact our Sales Team on 01422 315300 or visit [www.bond-it.co.uk](http://www.bond-it.co.uk)

## HARDWARE WAREHOUSE

**H**ardware Warehouse is a UK online retail store, specialising in metal and plastic profiles, sheet metals, hooks and flooring accessories. As well as having a large stock holding, we also offer next day delivery as standard, meaning you get your order as quickly as possible.

With no minimum order value and graduated pricing, meaning the more you buy, the more you save both commercial and domestic customers are equally catered for.

Our products are widely used in numerous applications and industries, including glazers, engineers, designers and plumbers to name a few.

The majority of our profiles are available in 1m and 2m lengths. If you have a commercial address you can benefit from reduced 2m delivery rates by simply registering as a business customer with us. Plus spend £100 or over on 1m lengths (ex VAT) and £150 on 2m lengths (ex VAT) and get your delivery absolutely FREE!

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Leading construction site electricians specialist Site Power UK are pleased to launch their latest 10 KVA 110volt safety Transformer the SITE10 XLC – wound in copper for low temperature operating.



Extra Internal 110volt light circuits give total control through its own dedicated MCB panel. 2 x 16 amp internal outputs for "Hard Wiring" safety lights are becoming the norm in today's building sites.

MCBs are now Site Power UK branded and new hi-spec and colour coded for the voltage i.e. yellow (110 volts output) blue (230 volts input).

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## Buehler celebrates 100 years of Wilson® Hardness

Legacy of Reicherter, Wilson and Wolpert in present-day hardness testing systems

Buehler, an ITW company, is celebrating the 100th anniversary of its brand Wilson® Hardness. In 1920, Stanley Rockwell and Charles H. Wilson, the founder of Wilson Mechanical Instrument Company, presented the Rockwell hardness tester, which subsequently became the industry standard. This was later followed by the legendary Tukon micro-hardness testers for Knoop and Vickers testing. These early inventions paved the way for the developments that are today reflected in the extensive portfolio of Buehler hardness testers and are famed for their user friendliness, full connectivity and high level of automation.

The Wilson® brand, which encompasses the Reicherter, Wilson and Wolpert hardness testers, has, since 2012, been part of Buehler's product portfolio. Julien Noel, General Manager of Buehler, says: "We are proud of our 100-year legacy of Wilson hardness testing. Our products are nowadays the preferred choice for demanding labs that need to meet consistently high quality

standards – in research and education as well as under tough everyday conditions found in industry shop floors. Continuing this long tradition, we will this year launch a new and improved Rockwell tester and further speed up the dispatch of hardness testing systems and hardness reference test blocks."

Contact  
[www.buehler.com](http://www.buehler.com)



## TR-7 Series Simplifies Access to Data

The TR-7wb WLAN data logger with Bluetooth feature is ideal for temperature and humidity monitoring, and designed for those who require a broad range of measurement tasks. Recorded data can be automatically uploaded to T&D's free of charge WebStorage Service, which is accessible anywhere and anytime by computer or mobile devices.

The App 'T&D Thermo' enables the use of mobile devices for viewing data recorded by TR-7wb/nw (wireless and wired LAN) series data loggers, as well as direct communication and operation with the TR-71wb, TR-72wb and TR-75wb via Bluetooth. These applications allow uncomplicated and cost-effective protection of various goods and processes in public buildings, warehousing of sensitive products, and the supervision of laboratories and refrigerators.

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## Laser module for positioning

The ZRX red cross laser from Z Laser projects a red or green cross of up to 5 x 5m at a distance of 4m. This is made possible by two powerful diode lasers in the casing, which ensure a high brightness level.

This robust laser module for positioning tasks can be used in all industries where a highly visible crosshair with thin lines is needed.

Main fields of application include aligning fabric on spreading tables, or CNC milling (for example in the wood industry).

The laser module contains two laser diodes of up to 20mW each. This allows for a particularly visible crosshair to be projected. At the same time, the lines are extremely fine. The integrated power supply guarantees high immunity to interference.

The integrated power supply, together with the robust casing, allow for easy handling of the positioning aid with high immunity to interference. The cross laser ZRX can be used even in very harsh environments.

T +49 761 296 4444  
[www.z-laser.com](http://www.z-laser.com)



## Radar: the better ultrasonic!

Next generation compact radar level sensors look destined to change level measurement in the water and wastewater industries.

New 80 GHz radar level sensors dedicated for the water and environmental sectors has been launched by VEGA. These 80 GHz-based sensors are priced to meet the commercial needs and applications in the sector with no compromise in capability. They use precision focusing to deliver accurate, reliable measurements, such as temperature, weather; fouling and they have no blocking distance.

This sensor is small sized and loop-powered – available as a compact fixed (IP68) cable connection or with a housing and display. The FMCW-based VEGAPULS 80GHz instrument series has LPR approval and can measure liquids or solids up to 30m with fast start up for battery power (SDI12 and Modbus). The range has optional new VEGAMET 800 series field controllers for level, flow and pump control.

All sensors and controllers can be adjusted and viewed via Bluetooth with a free App on smartphone or tablet, to make setup and diagnostics easier, safer and faster, especially in harsh environments or in hazardous areas.

Find out more and book a demonstration or trial at: [www.vega.com/vegapuls](http://www.vega.com/vegapuls)

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MRU - Messgeräte für Rauchgase und Umweltschutz GmbH  
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[www.mru.eu](http://www.mru.eu)

## New multifunctional detector for gases & refrigerants

MRU GmbH proudly presents their newly designed multifunctional Model 400GD measuring device, with hot plug and play sensing modules for multiple applications such as refrigerant and combustible leak detection, air conditioning and ambient CO or surface temperature measurement. The push-pull sensor modules are automatically recognised and the colour, graphic type display will adapt accordingly. The user adjustable alarm threshold will trigger a red LED on the sensing module together with a haptic vibration of the base device (for leak detection). Power Li-Ion battery, rechargeable via mini-USB, ensures up to 20 hours of operation, while measuring results can generate a QR code for data transfer over a smartphone.



More information online:  
<http://ilmt.co/PL/WEpa>

## Smooth performance in medical applications

Gearing motors deliver smooth performance for small bone orthopaedic applications

Surgeons performing small bone orthopaedic surgery need total control over the tools they're using. In an environment where success



and failure can be measured by millimetres, there is no margin for error. Portescap has released three new surgical motors designed for orthopaedic saws, drills and reamers. The compact motors offer controllable, precise torque and have been tested to withstand 1,000+ sterilisation cycles.

Orthopaedic surgery is a broad category that treats a range of musculoskeletal conditions arising from trauma, sport injury, bone diseases, degenerative diseases, infections, etc. Where procedures are performed on small bones – such as vertebrae or those found in radiocarpal or talocrural joints – precision is key with every action. The surgical tools used need to deliver power in a smooth and

controllable manner to ensure a positive outcome for the patient.

Portescap is a leading manufacturer of miniature motors for performance-critical applications. It's at the forefront of sterilisable motor technology; having committed decades to research and development in the medical fields, its motors have been used in millions of surgeries around the world. The latest additions to its range have been designed specifically with small bone orthopaedic applications in mind. The B0912N1016 small bone motor (9.6V, 38k rpm), B0912N4023 small bone gearmotor (9.6V, 1.1k rpm), and B0912N4024 small bone gearmotor (9.6V, 12.8k rpm) are sterilizable brushless DC (BLDC) motors that

provide optimal torque and speed for drills, saws and reamers. They are well-suited for traditional surgical tools – in addition to robotically assisted surgical devices – and can be paired with a Portescap sterilizable controller for battery powered applications.

The motors deliver high peak torque capable of powering through the densest bones and feature customisable voltage to accommodate precise control for the surgeon. The 22mm diameter motors are lightweight and produce low noise and vibration to improve the ergonomic comfort and control in the hand – essential in long surgeries where fatigue may set in. To ensure reliability and cost efficiency the motors have all been tested to withstand

1,000+ sterilisation cycles as well as exposure to saline and other foreign materials.

For design engineers looking to specify one of the motors in a prototype, standard motors are available with a short lead time. Where a customised solution may be required, Portescap's R&D engineers are well-versed in medical device integration and are eager to collaborate. Typical customisation options may include hollow/cannulated shaft designs for wire drivers, custom shafts or housings or bevel gears to provide positional flexibility within the tool.

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## Compact and precise linear rail guides

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MAKERS IN MOTION

Ewellix, formerly SKF Motion Technologies, has launched a series of compact precision rail guides that are low noise, have precision accuracy and require minimal maintenance due to self-lubricating features for industrial and laboratory applications.

The all-stainless steel LLS Series includes a unique ball retention plate at the bottom of the carriage for additional robustness as well as a ball recirculation system that facilitates easy and secure carriage mounting by ensuring that the balls are retained in place during assembly and storage.

The carriage is factory pre-lubricated and a reservoir supplies long-term guide rail lubrication, for smooth operation. The carriage end-cap seals have also been specially designed to ensure that contaminants are excluded.

T +44 (0)1582 496747  
www.ewellix.com



## Tecan unveils Cavo<sup>®</sup> Magni Flex for next generation automated liquid handling development

Tecan has launched the modular and scalable Cavo<sup>®</sup> Magni Flex OEM robotic liquid handling instrument development platform. Offering the flexibility and functionality to quickly and easily create innovative platforms for virtually any life sciences application, this system provides the core robotic architecture for the development of complete automation solutions.



The platform's liquid handling arm is available with a choice of two, four or eight independent pipetting channels, offers variable tip spacing capabilities, and can act as both a pipettor and gripper. The highly configurable workdeck and broad choice of carriers, cutouts and custom grids to accommodate a wide range of labware formats and devices. Supplied with Tecan's MAPlinx™ development software kit, the Cavo Magni Flex aims to accelerate instrument development and time to market.

To learn more about Tecan's Magni Flex, visit  
www.tecan.com/cavo-magni-flex-modular-and-scalable-development-platform

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## Condensate kit designed by heating engineer

Invented by heating engineer David Smith, Condensate Pro prevents condensate pipes freezing in low temperatures.

Available in kit form to fit any installation (grate, rainwater, soil pipe and soakaway), with specially designed UV/water resistant lagging and seal and bond adhesive, all products fit on to 32 or 21.5mm overflow pipes.

Condensate Pro is said to be quicker and easier to install than alternative methods, lasts longer and can also be maintained by applying a maintenance coat when servicing the boiler.

"I invented Condensate Pro to help installers make sure boiler breakdowns are not due to a frozen condensate," explains David Smith. "The trade had some bad press when the 'Beast from the East' struck and tens of thousands of homes were left without heating because of this issue. I have designed the product specifically to help installers save time and cost and to look professional."

"Condensate Pro protects the installer, their customers and the boilers which breakdown due to condensate pipes freezing."

[www.condensatepro.co.uk](http://www.condensatepro.co.uk)



## Coolair appointed for landmark office development in Gloucester

Air conditioning specialist Coolair Equipment Ltd is to bring the latest energy efficient heating and cooling technology to a stunning new landmark office development in Gloucester.

The company's Midlands office in Cannock has secured a contract worth more than £300,000 to install an air conditioning system with heat recovery that will simultaneously heat and cool different areas of the building forming the new apex of Gloucester Business Park at Brockworth.

The commission from M&E building services contractor Spie UK is aimed at creating a three-storey building that is both visually exciting and technologically advanced.

Coolair Equipment will equip the building with a new Hitachi IX VRF (variable refrigerant flow) system combined with Daikin DX (direct expansion) condensers to serve the building's AHUs (air handling units).

The VRF systems will deliver exactly the right amount of refrigerant to ceiling void ducted FCUs (fan coil units) which in turn will diffuse air at the required temperature to achieve a comfortable climate in each room all year round.

The discreet, quiet running and energy efficient system is specially designed to use the rejected heat from cooling sun-facing spaces to heat non-sun-facing areas simultaneously. It also has the added advantages of reducing the building's carbon emissions and keeping operating costs low.

T 0161 342 6905

[www.coolair.co.uk](http://www.coolair.co.uk)



## Adveco Extends MD Boiler Range

Hot water and heating specialist Adveco, adds 10 new high-efficiency wall-mounted models to its popular MD condensing boiler range, with rated heat outputs of 15, 24, 34 and 60 kW for light commercial applications.

The wall-mounted variants of the MD offer the same high-quality patented titanium stabilised stainless-steel heat exchanger construction for exceptional strength and corrosion resistance, ensuring greater longevity. All the MD boilers feature efficient pre-mix burner technology to help control operational costs and significantly reduce NOX and CO emissions.

The MD15, MD24 and MD34 have two variants to accommodate either central heating only or DHW via an indirect water heater.

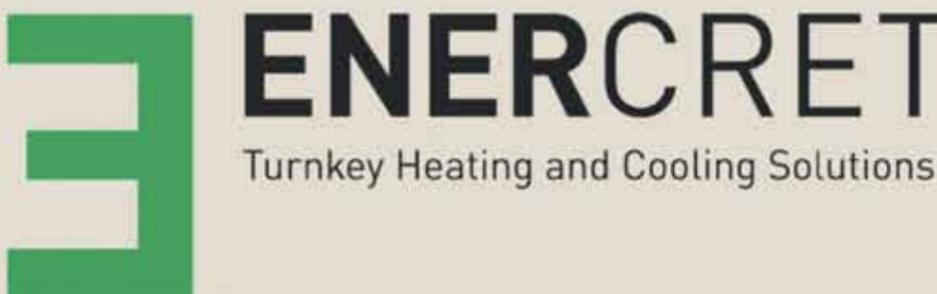
A third variant of the MD24 and MD34 includes an integrated Plate Heat Exchanger for instantaneous DHW. The 60kW heat output MD60, available with or without an integrated system pump, is designed to meet the demands of commercial central heating.

Unlike many wall-mounted boilers, the compact MD offers integrated run/fault signal for connection to a BMS system. With 0-10 V input on the MD, a BMS system incorporating interior/exterior sensors can deliver automated heating control.

The range is supported by a seven-year parts and labour warranty when boilers are commissioned by Adveco.

[www.adveco.co](http://www.adveco.co)





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**ENERCRET** are market leaders in the design, installation and maintenance of turn-key geothermal heating and cooling systems.

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Founded in 1981 and with 1078 completed projects, covering 26 countries, **ENERCRET** has the experience and capability to reliably deliver innovative solutions.

Following the successful delivery of two major projects in Cambridge, **ENERCRET** has now established a UK office to continue our impressive growth.

With the continued drive to reduce carbon emissions and the attractive government incentives, geothermal technology provides the ideal solution for serving building heating and cooling energy needs.

**ENERCRET** are introducing specially developed 'shunt' technologies to the UK which maximise heat pump efficiency and simplify system operation. These technologies are based on our experience world-wide experience.

The **ENERCRET** group also comprises a specialist business, BMS Consulting who are experts in optimisation and trouble-shooting building services installations



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for many years. Despite all of the uncertainty surrounding Brexit and other international issues, we remain dedicated to growing and expanding to ensure we are always giving our customers the latest advancements in ergonomics and technology." Mark Curtis said.

One of the main benefits of Vision Engineering's equipment is its ease of use for operators. Designed to enhance the operator's productivity, Vision Engineering's equipment is the perfect tool for a more efficient, durable and productive work experience. "Microscopes that use an eyepiece require users to hold a fixed viewing position, which can lead to stiffness in the neck muscles." Mark explained, "Typically, the operators of this type of equipment will be doing repetitive tasks for up to eight hours a day, so Vision Engineering's guiding principle has been making sure that its equipment is easy and comfortable to use for long periods of time, thus improving operator comfort and efficiency."

Vision Engineering's eyepiece-less equipment is an example of how the company listens and responds to the needs of the market; creating equipment that enhances efficiency



the drive for real time communicability found in the Internet of Things (IoT) and Industry 4.0."

Mark continued, "We are sharing the information that our products generate, making it available to people no matter where they are, enabling new opportunities for valuable collaboration whether the other person is in the next room or the next continent. The DRV's sharing capability creates exciting opportunities to collaborate with real time digital connectivity from multiple locations across the globe." After a successful year for the company, we spoke to Mark about how Vision Engineering feels upon receiving this award, he told us that, "2019 has been a real success for Vision Engineering both in terms of our new product launches and also the market reaction to our innovative new technologies. It has been a year of recognition of our technological achievements, particularly with DRV and also validation of our guiding 'user-centred' philosophy and exemplified by this award for our company. We are delighted to receive Business and Industry Today's 'Company of the Year' award – what a great way to round off 2019!"

For any more information please see details below.  
T 01483 248300  
www.visioneng.com



**W**ithin this issue of Industry Update, we have recently selected Vision Engineering as our Optical Instrumentation Company of the Year for their ongoing commitment to providing the market with the most technologically advanced, ergonomically optimised optical and digital inspection and metrology technology.

Vision Engineering is a global, leading-edge manufacturer of unique ergonomic stereo microscopes, digital 3D visualisation equipment and non-contact measuring systems. Vision Engineering has over 60 years of experience, starting out as a specialist optical sub-contractor for large British companies including Rolls Royce, Vickers, Ferranti and GEC, the company has seen consistent growth since its inception.

Founder Rob Freeman started out as a toolmaker, working as a race mechanic with the Jaguar Racing Team. Whilst at Jaguar Rob developed an optical instrument called a borescope, for the inspection of internal race engine parts without the need to dismantle the engine. In 1958 he established Vision Engineering as a platform to develop his growing passion for optics applied to manufacturing technology.

Vision Engineering has subsequently established a well-earned reputation for developing and manufacturing revolutionary optical equipment. One of Vision Engineering's most notable products is Mantis; the world's first stereo microscope without an eyepiece, introduced in 1994. Mark Curtis, Vision Engineering Managing Director comments "The Original Mantis filled the gap between a bench magnifier and a microscope. Mantis was an ergonomic leap forward in optical inspection technology, going on to win numerous design and innovation awards. In a very short space of time Mantis became the benchmark for high performance stereo magnification, and since then, Vision Engineering has consistently developed leading-edge stereo inspection and metrology products to improve productivity and quality for many thousands of customers".

Since creating this unseen before, innovative stereo microscope, Vision Engineering has consistently challenged

the capabilities of optical instrumentation and has received ongoing industry recognition for their equipment. In 1996, Rob was awarded the MBE, in recognition of his services to the British optical industry.

Located in Send, Surrey, Vision Engineering now operates from an impressive state of the art manufacturing facility



and offices, opened in 2017. In addition to the UK site, Vision Engineering also has multiple overseas subsidiaries in countries including America, France, Italy, China, Japan and India. The company also has a global network of fully trained distributors.

With global reach and a clear market advantage in its field, Vision Engineering is at the forefront of optical instrumentation technology. Providing the highest performing, comfortable and easy to use ergonomically optimised inspection and metrology equipment, Vision Engineering provides solutions for a whole host of different industry sectors, including: manufacturing, electronics, automotive, aerospace, life science, medical device manufacture and many more. "As an international company with over 230 staff members, 120 in the UK and the rest located in numerous locations globally, we have been exporting successfully

by enabling users to have an easier observation without needing to precisely align their eyes with eyepieces. Greater freedom of movement is allowed which leads to more relaxed muscles, reducing the risk of neck and back strain. Another notable benefit of the equipment is that ergonomically optimised microscopes reduce eye fatigue, improve hand-to-eye coordination, and minimise the risk of repetitive strain injuries. Mark stated that, "Vision Engineering is a company fuelled by progression and innovation, ensuring our products are designed to deliver optimal working conditions for its customers".

This year has seen some significant achievements for the global company; speaking with Mark he detailed some of the best achievements and new developments for Vision Engineering, "2019 has been an exciting year for new product launches. The launch of our innovative new glasses-free digital 3D visualisation technology, Deep Reality Viewer (DRV), has seen us move the visualisation and inspection markets forward in a completely new way. DRV delivers digital stereo 3D imaging in a unique, advanced presentation system providing fully interactive real time natural 3D viewing and visualisation with outstanding depth perception.

Not only is the long-standing conundrum of glasses-free digital 3D viewing solved, but DRV also opens up new collaboration opportunities through its ability to send and receive 3D HD digital images across digital networks in real time. This revolutionary, next-generation 3D technology is a result of Vision Engineering's sustained investment in optical and digital R&D. We've also strengthened our metrology portfolio with the launch of our first fully automated 3-axis video measurement system, the LVC 400. It's designed to measure large components or multiple small components, quickly, easily and accurately, and, in keeping with our core principles it offers faster measurement and high accuracy levels, combined with ease of use for operators."

In terms of the company's future plans, Vision Engineering is dedicated to making 2020 another year of innovation and new product availability. Continuing its dedication to research and development and pushing the boundaries of optical technology, Vision Engineering has some exciting new product launches lined up for the New Year. "It's an exciting time in our markets at the moment. Without question DRV is the next big thing, and we are taking this technology and addressing



# Perfect your Energy Management Skills with Prefect Controls



In this issue of Industry Update we have selected Prefect Controls as our Energy Saving Solutions Company of the Month for their specialist energy management systems.

Established in 1997 by Glen Golding, Managing Director, Prefect Controls designs, manufactures and install's energy management systems to

control heating, hot water and lighting systems. "We design, manufacture and install energy management systems for multi-occupancy dwellings such as student accommodation and hotels, along with controls for heating, lighting and other electrical apparatus that needs switching such as electric hobs." Adrian Barber, Marketing Manager.

Providing the multi-occupancy accommodation sector with effective energy management, Prefect Controls enables landlords and property management companies to reduce fuel bills and carbon emissions. "We know that a lot of energy is wasted, particularly in student accommodation, because it isn't controlled effectively." Adrian added, "Our products ensure energy is only used when it is needed and save our customers money in terms of energy use. All of our products are also simple to use and easy to install."

In terms of its products, Prefect Controls maintains three product ranges: Hobsafe, Ecostat and Prefectirus.

The Hobsafe range is a great tool for limiting the amount of time a hob can be left on and

reducing fire risks. The importance of this potentially lifesaving product is especially useful in accommodation or close living quarters where fires may spread quickly. "Hobsafe is a timer that prevents hobs being left active should the food preparer be distracted, i.e. students coming in late at night, putting some beans on to heat and then falling asleep!" Adrian said.

The Ecostat range of controls provides in-room temperature adjustments by the occupant, but only within set parameters. "The range has units that use PIRs to detect absence or presence, so that heat can be reduced if rooms are unoccupied and set back to lower temperatures. This is extremely useful for longer periods of absence such as Christmas breaks."

A great feature of Ecostat is that it can detect any windows that are opened and reduces the heat input. "It also has a 7-day 2-event programmer, however most accommodation managers prefer the 3 stage Boost, Comfort and Frost modes to maximise energy savings."

Prefect Irus is the company's flagship product that has been specifically designed for Student residences. It provides accommodation, energy and compliance managers with the tools to monitor temperature, lighting, humidity, CO2 and decibel levels. Ensuring energy is only used when needed, Prefect Irus allows users to monitor and

make adjustments from anywhere with internet connectivity through an easy to use web-based portal.

"Prefect Irus is proven to save 35% - 40% on energy costs and ensure students enjoy environments conducive to study. Prefect Irus also monitors other environmental conditions such as air quality, light and sound levels." Adrian elaborated, "By measuring humidity and CO2, Prefect Irus can detect illicit cooking apparatus in rooms that don't have kitchen facilities, likewise by being able to 'see' the temperature inputs into rooms, unauthorised fan heaters can be detected and removed, both of which are safety issues in terms of fire risk."

Prefect Irus is the perfect way to make sure that occupants are living in comfortable conditions while maintaining and adapting their energy use. Prefect Irus enables users to control the temperature within individual rooms, switch heating on and off at predetermined times, measure energy use, detect open windows and unoccupied rooms and adjust the temperature accordingly.

Energy saving is complemented with maintenance benefits such as, detection of faulty third-party components and leak detection, while compliance reporting satisfies water safety plans.

Speaking of the company's plans for the upcoming year and indeed the future, Prefect Controls has new projects lined up for 2020 and is constantly striving to provide more innovative and effective energy saving solutions for its customers. "As Prefect Irus is a software product, there are always new features and improvements in the pipeline, 2020 will see the web-based portal have a significant facelift to



make it more intuitive and user friendly." Adrian continued, "We are also developing the next generation Prefect Irus and Ecostat systems but not too much can be said about that at the moment!"

A noteworthy recent appearance for the company, Prefect Controls was in attendance at the AUE show, Adrian expanded that, "The AUE show in September 2019 was very fruitful, with good contacts being made and new opportunities presenting themselves."

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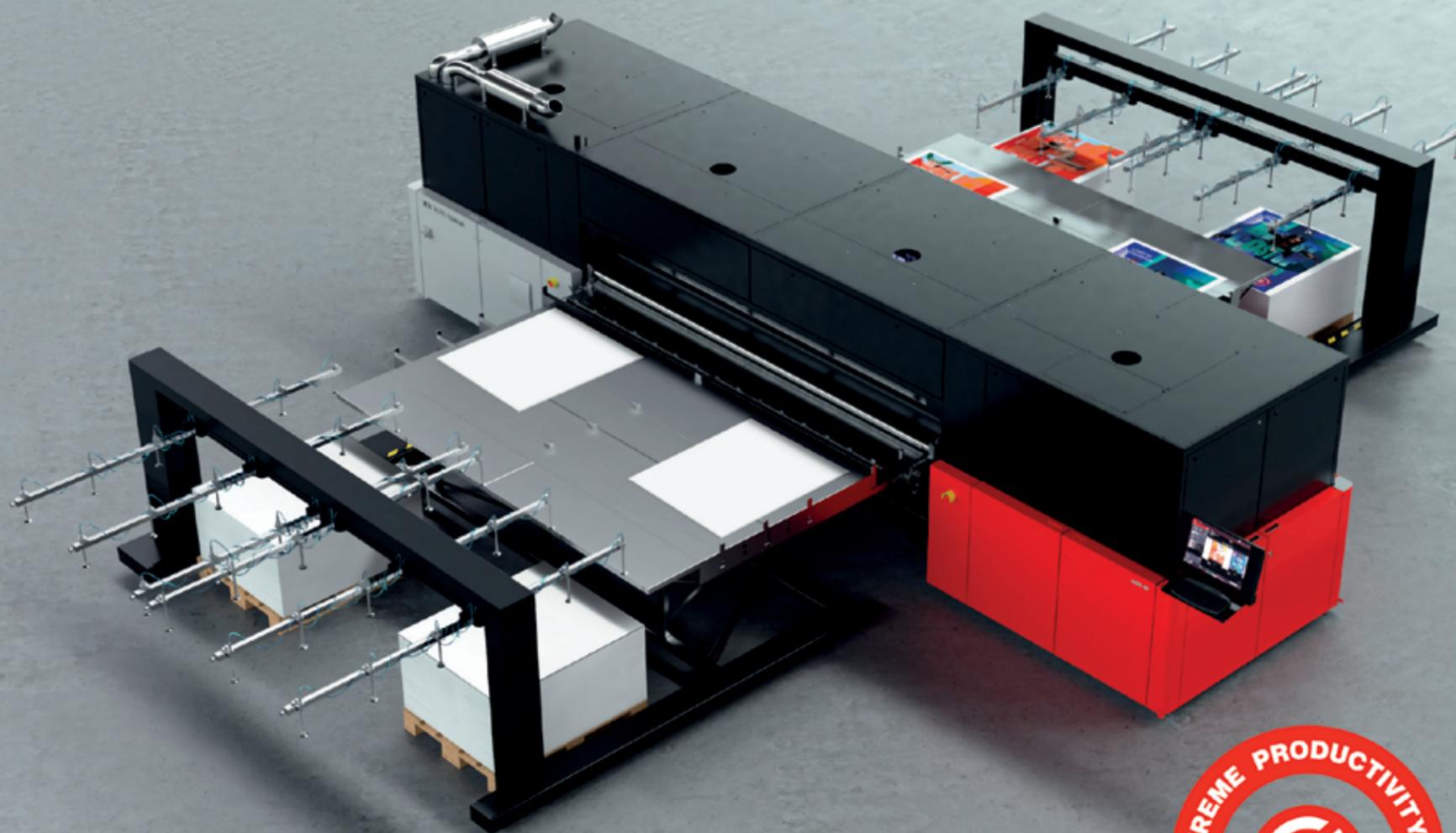
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