Clamp down on EMC shielding and earthing issues during panel building

If problems resulting from electromagnetic interference are to be avoided, correct cable shielding and earthing is essential.

With such a high potential for interference across so many different equipment types and installations, it is important to be able to select the most appropriate and reliable components for EMC shielding and protection. Electromagnetic interference can come from many sources and can be either natural or man-made. Either way the outcome can be the same - equipment malfunction or failure, loss of data or other more serious events.

In safety critical applications, or other areas for example, where process measurement and control equipment is being used, a greater level of EMC shielding and earthing is required to protect against interference and subsequent failure. The area where the cable shield is connected to the cabinet earth is a critical point.

Buttkereit is a distributor for a wide range of high quality EMC cable clamps, suitable for cable diameters from 1.5mm to 48mm. Buttkereit’s range of cable clamps come in a number of variants including clip on types, where the shield clamp can be snapped onto a 35mm DIN rail without the use of tools.

There are also a range of direct assembly types where the shield clamp can be screwed directly onto the mounting plate.

Both types are available in a range of materials including: zinc plated spring steel and nickel plated spring steel.

www.buttkereit.co.uk
**Pure innovation in telemetry & control**

Industry Update proudly introduces you to Churchill Controls Ltd, our Editor Recommendation for their continued pursuit of excellence and innovation within the Telecommunications Equipment sector.

With over 30 years’ experience, Churchill Controls is the UK’s leading design and manufacturer of low power radio telemetry systems.

Founded in 1976 by John Churchill, based at Crowthorne, Berkshire, Churchill Controls have been manufacturing cost effective solutions to the problems of monitoring and controlling remote industrial plant and processes. The original products used leased telephone lines to send signals to and from a single transducer. In 1993 the Department of Trade and Industry recognised that UHF radio could effectively be used for short-range telemetry applications, and de-regulated certain channels so that licences weren’t required. Churchill Controls were quick to identify the opportunities this represented and developed appropriate products.

We interviewed Ian Keen of Churchill Controls about the company and their innovations. “We pride ourselves on the high level of customer technical support and spares/repairs backup we provide to our customers, including previous generation and legacy products.”

Supplying their products all over the UK and Ireland, Churchill Controls proudly distribute to water companies and their electrical contractors, giving their company that incredible seal of approval.

When asked what benefits their products bring to the market compared to the competition, Ian instantly commented, “Our long established pedigree and knowledge create flexible, versatile, self-contained, easy to install and ready to go out of the box products that do exactly what’s required.”

Their latest innovation, the Mega_Link telemetry system (which is enhanced and partnered with the Mega_Bridge IP communicator), is a low-cost, versatile telemetry communication system for passing two-way instrumentation, measurement and control data between industrial plant and equipment, distributed over wide geographical areas and remote locations.

“Our new product, ‘Mega_Bridge’ adds flexible and fully featured internet protocol (IP) connectivity to the well-established Mega_Link family of telemetry & control units used to pass two-way instrumentation, measurement and control data between equipment and industrial plant. IP connection scenarios range from simple self-contained Local Area Networks (LAN), Wide Area Networks (WAN) to multiple networks anywhere across the internet for distributed geographical areas and remote locations.”

Instead of a USB cable connected from the user’s laptop running Churchill Controls’ DUCK monitoring and diagnostics software, the laptop’s USB port is connected to a Mega_Bridge unit operating in DUCK_Bridge mode. The Mega_Bridge will handle the setting up of a secure communication path via VPN, with a dedicated message server to each of the respective Mega_Bridge units, wherever they may be located in the world.

This incredible innovation was possible thanks to an impressive collaboration.

“For the past 18 months we have been engaged on a Knowledge Transfer Partnership (KTP) project with The University of Reading, part funded by Innovate UK. This collaborative project has provided the R&D to develop an Internet Connectivity option for our latest Telemetry and Control product range called Mega_Bridge.”

You can see all this and more at the Sensors & Instrumentation show at the NEC on the 25th & 26th September 2018, where Churchill Controls will be demonstrating their products.

**Contact**

T +44 (0)1344 750233  
sales@churchill-controls.co.uk  
www.churchill-controls.co.uk

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**Warm air heating steps up to the mark**

The new WarmCair range of condensing warm air heaters from Johnson & Starley meet the latest European Commission directives for heating, and with heat-only options from 19-48kW in both up and down flow models, there’s a replacement to just about every standard efficiency warm air heater.

The WarmCair DW system of combined warm air heating and domestic hot water ranges from 10-20kW. All WarmCair heaters come with a five-year guarantee as standard.

The Cleanflow electronic air filtration systems are compatible with all of Johnson & Starley’s warm air heating ranges. The Cleanflow filter can remove airborne particles down to 1 micron, including cigarette smoke, and helps with allergies to pollutants such as dust and pollen.

The increasingly popular QuanTec and Aquair package offers flexibility and incredible efficiencies. With a QuanTec boiler and Aquair heat emitter, a warm air system can be replaced. The boiler can be sited away from the Aquair, making installation easy and, if a combi boiler is used, there’s no need for a hot water storage tank, saving space yet still utilising the existing ducting to supply almost instant warm air throughout the property. The QuanTec boiler carries an eight year parts and labour guarantee.

T 01604 762881  
marketing@johnsonandstarley.co.uk  
www.johnsonandstarley.co.uk

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**Editor Recommends**
New product innovations from NSF Controls

With an advanced approach to product development, engineering and technology, NSF Controls is a UK leading designer and manufacturer of solenoid, switches, and a specialist provider of customised electro-mechanical control services.

Globally, its solenoids and switches are used in defence and security applications, for automotive, utilities, medical and leisure functions, and breakthrough industrial and commercial automation.

Offering the widest range of solenoids and switches from a single source anywhere in Europe, the company’s knowledgeable in-house product experts help customers to design, select & source the most suitable products to meet application requirements.

Recognised for superior quality and reliability, NSF Controls’ specialist components provide a foundation for the development of bespoke solutions, driving forward technological breakthroughs that improve performance and capability of client products and services.

From minor modifications to custom designs for progressive new applications, NSF Controls’ wide-ranging expertise in play extends to integrated manufacturing and assembly skills enabling all aspects of development to be progressed in-house, with 90% of output, customised.

Innovative product developments from NSF Controls include:

- **Shut-off valve solution for smart meter manufacturers**
  - Delivering a more compact, cost-effective solution for smart meter manufacturers, NSF Controls’ shut-off valve was developed originally to meet a new requirement to regulate gas usage. It can be engineered to meet requirements and applied across a diverse range of utilities meter applications, as well as utilising the drive mechanism in other positional locking device uses. There are two successful values in operation for smart meter applications suitable for installation to either the outlet or inlet port with a customer-specific interface.

- **Non-sequential one-stop control gives vast tonal flexibility for electric guitars**
  - Another product innovation from NSF Controls and a revolution for electric guitarists is the Free-Way A-Position Toggle Switch, which can be installed at manufacture or retro-fitted. Delivering vast tonal flexibility from a single control, the guitar is able to select any of the instrument’s pickup settings non-sequentially.
  - When the Free-way switch is fitted, the guitar maintains its classic looks and condition, and the pickup selector feels like a normal 3-way toggle giving neck, bass and bridge selection. In addition to its revolutionary non-sequential action, the Free-Way Switch also moves into another three forward positions opening up a whole new dimension in natural tone.

- **SGV Series is a bi-stable solenoid-operated gas shut-off valve.**
  - The MGV Series is a motorised gas shut-off valve whilst the SAV Series is a bi-stable solenoid-operated gas shut-off valve. To find out more about them, visit: www.nsfcontrols.co.uk/
    - Our-products/shut-off-valve

- **Wheelchair Winch Assist for Wheelchair Accessible Vehicles (WAV)**
  - NSF Controls also develops products as a result of market research and one such product introduced as a result is Wheelchair Winch Assist for Wheelchair Accessible Vehicles (WAV). Wheelchair Assist helps both carer and wheelchair user. Specifically produced for supply to manufacturers and vehicle converters, specialising in the adaptation of standard vehicles into wheelchair accessible vehicles, Wheelchair Assist is suitable for cars, vans, and minibuses. Manufacturer to meet the highest standards, NSF Controls’ Winch Assist design can also be modified to create a bespoke design for more specific requirements.
    - Visit: www.nsfcontrols.co.uk/our-products/winch-assist

For help selecting the most suitable product to meet your specific requirements and, if required, assistance with the design and manufacture of a customised solution, please contact our specialist Design & Engineering Team:
- +44 (0)1535 661144 or email: info@nsfcontrols.co.uk

Cleaning & Facilities Management Update

From floor scrubber to director

A TCFM employee has progressed from a floor sweeper to a contract director – Jeff Lloyd-Jones (pictured) shares his experience.

“In the mid-1990s I was studying at college doing a course in computer science. To earn some extra money, I started working for TC Contractors, as we were known then. I worked on a temporary, part-time basis where my main duty was operating the floor scrubber at a store near Marthym Tydd. After completing my IT course, I started working full-time for a medical supplies company in an IT role.

“I did this job alongside my cleaning operative role. My manager at the time at TC Contractors told me that he had ‘seen something in me that inspired him’.

“During this time, I was particularly struck by the family feel to the company. I took the decision to come and work for TC Contractors full-time as an In-Store Manager after meeting Trevor Cripps, the founder, and his son Simon in the late 1990s. Not only was the money better but the hours with early mornings and late evenings. Having started as an In-Store Manager I have had a number of varied and interesting roles including area manager, project manager, regional manager, divisional controller and as contract director I am now responsible for the complete Tesco Retail account across the UK.”

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Keep cool under fire

It was the end of a typical day for Paul Roberts, security officer at a large building in Cambridgeshire, where he is part of the team from TC Security Services who provide manned guarding services.

The building is a new complex that is nearing completion and will become home to the 3,000 staff who are currently located in a number of buildings.

Paul was waiting to handover to the officer who was coming on duty at 6pm. They were running a little late so Paul had agreed to stay on until they arrived.

While he was waiting, one of the team working on the construction came rushing to the reception desk to alert Paul that there was a fire in the building. The fire department were called to attend.

Paul’s quick thinking led him to contacting the officer who was coming on duty, asking them to block off the building to prevent anyone entering. Paul and a construction worker worked together to clear the building floor by floor pointing the 30 so people on site at that time to safety.

The CEO of TC Facilities Management, Tony Reed, recently visited Paul to express his thanks on behalf of TC Security Services for his sterling efforts.

Rachel Donnely, client contact at the site, said, “A huge thank you for the way you handled the situation at site last month. The way you went above and beyond by lending your assistance to clear the building was exemplary.

“In taking charge and handling the situation in the way you did, you embodied the ‘one-team’ approach that we as an employer feel is so important to both internal and external staff. You are a true asset not just to TC Security Services but to us too.”

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TC Security Services awarded 100% Achilles audit

Following a rigorous 2 day assessment, TC Facilities Management (TCFM) has successfully completed its ‘Achilles’ annual audit for the third consecutive year. The audit saw a score of 100% being awarded for the evaluation of TC’s operational capability, and compliance. The auditor was particularly impressed by:

- Our down-to-earth approach, our commitment to our clients’ and employees’ safety.
- Our achievements in developing a fully integrated training matrix in use by all our staff.
- Griffin principles which started out as a fire in the building. The fire部主任 were called to attend.

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Visitors and exhibitors enjoy an action-packed three days

The biennial HVAC & Refrigeration Show took place at London’s ExCeL from Tuesday 23 to Thursday 25 January 2018. Organiser Datateam Business Media opted for a new London venue – which proved to be a huge success, with over 10,000 visitors coming through the doors over the course of the three day exhibition.

The move to London’s ExCeL and implementation of exciting new show features were crucial in drawing in a highly-targeted audience. As well as catering for the high concentration of business taking place in the south, the new venue also made the show more accessible to international visitors, leaving exhibitors impressed with both the quantity and quality of the visitors.

Visitors were able to explore thousands of products on offer from market-leading companies under one roof, providing an inclusive hub for all refrigeration, air conditioning, ventilation, heating, and heat pump requirements.

The show also offered unrivalled knowledge, with over 20 highly-attended CPD accredited seminars and the brand new Industry insight series, which allowed individuals from across the HVACR sectors to engage with a panel of experts on key topics including well building and the future of refrigerated transport.

The HVAC & Refrigeration Show will return to London’s ExCeL from Tuesday 23 to Thursday 23 January 2020. This is our pick of the best exhibitors from this year’s show, listed here in alphabetical order. First Choice Group. Further details can be found on the right.

www.hvacrishow.com

First Choice Group’s appearance at HVACR was a resounding success

With our impressive stand pitched right at the front at the entrance to the show at ExCeL London, we enjoyed three days of busy network engagement which really helped to put our refrigeration spares on the map.

Our ambition as a translation agency is to simplify our customers’ everyday lives by offering technology that streamlines the translation process. We have access to the appropriate linguists plus the internal expertise to help you in all areas via flexibility, availability, speed and quality.

With Amesto, you can rest safe in the knowledge that your translation has been quality-assured and will be of a high professional standard. Our customer satisfaction rate of 99.97% shows that we deliver far-reaching event campaigns yet.

The show returns to London’s Olympia from 26-27 September 2018. This is our pick of the best exhibitors from last year’s show, listed here in alphabetical order: Amesto Translations, Product Data Lake & 3PL Fulfilment. Further details can be found here.

Contact: Richard Loyer
T +44 (0)20 3290 8620
email: enquiries@amestotranslations.com

product data lake

Product Data Lake is a Cloud service for sharing product data in the business ecosystems of manufacturers, distributors, merchants, marketplaces, and large end users of product information.

81% of shoppers will leave a webshop with incomplete product information. The root cause of this problem is dysfunctional sharing of product data in business ecosystems, with the result that only 5% of organisations today share all their product information with supply chain partners.

Join the intersection of Big Data and Product Information Management

As a manufacturer, you can sell more and reduce costs by utilising our Product Data Push service.

As a merchant, you can sell more and reduce costs by utilising our Product Data Pull service.

www.productdatalake.com

Business translation

Do you need to reach your customers in the language they speak? With over 600 translators specialist in over 2,000 language combinations, we are sure to find the right solution for your needs.

Contact: Richard Loyer
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email: enquiries@amestotranslations.com

First Choice Group's appearance at HVACR was a resounding success

www.ecommerceexpo.co.uk

The UK’s only exhibition covering the entire breadth of e-commerce

eCommerce Expo, held at London’s Olympia from 27-28 September 2017, connected over 5,000 e-commerce retailers and brands with providers of the newest eCommerce technologies. Along with an inspirational conference programme, eCommerce Expo offered exhibitors two unmissable days of networking and lead generation.

eCommerce Expo 2018 is primed to be another ground breaking edition, thanks to a new partnership with CloserStill Media, which will offer the most exhautively promoted, far-reaching event campaign yet.

The organisers are also pleased to announce that eCommerce Expo will once again be taking place alongside Technology for Marketing but they have added another show alongside at Attcho, the leading event for advertising technology, anywhere in the UK, we will now take place alongside both events creating a destination event that mirrors the convergence of ecommerce, advertising technology, and marketing technology.

www.ecommerceexpo.co.uk

The HVAC & Refrigeration Show Review Top 10

www.productdatalake.com

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What is Product Data Lake?

Product Data Lake is a Cloud service for sharing product data in the business ecosystems of manufacturers, distributors, merchants, marketplaces, and large end users of product information.

How does it work?

A data lake is a concept with growing popularity related to big data. A data lake focuses less on predefined standards but makes variant use of data by the time needed possible. The Product Data Lake is born within a modern data management approach.

Sell more. Reduce costs.

Sign up for a free trial of the intersection of Big Data and Product Information Management at:

www.productdatalake.com

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With our impressive stand pitched right at the front at the entrance to the show at ExCeL London, we enjoyed three days of busy network engagement which really helped to put our refrigeration spares on the map.

Visitors learned about the range and depth of our stock of Spares and OEM parts, our updated app, the benefits of our unique delivery solutions, the transformation of our customer service centre and our engineer training.

National Sales Manager, Neil Vincent, and Refrigeration Development Manager, Steve James, led the team doing duty for us at the show.

“We were busy on the stand throughout the show and claimed some quality trade leads which the team have been busy following up on.”

We are currently running a fridge promo offering essential tools of the trade like Schrader Valves and Drain Line cable at discount prices, while our summer plans will be focusing on van stock and refrigeration working with OEM brands like Fosters, Williams and ISA.

We will also be running a campaign to offset the impact of the European factory summer shutdowns.

For more information on First Choice Group services, call 01543 577776, visit: www.firstchoice-cs.co.uk or email: enquiries@firstchoice-cs.co.uk

eCommerce Expo Review Top 10

Amesto Translations UK Ltd

Our customers benefit from our 35 years’ experience helping all types of companies within both the private and public sectors to improve their translation flow.

We have local offices in Norway, Sweden, Denmark, and the UK. Over 2,000 companies work together with us on a daily basis.

Amesto Translations provides you with the highest standard language solutions at a competitive price. We help our customers with professional translation services within any discipline and with more than 8,000 translators at hand we cover more than 170 languages.

Our ambition as a translation agency is to simplify our customers’ everyday lives by offering technology that streamlines the translation process. We have access to the appropriate linguists plus the internal expertise to help you in all areas via flexibility, availability, speed and quality.

With Amesto, you can rest safe in the knowledge that your translation has been quality-assured and will be of a high professional standard. Our customer satisfaction rate of 99.97% shows that we deliver the best and most affordable translation services. Regardless of language combination or subject matter, you will profit from our reliable and well-defined quality control. We are certified ISO 9001:2015, 14001:2015, and 17100:2015.

Contact: Richard Loyer
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email: enquiries@amestotranslations.com

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www.productdatalake.com

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Lighting the way to a safer environment

Industry Update is pleased to announce we have specially selected expert Emergency Lighting Company BLE Lighting & Power Ltd to receive this issue’s coveted Advanced Lighting Technology & Emergency Power Systems Company of the Month profile, in light of their consistent, excellent and innovative services towards the Emergency Lighting and Power Systems sector.

Celebrating their incredible and impressive 50th Anniversary this year, BLE Lighting & Power now have 5 decades of knowledge and experience making them the first choice for emergency lighting and power solutions. Based in Eckington, just South of Sheffield, they’re perfectly situated in the heart of England enabling them to cover the whole of the UK.

Offering emergency lighting & power systems to every feasible problem, BLE Lighting proudly do more than just sell their innovative and impressive products. “At BLE Lighting we know that every building is unique. There isn’t a one fit solution for emergency lighting and power, so we pride ourselves on offering one-to-one consultancies and develop relationships with our clients,” said Lee Halliday, Sales & Marketing Manager at BLE Lighting.

This unique way of operating creates trust between BLE and their clients, ensuring success into the future for both parties, and this is what separates and elevates them above their competition.

BLE Lighting’s aim is not only being a supplier of emergency lighting, but also becoming a long-term dedicated partner. “From initial consultation to installation we consult and listen to our clients, then offer the best solution for their needs, ensuring that all-important Government Legislation pertaining to Emergency Lighting and Power is adhered to.”

And it’s this drive for compliance by companies all over the UK that has ensured, and will continue to drive BLE Lighting’s success.

“At BLE Lighting we’re very fortunate to be in a position through our successes that we can continue to grow and stretch our reach to the whole of the UK. We’re in a unique position, with our expertly trained teams, to be able to offer unparalleled levels of advice and service to everyone.”

BLE also supply emergency lighting & power systems all the way through to LED efficient lighting to some of the country’s biggest airports and leading retail and cinema chains, truly showing their success is backed up with contracts for prestigious companies, ensuring their soaring reputation.

BLE Lighting’s latest innovation, The Autoglow III test system, is a fully addressable, centralised automatic test system suitable for both self-contained luminaires and central system luminaires. The system provides email notification for up to 3 recipients when there are changes in status for the monitored luminaires, therefore giving peace of mind that the emergency lighting scheme is functioning correctly.

Lee proudly announces BLE Lighting’s attendance at this year’s ELEX Exhibitions across the country in June at Harrogate, September in Coventry and then in November at Sandown Park in Surrey. BLE Lighting would love anyone interested, to come on over to discuss how they can help your project.

BLE Lighting & Power Ltd are ready to offer their consultancy and products to your project, so don’t hesitate to get in touch.

T 01246 432325
sales@blelighting.co.uk
www.blelighting.co.uk

YOUR SPECIALIST IN LIGHTING SOLUTIONS 01246 432325 WWW.BLELIGHTING.CO.UK
Range of medical rated power adaptors offer global reach

Luso advises that a range of medical grade power adaptors is now available with various flexible options from Adaptor Technology. They offer wall mount units in 12V and 24V families with 2 x MOPP rating as well as being certified to EN60601-1. The units have universal input of 100 to 240V so can be used globally, and are offered with a variety of plugs, the choice covers UK, ELL US, Australian and also a 'changeable' unit with all versions supplied. Adding to the flexibility, there is a wide range of connectors, or one of your choice can be added as an option. This range of products is supplemented by a wide range of inline desktop adaptors which also offer many of these options and are available in various power offerings up to 360W.

1800W intelligent modular power supply offers best in class performance

The CoolX1800 Series is the new intelligent modular 1 power supply from Excelsys. It provides an incredible 1800W in a compact 5 x 10.5 x 1U package, typically 50% more power than the industry standard, it also includes PMBus® digital communications and control.

The CoolX1800 offers system designers both in class performance in efficiency & unrivalled reliability in addition to the most comprehensive feature set and specifications.

The series comprises two basic models. The CX18S is certified to IEC60950-2nd edition for industrial applications as well as the upcoming IEC6268-1 standard. The CX18M carries IEC60601-1-3rd edition & IEC60601-1-2-4th edition (EMC) for medical applications.

The CoolX1800 can be populated with up to 6 CoolMods, providing up to 12 isolated DC outputs ranging from 2.5V to 58V.

Continuing the Excelsys tradition of flexibility, the CoolX1800 is completely user and field configurable. Outputs can be adjusted to the required set point voltages and be configured in parallel or series for higher current and/or higher voltages. CoolX1800s can be paralleled for higher power and/or 1/3 Redundancy applications.

There are a range of CoolMods available including medium and high power single outputs and dual modules. Stand-out features for medical applications include suitability for type BF rated (Body Floating) applications, input dual fusing, 2 x MOPP isolation and <300uA leakage current.

The CoolX brings user flexibility to a completely new level, allowing system designers to monitor and control power supply performance using either analogue and Digital Communications (PMBus®). An industry leading 5 year warranty ensures quality, reliability and the lowest total cost of ownership as well as safety certified operation at altitudes of up to 5,000m.

Telonic Instruments announces UK release of the new Kikusui PWR-01

The PWR-01 series are versatile instruments with models offering 400W, 800W, and 1,200W rated power output with maximum rated voltages up to 650V. Equipped with a 4-times voltage and current variable ratio, making this one of the most versatile range of DC power supplies on the market today, the PWR-01 provides flexible current and voltage for a variety of applications.

Variable internal impedance is a unique new feature that allows regularly updating the luminaires with the latest technology; this makes the system fully 'future-proofed'.

Ticketing and barrier applications targeted by Delta with their low profile power supplies

Delta announces that they have added 4 low profile panel mount power supply models to their PMH series. The new products are available in 100W and 150W output power versions.

They add to the existing range of products in this series that power ranges of up to 150 watts and have outputs of 12 and 24V. They accept universal input voltage from 85-264Vac and have a wide operating temperature range from -30°C to 70°C.

The products meet the EMC approach to EN 55014-1/EN 55014-2 for household appliances and EN 61000-6-3 for industrial and residential environment without requiring an extra EMI filter. This makes them particularly suitable for such applications as ticketing machines, entrance barriers and vending machines or other installations requiring 1U low profile power supplies.

Other highlights and features are the fully corrosion resistant aluminium casing and they also offer versatile connector options: IP00, Front Face and harness connections.

Please contact Luso for pricing and to arrange a sample for evaluation.

Switches deliver a history of reliability

ECO switches and keypads are used in many industrial sectors including medical, communications, security and transport. Some of its thumbwheel switches are made to military specifications and, in fact, the company still gets orders for replacement switches to match those made in the 1970s and 1980s.

Alongside its switch line-up, which includes thumbwheels, strip switches and micro-dips, ECO also supplies custom made elastomer keypads, switched membrane keypads and elastomeric connectors.

The company supplies switches made in the USA by ECO Switch of California, which has been making electro-mechanical switches since 1947. The keypads are made in Taiwan by a group associated factory, for which it is a UK agent.

Lighting control for the Royal Academy of Arts

The Royal Academy of Arts was founded in 1768 by King George III to promote the art of drawing through education and exhibitions. Based in Burlington House, in the heart of the English capital, the illustrious Academy continues to be one of the world’s leading centres for visual arts. In 2016, in order to improve the performance & efficiency of the existing lighting system, the Academy commissioned engineering firm ARUP to design a redevelopment project that would save energy and ensure installation flexibility, while also minimising maintenance.

The new lighting system was unveiled on 23rd September 2017 for the Jasper Johns exhibition, ‘Something Resembling Truth’. This was the first anthology dedicated to the US artist in the last 40 years, featuring over 150 works including paintings, sculptures, drawings, and prints from throughout the artist’s life.

The project involved the installation of 1,500 iGuzzini Palco LED projectors (412mm and 414mm) featuring the patented Opti Beam lens technology, which produces a uniform, well-defined light beam, devoid of chromatic aberrations. The wide range of accessories available in the Palco product family offers great versatility through a variety of flexible solutions and accents; this ensures that specific lighting effects can be created for each artwork or art display.

The fact that the individual Palco components can be replaced (e.g. adapter, drivers, accessories, Bluetooth module and LED chips), also facilitates maintenance and allows regularly updating the luminaires with the latest technology; this makes the system fully ‘future-proofed’.

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Hughes Safety: Celebrating 50 years of safety shower manufacturing

Here at Industry Update we are exceedingly proud to present Hughes Safety as this issue’s Safety Solutions Company of the Month. Hughes Safety aim to exceed customer expectations in everything they do by providing innovative, specialised industrial safety shower solutions to suit all applications.

Hughes Safety was founded by John D. Hughes back in 1950, after an employee stepped into a sulphurous mixture and only had a cast iron bath full of contaminated water to splash in. Clearly, safety standards had to improve, and to prevent any similar incidents from occurring John developed a range of emergency safety showers and eyewashers. There was a surge in demand for these specialist showers and in 1968, John began to specifically manufacture emergency showers and eyewash equipment under the Hughes Safety Showers name. As such, 2018 marks the 50th Anniversary of the company.

The company has grown in leaps and bounds since, and today Hughes Safety is an international pioneer in the field of emergency safety showers, eyewash, wash solutions and decontamination equipment. Hughes Safety champions both design and engineering excellence, providing customised industrial safety shower solutions to suit a range of applications across multiple industry sectors. Their product range includes plumbed-in and self-contained emergency eyewash equipment, indoor drench and combination safety showers, outdoor self-draining safety showers, emergency tank showers, temperature controlled safety showers, PPE decontamination showers & mobile emergency showers.

Hughes Safety has a strong track record in engineering, design, manufacture and business, capable of offering a wide range of services that encompass project planning, customised engineering and design, site survey and risk assessment, third party certification, servicing and inspection and testing to all relevant standards. As part of the Justrite Safety Group, Hughes also has access to an extensive line of industrial safety products that include safety cabinets, safety cans, secondary spill containment and outdoor chemical storage buildings. Most recently, Hughes Safety increased their fleet of emergency safety showers available to hire, providing a short-term safety shower solution during annual maintenance shutdown or as a secondary safety measure. Two of the mobile emergency safety showers and the 350L emergency tank shower can be hired for a week, a month or even a year.

We asked Marketing Manager, Wendy Baker, what else we can expect from the company, to which she explained, "This year sees the launch of our new Zero Power Cooling System for Emergency Tank Showers, specially designed for use in remote locations in hot climates. The night time ambient temperature is used to maintain the daytime temperature of the water, ensuring the delivery of safe and rapid water without the need for power and with zero running costs. We look forward to presenting this new solution at ADIPEC 2018 in Abu Dhabi in November.”

3D Printing: Company of the Month

Leaders in 3D printing batch production

Here at Industry Update, we are extremely pleased to present 3DPRINTUK as this issue’s 3D Printing Company of the Month. For this editorial, we spoke with Founder and Director, Nick Allen, about the company and all that they can offer.

The company was first formed in 2011, based in London. Nick has a strong background in engineering and product design and decided to set up the company just as 3D Printing was on the rise in the UK. 3D Printing has seen a huge boom in recent years all around the world, as many more sectors are seeing its advantages within manufacturing and production. Nick explains, “3D printing is the best tool for product development and low volume production, and it has massive potential to change a lot of things.”

3DPRINTUK works with companies of all sizes across the UK, Europe and US, including SMEs and multinational corporations such as Facebook, Miken, Network Rail and M&S. Their wide range of services include being able to provide batch production runs where injection moulding is too expensive, 3D printed prototypes, free vibro-polishing and dyeing. As one of the leaders at the forefront of the UK’s additive manufacturing sector, 3DPRINTUK are proud to say that they were the first company to own a DM60 by Dye Mansion, capable of dyeing the finish of a product to ‘Carbon Black’, and with no scoring to boot. It also comes with a wide range of benefits, such as being much cheaper than paint, and gives a long lasting, durable finish.

Where 3DPRINTUK really shines though is in Low Volume and Batch Production runs. Thanks to their highly advanced Selective Laser Sintering (SLS) machines, they are able to produce low volumes of plastic parts, whether it’s just a few or a few thousand, and enable clients to print on demand. There are a number of advantages to using 3D printing for small parts, including it being far cheaper than injection moulding and providing strong, accurate and cost-effective components. Better yet, clients can customise their parts with company names, logos, branding and much more. Nick adds, “We have successfully bridged the gap between injection moulding and prototyping, able to offer clients a high-quality service that offers a quick turnaround, identical and accurate models, and even free polishing for a smoother finish.”

Batch production runs can be used in every sector, whether it’s producing tech wear, engineering components, mini models and much more. Anything from clips, mounts and fastenings to customised items and other small parts can be made using batch production runs. 3DPRINTUK also offer one of the most budget friendly batch production options, able to service both large and small companies. Not only that, but they also offer sample packs available for clients to test out before committing.

If you would like to meet the great team behind 3DPRINTUK, you can catch them at this year’s upcoming TCT Show where they will be showcasing their batch production facilities and more. To get in contact, please see below for details, or feel free to check out the website for more information.

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Reinforced concrete reinvented

Low and Bonar is a London-headquartered company that is globally renowned for its competency in providing high performance materials for the building & industrial, civil engineering, coated technical textiles, interiors and transportation sectors. Manufacturing plants and sales offices are based in Europe, North America, the Middle East, India and China.

Its activities revolve around the development and supply of fibres, industrial/coated fabrics, composite materials and yarns using state-of-the-art technologies. With its suite of products, all engineered for each specific end-use, Low and Bonar assists businesses across the world to make construction sites safer, reduce carbon footprint, cut total cost of ownership and promote cleaner air and water.

The roots of the premium product brand Adfil date back to the early 90s targeting those working within the construction market with synthetic fibre reinforcements. The comprehensive Adfil product portfolio includes standard and custom-made fibres that are readily available in measured quantities.

“We develop, manufacture and sell construction fibres to improve the durability of concrete,” summarised Manager of Technical Sales, Mark Mitchell, who is based at the company’s UK office in Hull. “Specifically focusing on additives for concrete, our customers tend to be ready mixed concrete producers, engineers and contractors.”

Delivered in paper degradable bags, plastic bags, jumbo sacks or bulk boxes, the micro and macro synthetic fibre types are all developed in accordance with EN 14889 – Z.2.2006 (the EC Certificate of Conformity). The flexibility of this industry quality compliant range has attracted customers seeking solutions for various applications; the materials are frequently utilised for concrete floors, pattern imprinted concrete, precast concrete products and tunnelling (for example).

This popularity is largely because the advantages of using macro and micro fibres over traditional steel mesh reinforcement have become increasingly apparent over the years. The fibre alternatives help to improve impact, abrasion & shatter resistance whilst ensuring plastic shrinkage & settlement crack reductions. They also provide post-crack ductility, moderate waste and offer significant economic, social and environmental benefits.

The synthetic blends are also easier to handle than their conventional equivalents and offer asset longevity as well as, crucially, improved safety at the construction site. Building projects can be completed in a speedier manner and all works conducted help to reduce the site’s carbon footprint.

Low and Bonar is committed to innovating and invests heavily in R&D in order to improve upon its offering. Internal and external tests at independent laboratory facilities ensure consistency and the company philosophy is centred on performance and the creation of customer value.

“We are a progressive company that has been in the trade for over 100 years,” Mark concluded.

The roots of the premium product brand Adfil date back to the early 90s targeting those working within the construction market with synthetic fibre reinforcements. The comprehensive Adfil product portfolio includes standard and custom-made fibres that are readily available in measured quantities.

“We are a progressive company that has been in the trade for over 100 years,” Mark concluded.

“We manufacture products for construction fibres mainly in Belgium and have a sales team operating in the UK, Belgium & India as well as a distribution network delivering solutions to customers in over 90 countries worldwide.”

To find out more about these materials please refer to the contact details provided. By reaching out to the Adfil team to source a tailor-made solution you can become a valued Low and Bonar partner whilst discussing concrete mix designs, engineered proposals and unique packaging configurations.
For any innovation-driven industry, it's crucial to be aware of the IP landscape in your technology area. For example, consider the fact that 70-80% of scientific and technological information is available only in patents – by not monitoring this effectively, how much actionable intelligence is your company missing out on?

The systematic retrieval and assessment of patent data can provide insights into competitor activity, potential collaborators, technology trends and opportunities. As awareness and appreciation of the value of patent data as a source of commercial insights grows, it is becoming more apparent that this information needs to be shared throughout the corporation in a manner that is easily understandable, contains the correct amount of information and can either lead to inspirational discussions or ground-breaking ideas.

Encouraging innovation company-wide

In large corporations, an in-house patent or IP department will study the landscape to look for licensing opportunities, to challenge the validity of third party rights or for IP portfolio management and more... IP/IT departments work alongside R&D to make sure that resources aren’t wasted reinventing the wheel, to avoid infringement and identify white spaces in areas of interest.

In the past, IP lawyers and specialist search firms would’ve presented R&D departments with a huge stack of patent documents to be reviewed, but there are now time-saving and cost-effective alternatives to this process. Although R&D professionals might not have experience in the more complicated patent searching tools and training in patent analysis/landscaping etc. R&D departments still benefit from an in-depth analysis of technological developments in their field of expertise and the identification of opportunities for new product development in low-risk areas to avoid wasted R&D costs.

Seeing the gap in the market for an end-user friendly patent search tool, Minesoft – in partnership with RWS – developed a streamlined and intuitive version of PatBase: PatBase Express.

With over 50,000 users, many of our customers have hundreds or even thousands of IP-verified accounts, an ideal way to optimise productivity; express searching with no training required. All users, with any level of skill, are able to search and review large and highly complex patent datasets and to interact with and share this data company-wide.

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New 3D landscapes in PatBase Analytics V2 make it easier to quickly spot white space in areas of interest

To further our goal of making complex patent data accessible and understandable by all people within a corporation, Minesoft recently launched PatBase Analytics V2.

Fully compatible with PatBase Express – end-users can take very large and highly complex datasets and easily present them in a visual way that is ideal for sharing to strategic decision makers in a boardroom environment.

Minesoft solutions can transform the way you work – find out how at: www.minesoft.com
James Jones unveils innovation set to dramatically improve lifespan of wooden pallets

James Jones & Sons Ltd has revealed a new venture it says will dramatically improve the quality, length of life, and environmental benefits of wooden pallets, and significantly reduce their whole life cost.

UPALL® manufactures and fits robust protectors at the points of entry on wooden pallets. This means the pallets last longer, need far fewer repairs and stay in circulation for longer than conventional non-protected pallets.

The protectors are based on the US pointGUARD invention, which UPALL® has redesigned and developed for the European market.

Tests on the protectors at Virginia Tech show that they increase the lifespan of a wooden pallet by three times and potentially longer. This is because UPALL® – protected pallets experience substantially less damage with significantly fewer wood chippings and debris.

A UPALL® protected pallet remains in circulation earning money for longer with quantifiable savings in inspection, repair, transport and tip costs.

Gil Covey, Chairman of UPALL® Ltd, said: “The UPALL®-protected pallet is a truly innovative and ground-breaking development in wooden pallets, which are critical to so many supply chains.”

This reduces downtime, equipment maintenance and housekeeping, and improves safety.

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Avery rolls out revenue protection solution

Avery Weigh-Tronix has launched a new Revenue Protection solution which quickly and accurately protects the weight and dimensions of parcels and heavy/large freight. This solution helps to protect against the revenue loss caused by under declaration of consignment weights, while removing the extra processing time and floor space often associated with additional revenue protection checks.

Stewart Campbell, logistics manager at Avery Weigh-Tronix, says, “Research suggests a massive 54% of consignments go unchecked. Our solution allows the arm of a major international logistics company showed efficiency savings. A system installation with the UK takes place while the item is still sitting on the forklift truck, this customer and dimensional data is processed along with weight data to calculate the volumetric weight of the consignment. This process

Patented by AmbaFlex

Following their decision to join the World Trade Organisation in 2001, China became serious about protecting intellectual property. In June 2009, they announced the Outline of National IP Strategy, which set up a roadmap for China to become a country of high-level IP creation, utilisation, and protection by 2020. As they rolled out the new legislation in accordance with the international laws on patents, the perception that China is a free haven for illegal copies is fading away.

AmbaFlex, as the inventor of the SpiralVeyor®, is known for working on the frontline of innovation & holds many globally awarded patents, including numerous special spiral applications & many unique enhancements.

From the moment AmbaFlex became active on the Chinese market with the introduction of its SpiralVeyor® many poorly made spiral copies came and went. Building a functional spiral conveyor, able to operate for many years, is an art on its own that requires not only a high degree of craftsmanship but also years of experience & research. At local imitators lack that experience, most of them disappear as fast as they come, leaving behind unhappy customers due to badly functioning machines.

Others, more persistent in building a working copy which infringes on one or more patents, have been stopped by AmbaFlex through the Chinese judicial system. The Supreme People’s Court of Beijing & other local patent courts decided in favor of AmbaFlex in every one of these cases. The companies behind the copies have been forced to stop production and pay steep penalties.

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Mobile picking solution

Avery Weigh-Tronix has launched a new mobile picking solution which features barcode scanning, weight verification & varying levels of WMS integration which helps to avoid errors that require reshipping or shipping checks, allowing quality control to be achieved as a single touch.

Stewart Campbell, Logistics manager at Avery Weigh-Tronix, comments, “We understand that implementing a verification process that slows down picking operations is absolutely not an option. The new mobile work station puts quality control right at the front of the picking process, by combining everything that a user would need to quickly and accurately verify their pick, without needing to defer to a separate QA process. This simple yet effective solution aims to operators to realise huge efficiency savings, avoid costly reworks, and reduce any contractual penalties associated with service quality and accuracy.”

Integrates with existing tools

The combination of a robust yet configurable mobile picking terminal, touch screen terminal, picking software, on-board battery power, WMS integration and a highly accurate scale for weight verification, provides the user with a quick and simple way to validate that an order has been picked correctly.

Completely configurable, the workstation has the power to integrate with existing pick management tools such as Pick to Vocal/Pick to light, features various levels of integration with WMS stock data and is available as a manual or powered picking cart in a variety of sizes, to fit the requirements of the operation.

As well as verifying picking accuracy, the new solution enables real-time inventory control, eliminating the costly efforts associated with inventory counts, audits, or wall-to-wall stock checks.

Stewart concludes, “Initial feedback from clients using these systems has shown significant benefits and a speedy return on investment. In addition, building weighing into any picking and packing operation can help to safeguard profits by reducing both under and over shipments.”

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www.avery weigh-tronix.com

Mini air hoists increase speeds by 20%

J0 Novus has worked with end users to develop its new Mini series of air hoists

Emphasis was placed on reducing the end-user’s total cost of ownership (TCO) of the hoist. Reliable processes in the working sequence contribute to increased efficiency, achieved for 100% of the active operation time, by extending the service life significantly.

The Mini 500 achieves a 20% increase over speeds achieved by the previous model. Additionally, the maximum speed can also be adjusted without losing power at a given load capacity, meaning loads are even better protected when necessary.

Work can be performed directly on the lifting device without removing it from the beam, reducing downtime during operation.

With the NFC chip, the operator can access device-specific information and documentation on their smartphone. This saves time and means documents are available digitally.

The number of operating hours until the legally required general overhaul of the Mini has been doubled, allowing operation for 800 hours.

The Mini offers safety features including, optional fall supports for both the lifting and lowering phases, capable of holding the maximum capacity of a hoist should it come free of the supporting structure and a new limit stop offers another safety feature, switching off the hoist and lowering movement as soon as the bumper touches the stop value.

T 01224 722751

Storage system quickly installed

SSI Schaefer has equipped logistics provider’s 300th branch with an integrated storage system.

SSI Schaefer designed and installed the storage system, which holds the trade supplier’s entire branch stock, including out of gauge and long-length items.

The system is based upon SSI Schaefer’s Regal channelling range, which is highly versatile, modular and easily adapted to accommodate fastidious’ large and variable product range. After the final layout for the store, the Relax traders placed their order with SSI Schaefer on 22nd January with the complete delivery being made in just over a week. Thanks to rapid assembly between 1st and 6th February, the first stock was on the shelves in the Eastleigh branch on 6th February, ahead of the store opening for trading, six days later on the 12th.

James Skilling, SSI Schaefer’s national account manager, said, “Having already supplied fastidious’ for 295 of its branches across the UK, we are delighted to have again provided the storage system for the landmark site.”

T 01264 386600

Technology for Marketing Review Top 5

Get your web visitors contact info in real-time – with Lead Forensics

Lead Forensics is the SaaS company which allows B2B companies to generate large volumes of quality sales-ready leads by showing them who’s visiting their website in real-time.

Using reverse IP tracking and the largest global IP address database, Lead Forensics will monitor your website and show you the businesses visiting the site, even with details about their time spent on your website.

Knowing the pages viewed & how your company was found online allows you to construct a fully tailored approach to your follow-up.

With the key decision maker’s name, email address, and contact number also made available, you can convert your new legitimately interested leads into sales!

Alan Mahon from The Scottish Business Awards saw a 2613% ROI in month one – “first sale achieved after ten minutes of using Lead Forensics” – and he is just one of 50,000 global users to see the positive impact Lead Forensics has brought to their lead generation.

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Without spending a penny, see how Lead Forensics can revolutionise how you search for new business and generate revenue.

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What story is your DATA telling? Find out at: www.SplashBI.com

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Innova Care Concepts

Innova Care Concepts is home to the most innovative healthcare equipment in the world. Innova are the ‘go-to-people’ for all your healthcare equipment needs. We specialise in combining functionality and aesthetics to create unique, subtle solutions for any end users. Our product range is reliable and long-lasting to ensure that every patient and carer’s needs are met with ease. We specialise in combining functionality and aesthetics to create unique, subtle solutions for any end users. Our product range is reliable and long-lasting to ensure that every patient and carer’s needs are met with ease. We specialise in combining functionality and aesthetics to create unique, subtle solutions for any end users. Our product range is reliable and long-lasting to ensure that every patient and carer’s needs are met with ease.

Polar now consider healthcare and mental healthcare windows, doors & curtain walling.

IDEXX launches new rapid water test to aid in fight against Legionnaires’ Disease

IDEXX, the global leader in rapid microbiology testing for water, has introduced Legiolert, a new culture toxicity testing method that enables building owners and facility managers to simplify water testing and reduce the risk posed by Legionnaires’ disease. Legiolert is a highly sensitive method for the confirmed detection of Legionella pneumophila (L. pneumophila) in water and delivers results up to seven days faster than traditional testing methods. Legionella pneumophila is the most common Legionella species in water and the primary cause of Legionnaires’ disease, which is deadly for about 1 in 10 people who contract it and often causes long-term effects. The legionella bacteria reproduce using a substance called the ‘brown colour indicator.’

The test is based on a bacterial enzyme detection technology that signals the presence of L. pneumophila through utilization of a substrate present in the legionelert reagent. Active growing strains of legionella pneumophila use the added substrate to produce a brown colour indicator.

www.idexx.com
www.waterproducts-services/legiolert/
t 01638 676800
water@idexx.com

Legiolert provides a confirmed result in 7 days, versus up to 14 days with traditional culture methods.

The Legionelert test is based on a bacterial enzyme detection technology that signals the presence of L. pneumophila through utilization of a substrate present in the legionelert reagent. Active growing strains of legionella pneumophila use the added substrate to produce a brown colour indicator.

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Why choose Polar?

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Polar NE: Making a difference

Polar has become a respected industry leader in the design, fabrication, installation and maintenance of healthcare windows, doors & curtain walling.

Polar is the preferred medical gas designer, installer and maintenance provider for healthcare and mental healthcare facilities. Polar has become a respected industry leader in the design, fabrication, installation and maintenance of healthcare windows, doors & curtain walling.

Polar offers a complete range of fenestration design, fabrication, installation and maintenance services, including full window and sliding roof systems, that can be tailored to meet your specific needs. We are committed to providing the highest quality service and ensuring that every project is completed on time and within budget.

Product Innovation Award winner

Eurotec Environmental was delighted to receive the IHEEM Healthcare Estates Product Innovation Award for 2017 in recognition of the successful roll out of the UK’s first Sterilwave Clinical Waste Plant at Barts Health’s Whipps Cross Hospital. The Sterilwave solution is supplied to Trusts on a price per tonne agreement that is fixed for the term of the contract (typically 10 years). Other significant benefits: • 80% reduction in transport to site for the waste streams treated by Eurotec Environmental • Complete removal of the need for Consignment Notes and associated costs and administration activities • Total removal of all off-site compliance issues • Significantly improved Carbon footprint by up to 30% due to the much reduced vehicle movements

In addition to the above benefits, Eurotec Environmental also provides services that are tailored to the specific needs of each healthcare provider. This includes providing the highest quality service and ensuring that every project is completed on time and within budget. We are committed to providing a complete range of fenestration design, fabrication, installation and maintenance services, including full window and sliding roof systems, that can be tailored to meet your specific needs.

Contact T 01642 404884enquiries@polarine.co.ukwww.polarine.com
UNISIG Deep Hole Drilling Systems

Originally established in 1995, UNISIG was set up by the contract manufacturing service, Entrust Manufacturing, to develop its own advanced product line of quality machinery. It has since experienced significant growth, having created various solutions to facilitate every conceivable industry with a need for deep hole drilling.

The robust and fully functional products have been utilised in many sectors, such as the aerospace, energy production, steel processing, hydraulics, automotive and contract manufacturing factions (to mention a few examples).

From oilfield equipment to bone screws, every application is unique and brings different challenges and requirements – the UNISIG team acknowledge this and so actively strive to ensure everything is taken into consideration – whether it is the inclusion of super-alloys, surface-finish specifications or the need for high production without sacrificing accuracy.

Machines + Tools + Automation
UNISIG deep hole drilling systems consist 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 standards, and are exported worldwide.

Recognised Precision
UNISIG deep hole drilling machines are proven with industry leading manufacturers in all regions of the world. UNISIG is chosen for the ability to consistently meet vital demands of tolerance. UNISIG stands out among industry players for its skill in handling large, complex projects including multiple machines and automation, process development and tooling testing, as well as custom engineering.

For more information, please call +49 7125 9687590
Email info@unisig.de | Web www.unisig.de/en

UNISIG Deep Hole Drilling Systems

UNISIG has also recently added the new versatile, high-precision UNI-50BTA to the UNI series of deep hole drilling machines. The machine extends production range by enabling operators to rapidly change from BTA to gundrill deep hole drilling tooling. This allows drilling holes with diameters as small as 8 mm (0.31") and as large as 65mm (2.56"), at depth-to-diameter hole ratios of 1001 or greater. The UNI-50BTA makes it possible to drill with either tooling method within the diameter range in the same part without secondary operations.

The specialist machinery, tool automation and accessory experts are highly experienced in providing the correct solutions to meet customers’ individual demands, whilst successfully achieving the highest performance standards possible. Its complex competencies extend to the completion of sophisticated projects, such as process development, tooling testing and custom engineering (as well as the worldwide exportation of long-lasting and tolerant systems meticulously made with premium components).

UNISIG machines are engineered and built to withstand the tough environments that are a reality in most production shops. Sensors monitor critical lubrication cycles, operating temperatures and filter condition and will protect the machine from serious damage. Control systems also monitor overload conditions and provide descriptive fault messages to direct maintenance personnel to the problem area immediately.

The company provides preventative maintenance guidelines and service recommendations that can be handled by all customers as well as maintenance services to perform activities on an as-needed basis or a repeating schedule.

UNISIG is headquartered in the US, where it houses its own research and development, engineering and manufacturing departments, but it opened another facility in Germany in 2011 in order to better serve the European market. The internationally appreciated machines and accessories are regularly exhibited worldwide at various trade shows across the world, the UNISIG team frequent events such as MTS (USA), EMO (Italy), AMB (Germany), and MACH (UK).

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Position Switches

The Schmersal Group has launched a new generation of position switches. The new PS product range offers varied applications, as all the position switches can be used both as complete devices and as modular units.

Type 1 position switches in line with ISO 14119 are for the position detection and monitoring of moving elements. The protection types IP66 or IP67 – both for automation and safety applications and individual disciplines of machine and plant engineering – are suitable for a wide range of applications across all industries.

Depending on the application, the basic switches can be combined with the necessary actuating element, which can be selected from a range of possible versions. This achieves the greatest possible flexibility in application and at the same time reduces the number of different switches available.

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www.schmersal.co.uk

Alta Precision is an industry-leading manufacturer of commercial aircraft landing gear in Montreal, QC, Canada. When they recently expanded their production facility to introduce a new landing gear product, it was an opportunity for the greatest machine uptime and performance.

While the previously used machine was not well suited to the problem area immediately. To ensure products are always performing as expected, the company UNISIG has established an extensive maintenance programme, not only to stop damage to machinery, but to provide an opportunity for the greatest machine uptime and performance.

Industry Update is sponsored by UNISIG – see them on page 13
Pack your things for Packaging Innovations

Packaging Innovations: Review Top 10

From 28th February to 1st March 2018, the packaging industry gathered together everyone from suppliers to traders, distributors, industrial experts, manufacturers, and much, much more.

The exhibition saw over 350 unique exhibition stands and displays to showcase the very best and latest products available. There was plenty on offer for those watching, with over 3,000 attendances, and with cutting-edge packaging technologies, the latest industrial exhibits and developments and inspiring designs, materials and even skilled troupes in addition to new business ventures, there were a number of exciting show features including the Drinks and Pharmaceutical Symposium, The Packaging Consultancy Circles, The Great Innovation Debate, and a whole host of informative and engaging seminars.

Packaging Innovations 2019 will take place at the NEC Birmingham from 27th-28th February 2019. This is our pick of the best exhibition highlights this year's show, listed here in alphabetical order:

Flexo Label Machinery, Interactive Coding Equipment, Spectra Packaging, TAWI, Videopak Technologies & Wypak Ltd. Please details can be found on packaging-innovations.co.uk or follow us at: www.twitter.com/ICE_Coding

Energy efficiency, and the company’s recent sign up to Operation Clean Sweep, Spectra’s PCR10 will come into full effect by the end of this year.

T 01432 834190
sales@spectra-packaging.co.uk
www.spectra-packaging.co.uk

Focus Label Machinery

Focus Label Machinery started in 1981, designing and building a small printing press for printing Apparel labels. Within a few short years Focus had developed its first Flexo machine, enabling the company to grow and become established as a leading manufacturer of narrow web presses in the UK and around the World.

Focus remains a family business today exporting around 70% of its UK manufactured products across the globe. Over the years, the company has grown, the product line has changed through commitment to research and development, driving Focus to be at the leading edge of innovative technology in Flexographic, Textile, and Digital Hybrid pressess.

Traditional Flexo printing has been enhanced by servo motors used on the latest Flexo presses, decreasing setup time and waste to a huge extent, giving consistency and quality over both large and short print runs.

Digital inkjet has enabled Focus to manufacture a highly efficient Hybrid machine, assisting our customers with the opportunity for blank reel to fully finished product in one pass, with both Flexo and Digital combined.

Focus has an excellent manufacturing facility combined with a dedicated training centre and fully functioning showroom, where we encourage our customers from around the world to come to us, see the design and production processes and to learn about the products they will be using.

T 01432 263613
sales@focuslabel.com
www.focuslabel.com

Wypak Ltd

Wypak Ltd is a 24,000m² UK-based contract packing and filling company. We work with major brands across the UK. Our approach is simple deliver on time, provide flexibility, quality and most importantly create an external production department that exceeds our clients’ expectations.

Sachet division
The company can handle 4 ideal sachet filling lines range from simple to complex pourable liquids, creams, and gels. Our ‘value added’ packaging options include mini to 5L tubes liquids, and 10g to 250g powders on volumetric fillers.

Liquid & powder filling
Our Advanced Filling Equipment produces high production rates reducing cost. Our dedicated in-line, zero defect approach, and supplier conformity ensures a comprehensive service that is second to none, filling capabilities from 5ml to 25L tubes liquids and 10g to 250g powders on volumetric fillers.

Pack your things for Packaging Innovations

T 01949 836223
sales@focuslabel.com
www.focuslabel.com

ICE recognised as one of the fastest growing businesses in the Midlands

Interactive Coding Equipment (ICE), has officially been recognised as one of the fastest growing businesses in the Midlands by the BGD Growth Barometer Report.

The insight report celebrates the best of business in the Midlands by analysing company growth and prosperity over a three year period in order to identify key players within the region and promote their success.

Findings in the report reflect several years of development at ICE and investments made in growing a skilled network of sales engineers and building a 11,000m² split-level workshop and office building, printing laboratory, and extended customer training facility.

“Once again we’re thrilled to have been recognised as a growing & successful business within the region,” said Chris Simpson, Managing Technical Director at ICE. “Myself and the other two directors would like to thank the passionate and talented teams within the company that work hard to drive growth without ever compromising on service.”

The milestone follows ICE’s win at the Nottingham Post Business Awards, where the company was awarded ‘Small Business of the Year’ as a result of efforts to improve quality and to stay ahead of industry trends and regulations.

With our customer application experts and technology leadership in Continuous Inkjet (CIJ), Thermal Transfer Overprinting (TTOP), Case coding and labelling, and wide array printing, Videopak has more than 345,000 printers installed worldwide.

Whatever your requirements, Videopak has coding and marking solutions to meet your many production needs. Offering a wide variety of coding technologies, supported by our advanced software and a dedicated global service team, we can help you print on virtually every package type and substrate.

Our customers rely on Videopak to print on over ten billion products daily. Customer sales, application, service and training support is provided by direct operations with over 1,000 team members in 26 countries worldwide. In addition, Videopak’s distribution network includes more than 400 distributors and OEMs, serving 135 countries.

T 0084 154 1532
www.videopak.co.uk

Peace of mind comes as standard

Videopak Technologies is a world leader in the product identification market, providing in-line printing, coding, and marking products, application specific fluids, and product lifecycle services.

Our goal is to partner with our customers in the consumer packaged goods, pharmaceutical, and industrial goods industries to improve their productivity, to protect and grow their brands, and to stay ahead of industry trends and regulations.

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Spectra unveils PCR10 at Packaging Innovations

This year’s Birmingham Packaging Innovations, Spectra Packaging announced the launch of PCR10. Provided at no extra cost to new or existing customers, this environmental initiative will see Spectra add a minimum of 10% PCR (Post-Consumer Recycled) material to all future bottle manufacturing.

Instigated as an environmental opt-out benefit that customers can decline if requested, PCR10 offers a sustainable packaging solution aimed at reducing the levels of virgin materials in Spectra’s products. Spectra’s PCR is sourced in the UK whenever possible to minimise carbon footprint and because the UK converter works closely with its suppliers, the recycled material can be tracked back for traceability.

Spectra also featured other environmental measurements at the show to widespread interest. These included sugarcane-based biopolymers, post-industrial recycled waste Initiatives, and internal measurements to minimise single-use items at their factory. The company also highlighted other sustainable policies such as using recycled cartons and reclaimed pallets.

T 01949 836223
sales@focuslabel.com
www.focuslabel.com

Contract packing
Our experienced team create a service which delivers a cost effective, fast turnaround, and excellent quality product for your customers, able to deliver over 2000 units per day, from 2 to 26 SKUs per pack.

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Focus Label Machinery Ltd

14 Industry Update is sponsored by NSF Controls – see them on pages 3 & 22
Latest laser technology

C ratnell’s Engineering has recently invested in a new BLM LT Fiber machine.

This brand new machine sits next to the existing LT, a laser tube cutting machine designed to cut from small to medium diameters and thicknesses of metal tubular sections. The LT Fiber allows the tubes of any shape to be cut, process of special sections and even open shapes without any additional special equipment required.

The laser cutting range boasts an automated unloading and support system for pre-cut lengths up to 6,100mm, automatic weld seam detection, and a module that maintains the cleanliness of the internal tube surface while machining.

Anti-crush technology makes the machine capable of processing even the lightest of tubes without deforming the walls. This high-tech equipment is also great for scrap reduction by setting the sequence of parts to be cut and minimizing end of bar scrap, meaning less overall waste, which is good for the company and for the environment too.

The additional BLM LT Fiber machine is already helping to increase factory efficiency by allowing unloading to various positions, with finished parts from one machine being unloaded whilst production continues uninterrupted on the other. The need to manually separate parts from different orders has also now been eliminated.

Tube laser cutting continues to grow in popularity as it offers a quick route to a precise finish, eliminating conventional, time-consuming stages such as marking out, sawing and finishing whilst delivering significant cost savings.

Loic Jones, Operations Director, says, “C ratnell’s Engineering decided to invest in state-of-the-art laser technology to enable us to offer fast production runs with the best quality finish, to our customer base. This substantial investment will allow us to continually support the ever-demanding needs of modern manufacturing clients.”

www.cratnellslasercutting.com

Accuracy, precision, speed

W at when it comes to laser cutting and metal forming, Accurate Laser, cutting are one of the UK’s leading providers, capable of supplying industry renowned cuts and holes on a variety of different metals.

The company was first set up in 2005 by Jon Till and Steve Morgan and specialises in both laser cutting services and press braking (metal bending). They can work with everything from brass to copper to mild steel and aluminium, offering unrivalled levels of accuracy.

For clients seeking fresh new components, they can send them sketches to the in-house CAD/CAM software team at Accurate Laser who will then use their expertise to reverse engineer the sketch and produce the perfectly, precisely designed component.

Not only that, but the highly regarded company have also built up a reputation among clients for their excellent lead times, fast turnaround and great customer service. In fact, their turnaround can be as little as 1-2 days and they even offer a free delivery and collection service to boot.

If you would like to find out more information about Accurate Laser Cutting or get in contact, then be sure to use the details below or head on over to their website.

0121 520 4444
www.accurate-laserc.co.uk

Laser systems for material processing

A CSYS Laserotechnik UK Ltd is a leading supplier of laser systems for material processing. Renowned for their standard and customised laser system machines, the ACYS product range offers optimised systems for all tasks in material processing using a laser.

Depending on the customer’s requirements, the highly efficient and skilled team at ACYS Laserotechnik UK Ltd will integrate various laser types such as the fiber laser or CO2 laser with very different power ratings and wavelengths in the system. Extensions with multi-axis functionality for linear and rotary movements and the integration of special modules, such as camera programming via the LFL – Live Adjust System, ODC – Online Depth Control or OPR – Optical Part Recognition, allow the system to configure a production system that is perfectly tailored to their client’s individual needs.

The solution portfolio by ACYS is proof that technical limits are not written in stone. Their expert team of development engineers use state-of-the-art 3D design tools. With a wealth of experience behind them, ACYS constructs unique technology and has a creativity pool for solving problems, which all other suppliers have so far shed away from.

From the planning stage to test runs, ACYS Laserotechnik UK Ltd works closely with customers to develop tailored solutions and software applications. On that basis, they have developed and built hundreds of customised solutions, all of which perfectly fulfil clients needs. If you would like to find out more about their specialist services, then contact them today.

T +44 (0)1527 870820
www.acsylaser.co.uk

Print, Packaging & Labelling

The NEW Rebo SMS R1 colour and cut desktop sign & labelling system

P rocess labels, maintenance labels, equipment labels and safety labels – all produced from one desktop system.

Creating technical and safety labelling has become faster, more effective, and easier to produce in-house with the remarkable new RMS R1 system from Rebo Systems in the Netherlands.

The R1 is a desk top system that can print in multiple colours and cut any shape in minutes and in any number of quantities. This allows users to create one-off labels or multiple labels, in multicolour and in any shape in one process. The R1 gives the process professional the ability to create pipe identification, cable identification, tagging, equipment labels, certification marking and generic safety labels – all from one device.

Producing mixed output means the R1 can deliver varied processes by adding fast and clear identification and strength adhesives, unique long life outdoor polyesters and difficult surface solutions.

The R1 adds a higher level of improvement to all processes by adding fast and clear identification and information.

Contact: Clinton Church, Sales & Marketing Manager
T 0032 499 709 431
clinton@rebo.nl
www.rebo.com

Printing on the go

It’s somewhat ironic that despite the ever-increasing connectivity and computing power of today’s phones, tablets, laptops, dedicated mobile data capture devices and portable terminals, the requirement for hard copy printed paper for receipts, quotations, job sheets, reports and certificates often causes the biggest problem for remote workers. However, there is now a huge choice of mobile printers; BVM Limited offers powerful mobile labels with paper sizes from two inch wide rolls up to A4 sheets, which, supported by software drivers and apps for virtually all computing devices and operating systems, enable high quality output to be produced irrespective of location or power availability.

Portable printers are typically powered by rechargeable lithium ion batteries, although in-vehicle printing from a fixed unit is also becoming an increasingly popular option for oil delivery drivers and others who need to leave professional looking printed documents with customers. Another increasingly important use for mobile hard copy information is in the Fire and Rescue Service, where plans of commercial buildings and large sites can be printed out while the vehicle is enroute to the location of the fire.

Contact
T +44 (0)1489 780144
info@rebo.nl
www.rebo.com

Industry Update is sponsored by UNISIG – see them on page 13
Opti-Innovations was set up in 2012, in Halifax, West Yorkshire. They specialise in producing the highly renowned Opti-Diesel, a fuel additive that is specifically designed to improve fuel consumption – generating significant cost savings and reducing greenhouse gases and all other emissions. It’s been found that introducing Opti-Diesel to the national fuel supply chain would be the equivalent of removing 50% of vehicles from the UK roads.

The specially made additive was originally developed by a research chemist in the United States but has been further developed and tested in the United Kingdom.

The patent was acquired by Ted Dickin, who has travelled around the globe in order to demonstrate the world changing benefits of Opti-Diesel, as well as its cost-saving ability. It took over 10 years of hard work and innovation to bring Opti-Diesel to life, but with climate change and the economy becoming a more pressing matter each and every day, it’s easy to see why the additive could change the face of the industry.

Ted is quoted as saying, “We are excited by the latest test results which vindicate our view that this product has the potential to be a game-changer for reducing harmful emissions into the earth’s atmosphere. At a time when there is more focus than ever on the gases produced by vehicles, with more fines for pollutants, an ever-decreasing amount of fossil fuels and ever-increasing amount of pollutants in the atmosphere, Opti-Diesel both saves money and we truly believe has the potential to help save the planet.”

Opti-Diesel is a world first catalyst in the fuel industry. Never seen before, the additive is made up of a number of fuel-borne catalysts that work to improve the combustion of both diesel and petrol, effectively reducing the amount of harmful emissions produced. The way this works is that the additive lowers the amount of energy needed to cause the fuel to combust. As less energy is required, less fuel is required to make the car perform the same amount of work as a traditional fuel without additives would allow. Therefore, reducing greenhouse gas carbon dioxide emissions. Just 0.26ml of Opti-Diesel is needed to make 1 litre of fuel more efficient.

The secondary function of the world first and patented Opti-Diesel is to reduce other harmful emissions. Understandably, the threat of global warming and greenhouse gas emissions increasing will have untold repercussions for all industries, peoples and parts of the world. As such, it is important that those in industries such as automotive, who contribute considerably to climate change, take the steps needed to reduce their effect as much as possible. Opti-Diesel uses a unique combination of reactions, including fuel use reductions and catalytic reduction, in order to significantly slash the amount of harmful and toxic emissions released from the vehicle.

The process behind making Opti-Diesel itself is highly innovative, blending together a number of precise metallic and organometallic catalysts which are housed in a solvent carrier.

When added to fuel, the oxidation catalysts present in the catalyst work to facilitate the formation of oxygen free radicals, with the free radicals being the star ingredient so to speak. After being formed, these free radicals react with the fuel to raise its combustion efficiency. The combustion reaction then produces hydrocarbon free radicals which go on to react with reduction catalysts, resulting in a significant reduction in the amount of harmful emissions produced. Repeatable tests have shown that this can cause up to a 99% reduction in Nitrous Oxides, with soot reduction also reaching similar levels.

Activation Energy is the amount of energy needed by a system to trigger a reaction. In vehicle engines, the activation energy is needed for combustion of petrol/diesel to occur. With Opti-Diesel, the amount of activation energy needed is reduced, and hence combustion can be reached using less fuel to perform the same amount of work i.e. move the car the same amount by the same speed.
In addition to reducing the amount of fuel needed, as well as lowering the amount of emissions released, there are a number of beneficial reasons to opt for Opti-Diesel.

This includes it being a low hazard material that is easy to use and easy to utilise. All the user need do is add the additive directly to existing fuel, or if needed, they can also add large amounts of Opti-Diesel to bulk tanks. For those thinking of using Opti-Diesel with their vehicular fleet (such as delivery companies, haulage companies, etc), it is recommended that you use a properly calibrated dosing system for bulk dosing.

The additive has no negative impact on existing emissions controls system or engine wear and can be added to fuel at distribution points whether in individual fuel tanks during refuelling or via direct injection into the fuel as it is being pumped into the vehicle engine. Better yet, Opti-Diesel can be used with practically any vehicle as the additive requires no specialised equipment to install or utilise, and it requires no modifications to the existing vehicle’s engine.

With such a wide range of benefits, it’s easy to see why Opti-Diesel has made such a splash in the industry. Not only does it reduce the amount of fuel needed to travel, it also reduces the cost of fuel as less is needed, whilst reducing toxic emissions and harmful gases. Numerous tests have been done around the world to confirm the validity and reliability of Opti-Diesel and its ability to improve Specific Fuel Consumption (the amount of fuel needed to perform work).

In fact, real life tests showed within just 400 miles, there was already a marked improvement in fuel consumption and a reduction in carbon emissions. With the ability to transform the way we think of fuel consumption, Opti-Diesel has been a hot topic in multiple industries and has been tested in numerous countries around the world. One of these includes an internationally recognised South Africa-based mining firm who added Opti-Diesel to their bulk refuelling tanks via a calibrated dosing system.

Over the course of a year, they experienced a 12.34% reduction in fuel consumption, a 75% reduction in carbon monoxide, a 99% reduction in Nitrogen Monoxide emissions and a 55% reduction in Nitrogen Dioxide emissions, leading to 91% reduction in total Nitrogen Oxides, and finally a 47% reduction in harmful diesel particulate matter. Of course, this was topped by excellent maintenance and cost-savings as well.

Smoke/opacity tests were conducted by leading trucking company Collett & Son were conducted on two modern vehicles to determine the impact on modern truck engines. A 26 tonne Scania rigid vehicle with a Euro VI engine and a 44 tonne DAF tractor unit with a Euro VI engine. Both underwent ‘before’ and ‘after’ smoke test on the same test machine.

The first test carried out on the 16/2/2017 on the Scania showed a smoke/opacity level of 0.22. The vehicle then had Opti-Diesel added to its fuel and was re-tested having travelled 980 miles since the first test. The second test on the 22/2/2017 showed an opacity/smoke level of 0.05. A reduction of 77.27%, which is consistent with previous results on earlier engines. A similar test carried out in March 2017 of a Euro VI engine (the cleanest standard available) in a 44 tonne DAF tractor unit recorded a reduction in smoke of 50% (0.02 to 0.03).

Both improvements in smoke/opacity were achieved within 1,000 miles of being treated with Opti-Diesel.

Testing on a range of different engines under both laboratory and live conditions in different countries including the UK have all recorded a range of improvements in fuel consumption and reductions in emissions. As will be seen in this document the range of improvements is significant, outstanding and impressive.

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Given that Opti-Diesel can be added to any engine without modification or change, it has the potential to be used in far more than your average car. Opti Innovations have plans for their catalyst to be used in everything from heavy machinery to stationary engines (for example, those used for emergency power generation) and on engines in ships.

Going above and beyond in all areas of the business, Opti Innovations also prioritise giving their customers only the best and most excellent customer service possible. They champion loyalty, honesty and ensuring each client gets the very best in accordance with their needs. In addition, they also offer great after sales support, with a dedicated, fully trained and knowledgeable team of staff on hand to give customers expert advice and guidance.

If you are looking to reduce the carbon footprint of your vehicle or even fleet of vehicles, and would also like to save some money, then don’t hesitate to get into contact with Opti-Innovations today to order your supply of Opti-Diesel. If you would like further information on the company or product, feel free to check out the website. T 01422 349188

www.opti-diesel.com
**Industry Update**

**Test, Measurement & Sensors Update**

**Portable Vibration Calibrator from PCB Piezotronics**

The Modal Shop’s Portable Vibration Calibrator offers laboratory grade accuracy and documentation in the form of a field instrument, allowing industrial plants to reduce perceived risk when under review for business interruption insurance.

Capable of validating accelerometers, velocity sensors, proximity probes and 4-20mA loop vibration sensors, the 9110D creates ISO 17025 compliant calibration certificates in Microsoft Excel. A printed and flash certificate – along with field confirmation of critical condition monitoring alarms – provides proof to insurance risk engineers that a plant is following recommended best practice standards for maintaining its condition monitoring system.

Battery powered, rugged, lightweight and with superior payload capability, the 9110D makes field calibration of industrial instrumentation simple and efficient thanks to a variety of world-class innovations.

These include closed-loop control, whereby speed remains steady as amplitude changes for confirmation of alert and alarm trips at machine running speed, on-board ICP® power and bias fault indication and real-time sensitivity display to provide instant pass/fail indication.

T 01462 429710
www.pcb.com

**Smart safety sensor**

On show at Southern Manufacturing was Bernstein’s SRF (Safety RFID), a non-contact safety sensor that monitors moveable safety guards, such as doors, flaps, and heads. With its innovative diagnostic system, the SRF makes safety circuits suitable for Industry 4.0.

The system provides a multitude of diagnostic data of each sensor, even in a series connection, to support smart product. Diagnostic data will deliver cost-effective predictive maintenance in a simple way; through its advanced fault recognition capability, costly machine shutdowns can be prevented.

Other products on show included the flexible and economical i865, the slimline 481, and the new M915 magnetic safety switch. In addition, a range of switches, sensors, and enclosures could be viewed.

T +44 (0)1922 744999
F +44 (0)1922 457555
enquiries@bernstein-ltd.co.uk
www.bernstein-ltd.co.uk

**Oil Condition Monitoring for industrial applications**

Tan Delta is the global leader in oil condition monitoring technologies. Unique full spectrum holistic oil monitoring allows owners/operators to improve the performance of their equipment, and increase operational reliability and safety.

Tan Delta have developed application-specific kits which are quickly and easily fitted to industrial engines, hydraulics and gearboxes enabling oil to be monitored and tracked continuously in real time.

- Significantly reduces maintenance costs
- Increases equipment efficiency
- Extends equipment life.

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**Vibration Sensors**
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- Wide range of Single and Tri Axial sensors. +/- 0.05% accuracy
- High operating temperature and environmental sealing
- Plastic, anodized aluminium or stainless steel housings
- Application specific designs available on request

**Pressure Sensors**
- Extensive ranges from heavy industrial to board level
- Gauge, absolute and differential pressure to 0.01%
- Wide range of threaded pressure ports or flush mount
- Choice of electrical outputs, ATEX approved
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- High operating temperatures available

**Linear / Rotary Position Sensors**
- Extensive range of products available for OEM and end user
- Multiple sensing technologies to suit the application
- Ranges from 0 to 100mm linear, 0 to 360 degree rotary
- Infinite resolution and excellent linearity options
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- Many custom options available on request

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- Range of high quality foil and encapsulated foil designs
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- High temperature strain gauges to 1322°C
- Standard and custom range of adhesive gauges available
- Installation service available
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**Data Acquisition Systems**
- 1000 Channel capability
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18 Industry Update is sponsored by NSF Controls – see them on pages 3 & 22
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norder to ensure the safety of their workers, surrounding community and neighbours. Casella offer a range of specially developed noise, air, and dust measurement instruments that have been designed to provide some of the world’s best air sampling and noise measurement technologies. This includes wireless monitoring technology that can remotely monitor dust or noise, and report back to users’ email inboxes with live, accurate measurement data for early alerts to elevated exposure levels. Global Marketing Manager, Christine Modla-Thomas, says about their instruments, “We provide a host of different measurement technologies, including air quality, noise, dust and vibration monitoring for the workplace and environmental sites. Our personal noise dosimeters and real-time dust monitors are simple to use and ideal for those working with loud or potentially hazardous dusty operations, or for people working on or situated near environmental sites, so measuring different risk levels around perimeters using real-time data.”

“At Casella, they are constantly innovating new measurement tools and coming up with new user friendly measurement tools. In February 2018 they launched the Flow Detective, an all-in-one airflow calibrator that can work either as a compact lab or field portable calibrator. It boasts amazing features, such as high accuracy calibration within 2%, a 78-hour battery and automated calibration within 10s seconds with APEX2 pumps. The Guardian2 is another all-in-one solution that offers continuous and long term environmental and construction site monitoring for noise, dust, vibration, wind speed and direction. Capable of being powered by either mains, batteries or solar power, the Guardian2 is easy to install, comes with either single or multiple sensors, and is ideal for very remote locations. Thanks to their ingenious monitoring tool designs, time saving effectiveness, and ability to better measure exposures, the health of both workers and the wider community is aiding improve health of future generations.”

Casella’s solutions can be seen across multiple industries, including construction, food, woodworking, oil and gas, mining, pharmaceuticals, and even leisure and arenas. Not only that, but they can also be used for domestic nuisance complaint monitoring.

Aerospace & Design Engineering

www.casellasolutions.com
info@casellasolutions.com
T 01234 844100
Contact Casella to find out more or call to speak to one of the team, or check out the website.

Farnborough Aerospace Consortium

We are a not for profit trade association acting as a facilitator of business between large global primes and the supply chain and, as an enabler of business support to its members and partners. We are one of the most established aerospace and defence associations in the UK, providing support to, and furthering the long-term strategic growth of the sector in the South East of England. We are located in Farnborough in the South of England close to London. We have a unique national & international membership of global primes, medium and small sized firms. We also have several world leading aviation research centres within our membership.

This enables our organisation to be uniquely positioned to understand the requirements of global organisations, influence research programmes, enabling small and medium sized firms to offer solutions and improve their business winning opportunities. FAC is rapidly becoming recognised as a provider of one-stop solutions to major companies, in either finding specialist suppliers of goods and services or forming consortia capable of delivering entire systems to thereby reducing procurement costs.

The National Aerospace Technology Exploitation Programme (NATEP) – 100 Novel Technologies delivered by UK Aerospace supply chain companies, supported by the UK’s Regional Aerospace Alliances, FAC being responsible for the South East Region. The programme is funded by BIS as part of AMSCI (Advanced Manufacturing Supply Chain) initiative – for further details, please email: NATEP@fac.org.uk

Industry Update is sponsored by UNISIG – see them on page 13.
Automation. Why risk human error when we can program devices to do it for us?

That’s why Lascar has manufactured a new range of products that automate temperature and humidity data logging, data storage, and instant alarm notifications.

Collecting and tracking changes in environmental data is important – for example the temperature of a vaccine fridge or the humidity levels of a display case that holds a rare artefact – it’s vital we know about changes in that environment immediately. Failure to spot subtle or significant changes could result in the loss of hundreds of thousands of pounds worth of vaccine or put an exhibit in danger of irreversible damage.

Before the introduction of data loggers, a simple thermometer or chart recorder would display temperature and humidity but such devices did not record longer term data or communicate instant notification. Add inaccurate readings, devices did not record longer term data or communicate instant notification.

Before the introduction of data loggers, a simple thermometer or chart recorder would display temperature and humidity but such devices did not record longer term data or communicate instant notification. Add inaccurate readings, devices did not record longer term data or communicate instant notification.

With no human intervention required, data loggers automate data collection – remotely, securely and instantly.

Never miss a critical alarm with instant email alerts

On the EasyLog Cloud, critical data is stored securely and indefinitely. View sensors in multiple locations in a single account. Change their settings remotely and view a record of any past triggered alarm events. Powerful graphing functionality allows extensive analysis and review and its flexible notification system means you’ll never miss a critical event such as an alarm breach.

Simple device set up

Device set-up is simple using EasyLog’s smartphone App. Once complete, place the sensor anywhere within the WiFi network where data will be streamed to the EasyLog Cloud. EL-MOTE sensors have single and dual channel options and are waterproof for use both indoors and outdoors. Each sensor has a battery life of up to two years or can be main powered and include an on-board indicator and sounder.

Temperature and humidity data collection is an inevitable and growing requirement from a due diligence, regulatory and peace of mind perspective. Automating both collection and alarms allows us all to breathe a little better at night knowing we have all the answers at the swipe of a screen, 24/7.

Contact
T +44(0)1794 884567
www.lascarelectronics.com/data-loggers
Filtertechnik launches all new Particle Pal Life

A self-contained portable device that accurately monitors particulate, water content and remaining life of any oil.

The importance of monitoring the condition of any given oil should not be underestimated. Oil is the lifeblood of all hydraulic, engine, plant and rotating machinery. Oil, that is either contaminated through water or particulate ingress or is coming to the end of its useful life through additive depletion or excessive oxidation, should be monitored closely to avoid costly breakdowns and unnecessary system failures.

A survey of over 20,000 oil sample lab results taken in the UK from Off Road/Plant equipment showed that in over 85% of cases oil was being changed at the wrong time by relying on OEM timing intervals rather than via condition monitoring. In the vast majority of cases oil was being changed too soon.

Introducing the all new Particle Pal Life, combining a Particulate Laser Counter with a Water Sensor and an accurate Full Spectrum Holistic Oil Condition sensor from Tan Delta. The all new Particle Pal Life gives a portable, real-time view of an oil’s condition including a percentage of oil life used. Particle Pal Life is controlled and operated via an easy-to-use tablet App, built into the design. The software shows cleanliness and water levels in real-time as well as oil condition/remaining useful life. All data is logged, can be recalled and added to in order to build up a trend history. Automatic off-site data backup for additional safety and archiving/security of results is also included.

Particle Pal Life is an extension of the award-winning Particle Pal range. These models cover Particulate, Particulate and Water sensing and now Particulate, Water and Oil Life. Suitable for just about any oil or diesel fuel monitoring application the Particle Pal range offers affordable portable monitoring and logging of results.

All Particle Pals are portable field kits with their own pump and battery packs. Samples can be drawn from equipment running live under pressure or drawn into the unit via a sample bottle. Viscosities up to 420cst are catered for as standard with higher viscosity oils capable of being measured if pre-heated to 40-55°C. Engine oils can be measured for water content and oil life but not ISO codes as Laser Particle counters do not work on opaque fluids.

Filtertechnik has over 15 years of experience in the supply, installation, and manufacture of Laser Particle counting enabled equipment. Our Particle monitors are accurate to within ±0.5 of an ISO code with a repeatability of ±0.1%. Reporting in ISO, SAE, and NAS classes as well as giving the particle quantity counts in the 4, 6, 14, and 21 micron sizes.

The built in Tan Delta Full Spectrum Holistic Oil Condition sensor monitors the overall condition of the oil giving you unparalleled sensitivity, accuracy, and precision; this enables the oil’s remaining useful life to be calculated and displayed. The sensor will work with virtually any oil and the App has a built-in database of over 500 common industrial oils. Filtertechnik partnered with Tan Delta as their sensor is the market leader, it’s proven over many years of operation and is over 60 times more sensitive to oil degradation than any other dielectric type measuring sensor.

For Oils not on the database Filtertechnik have included a one-time self-calibration routine. Virgin oil is taken through a heat cycle to build a profile for the oil; this profile can then be used to determine the remaining life of used oil of the same type. All equipment to take and test samples as well as heat oil is included in the kit.

Particle Pal Life gives engineers unparalleled live information as to the state of their oil allowing them to make informed choices regarding their plant and equipment.

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Matthew Davies, Marketing Assistant
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matthew@hydrotechnik.co.uk
Managing safety:
Simplifies safety hazard sheets

It is a well-known fact that many in industry find the information on a Safety Data Sheet (SDS) “too technical” to understand. In addition, many are still trying to get to grips with the changes brought about by the introduction of the Globally Harmonised System (GHS) Regulation.

As a result, SDS are not read but filed away until accidents occur. Secondly, COSHH is a legal requirement but many in industry are finding it a challenge to keep their COSHH assessments up-to-date with the changes taking place whilst some simply just don’t have in-house expertise or the time to deal with the complexity of GHS SDS.

Environmental Science Limited (ESL) has addressed these issues by updating their software called ‘GHS WASPS’ (Workplace Action Safety Protection Sheet) which enables users to easily produce a workplace safety hazard sheet from a complex GHS SDS.

Industrial hand protection

A brand-new silicone free Nitrile glove incorporating raised Grip Technology, chemical resistance, dexterity and comfort for workers in automotive, engineering and industrial maintenance environments has been launched by hand protection experts Unigloves.

Designed for workers operating in sectors including 1st and 2nd tier automotive manufacturing and aftermarket, the new PROJECT Orange HD protects against a range of common industry substances including oils, grease, paints and other fluids such as brake fluid, thinners and diesel.

The nitrile construction means improved resistance to snagging and scuffs while offering high-level dexterity and comfort. Its heavyweight construction also makes it tough, durable and long lasting compared to traditionally used disposable gloves.

PROJECT Orange HD also features innovative raised grip technology on the palm and fingers, providing enhanced grip handling for workers in wet and oily environments.

Manufactured from a silicone free, synthetic nitrile rubber formulation which is tested and approved to EN374, AQL 1.5 and is both powdery and latex free, the new PROJECT Orange HD gloves are therefore ideal for painting and bonding applications, removing the threat of glove-borne paint contamination and expensive re-working.

Industrial hand protection

Delivering a more compact, cost-effective shut-off valve solution for smart meter suppliers, NSF Controls has produced a shut-off valve that can be engineered to exact requirements and applied across a diverse range of utilities meter applications as well as for other positional locking device uses.

With growing demand for gas meters, the leading UK designer and manufacturer of solenoids, switches and a specialist provider of customised electro-mechanical assembly services, developed the innovative solution to meet a new requirement for a shut-off valve to regulate the gas usage.

Offering an exceptional sealing pressure, flow rate, compact size and proven track record with over seven million installed, the success of this gas valve project has positioned NSF Controls as an authority within energy and utilities sector.

UK-manufactured and in compliance with BS EN 1359:2007 and BS EN14236:2007 for resistance to gas vapour, electrical safety and thermal class standards, NSF Controls ensures a 20 year or 10,000 life cycle.

Find out about NSF Controls Shut-Off Valves at: www.nsfcontrols.co.uk/our-products/shut-off-valve

T 0845 009 0083
https://unigloves.co.uk/orangehd_samples/

Health & Safety Update

Pumps, Valves & Flow Control Update

Shut-off valve solution for smart meter suppliers

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Offering an exceptional sealing pressure, flow rate,
The hunt for singing valves is on - VPAC II

Jona Nyren sat in his office in Stenungsund. He opened the instrument box that had just arrived, removed the lid and sucked in the smell of freshly manufactured foam rubber and plastic.

The content had cost roughly a year’s wage. That’s nothing, thought Jonas, compared to all the money it will save. He did not know, then, that the company was about to save 20M crowns per annum after only 40 hours of work.

"The flares flame has been bigger than usual for a long time now, hasn’t it?" asked Samu Salo while watching the tall, narrow tower that burns the hydro-carbons from the control and safety valves of the cracking plant.

"Yes, and yet we haven’t had any stoppages for quite a while," replied production manager, Jörgen Grönberg.

Both of them disliked burning the volatile, carbon-based compounds. But what were they to do? Releasing them into the atmosphere was even worse; the risk of gas clouds and explosions had to be avoided. Yet a big flame meant failure or at least a loss of income. They stood studying the torch for a while. The plant has thousands of control and safety valves and by analysing the composition of the gas in the torch they usually try to identify the leakage, the valve. They tightened the tap and the valve fell silent. From amongst his documents the vendor Leif found the table value for exactly the valve they had just closed. "Four litres per minute," he said.

"It’s like looking for a needle in a haystack," said Jörgen Grönberg.

The conference room had been filled with representatives from different parts of the corporate group. Samu Salo had been the representative of the Swedish crack – back from the meeting. During one of the talks he had caught a sentence that might otherwise have passed unnoticed. Maybe he had a solution to the problem?

After about ten years in production, serving as process operator, Jonas Nyren had become responsible for education & his task was now to train the next generation of operators even though there were still several years between him and his eventual mid-life crisis. Therefore, it was a little strange that production manager Jörgen Grönberg had thing was to be demonstrated, an instrument that could be demonstrated, an instrument that could measure leaks by means of ultrasound.

At last the vendor left. Jonas stormed into his office. After a few measurements he had understood what the instrument would mean for the cracking plant and from that point on he had been waiting for the vendor to leave. He turned on his computer and fiddled with the edge of his desk while it booted.

"OK, let’s see... The ideal gas law. Right. The temperature and then the mole weight."

It was as he had suspected. The leak which the vendor had found meant saving as much as the ultra-sound instrument would cost.

Jonas became the project’s manager. Martin Sijen from the leak detection group was assigned to listen to the ultrasound drones of the control and safety valves. Quickly he worked his way up the winding steel stairs of the rectangular and 1/4 foot high plant for cracking into ethene and propene.

The valve was quiet, mute. Not a decibel more than the background noise. The next valve was also mute, and the one after that. But then something happened: the fourth valve sang. The vendor measured the noise levels in the pipes before and after the valve and observed that the level dropped on both sides.

"There’s a leak here," he stated, pointing at the valve. They tightened the tap and the valve fell silent. From amongst his documents the vendor Leif found the table value for exactly the valve they had just closed. "Four litres per minute," he said.

But for Martin there is probably a lot more music to be conducted twice a year.

Acoustic emission

Acoustic emission takes advantage of the fact that every leak creates a turbulent flow and thus an ultrasound. For liquids the frequency is in the Vicinity of 100kHz whereas for gas flows it is around twice as much. This high frequency sound can be separated from the surrounding equipment whose frequency is a power of ten lower.

A drawback is that valves which leak a lot of gas or liquid get a laminar flow and consequently cannot be discovered by the measuring equipment. The laminar flow begins at an opening of the valve about 15%. On the other hand, all kinds of valves can be checked as long as they are made of a material through which the sound can propagate.

The ultrasound created depends on many factors, amongst others the type of valve, the dimensions, the pressure and the viscosity of the medium. These factors can be entered into a software program and the operator can thus get information on the size of the leak (in litres per minute) and annual loss.

**Facts:**

**Less waste**

- At Borealis’ cracking plant in Stenungsund about 0.75% of the total amount of supplied hydrocarbons were lost per annum. After the valves had been checked the amount went down to 0.55%. The measures taken were to either replace or tighten the leaking valves.

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Pumps, Valves & Flow Control Update

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**Software & Information Technology Update**

**Improve what you do and how you do it with Antycip Simulation**

Antycip Simulation has two core offerings: simulation, analysis, and modelling software, which it sells into engineering services.

Antycip Simulation has recently announced a new range of advanced tools for virtual reality programmes, Antycip Simulation can be found at numerous tradeshows throughout the year. It recently attended the Advanced Engineering show in November 2017, at the NEC in Birmingham, as it gave the company a great opportunity to network with new customers and partners.

If you would like to find out more about Antycip Simulation’s wide range of specialist services, then don’t hesitate to contact them today.

Contact

T 01869 343033
www.antycipsimulation.com

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**METALUBE Update**

**Protecting Your Plant Instant Shutdown Before Things Go Wrong**

All Metachain products are manufactured at METALUBE’s headquarters in Manchester, UK. Here, the company has a brand new state-of-the-art laboratory that employs a talented team of chemists, who have designed and created a range of products that meet the highest standards of advanced modern chain lubrication. Benefits include longer operational life of the lubricant, extended life of the chain, due to the high quality of base oils and additives; less time spent lubricating and replacing chains resulting in customers’ saving time and money.

T +44 (0)161 775 7771
post@metalube.co.uk
www.metalube.co.uk

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Unit 1155, Acton West, Aldershot, Hants GU12 6TF
Power Supply Company of the Month

Trusted, varied power supply

Established in 1995, Ecopac Power has over twenty years’ experience in providing outstanding service, technical backup, stock and delivery of a huge range of AC-DC power supplies. As one of the largest Mean Well distributors in Europe, they have generated an estiable reputation over the years as a reliable, cost-effective and customer-oriented supplier and distributor, with extensive product knowledge on all of their wares.

Based in Long Crendon, Buckinghamshire, Ecopac Power can supply everything from power supplies to LED power supplies, dcdc converters, chargers and inverters and much more, with products starting at just 1 Watt and increasing all the way up to 10,000 Watts, and as such being able to meet a wide scope of power needs. Ecopac can provide products from a number of manufacturers, and are among the most popular authorised UK distribution of Mean Well power supplies, LED power supplies & LED drivers. Not only that, but they can also provide Motion, Powermate, Vox Power, Eaglesir, EU Chips and their own Ecopac branded products, all of which meet worldwide requirements and product approvals to UL, CE, CSA, VDE and EN standards.

We spoke to Managing Director, David Sproat, about what unique benefits customers can expect from working with Ecopac, to which he explained, “Many of our power products are world firsts, providing a large variety of mechanical formats including open frame, chassis mount, PCB mount, encapsulated, rack mount, external and DIN rail.

“The CropTec Show’s unique blend of innovative trade stands and topical seminar sessions has again proved a strong draw for progressive arable farmers and agronomists looking to improve technical and business performance.

Over 4,000 visitors flocked to the two-day event, which was held on 29th and 30th November 2017 at the East of England Showground, Peterborough. More than 170 companies, many at the forefront of arable innovation, had exhibition halls at the show. They provided an ideal opportunity for key decision makers from farms across the country to discuss the latest crop science, technology, products, and services. The CropTec seminars and knowledge hubs – short, sharp presentations delivering key take-away messages – hosted more than 30 of the sector’s leading experts and also drew large audiences. The seminars covered four key areas, affecting profitability – crop establishment, crop nutrition, crop protection and crop breeding, and several sessions were standing room only. The knowledge hubs examined black-grass control, cooled rape quality and weed management, biostimulants, and data & analytics.

The CropTec Show returns to the East of England Showground, Peterborough on Wednesday 28th and Thursday 29th November 2018. This is out pick of the best exhibitions from last year’s show, listed here in alphabetical order: AminoA Biostimulants, Grange Machinery & Yagro. Further details can be found on this here.

AminoA Biostimulants chooses CropTec 2017 to launch new products

UK-based biotechnology company, AminoA Biostimulants, officially launched its new liquid range of biostimulant products at CropTec 2017. AminoA FLO is a highly concentrated, liquid amino-acid complex developed for the large scale arable farmer. It contains seventeen amino acids, the latest crop complementing technology to make it suitable for mixing with other agrochemicals.

The company also launched AminoA GRO, a liquid liquid-amino acid complex formulated from vegetal source material and flavo-acid. AminoA GRO is approved for use in Organics.

Richard Phillips, Managing Director, AminoA Ltd commented, “The products are deliberately designed to have broad spectrum activity as they contain every essential amino acid that plants synthesise throughout their growth cycle. Therefore, if applied to the plant at any stage from seeding to maturity they can contribute positively to yield and quality if the plant is not already producing an optimal level of amino-acids itself.

“We are satisfied that repeated use of our products in combination with other agrochemicals will enhance their effectiveness and produce a yield increase in the crops. Most of our customers are conventional arable farmers who have realised that the judicious use of biostimulants can boost yields and profits whilst at the same time sustaining the fragile eco-system in our soils.

“We were very pleased with the grower and distributor response at CropTec 2017, and have already rebooked our stand for 2018.”

AminoA Biostimulants are available direct or through selected distributors – for more information, see www.aminoa.co.uk or call 01633 894300 or email enquiries@aminoa.co.uk

Grange Machinery

Grange Machinery is a family run company based in Holderness, East Yorkshire. We sell and supply agricultural machines, wearing parts and offer affordable solutions to farmers locally and nationally.

The company supplies machines across the UK and over to Europe. Our low-Biostance Toolbars help lower the cost of crop establishment and provide farmers with a versatile machine to use with a range of trailed implements.

We have recently launched a new machine to the market, the 6m Low Biostance Toolbar. The three point link mounted implement has been designed and built to offer compliance versatility to the farmer. The toolbar can be used in conjunction with any form of trailed implement or as a standalone unit. The option of hydraulically lifting/ lowering the low biostance legs in front of the trailed implement without affecting trailed setup is enhancing and adding versatility to current machines on farm without adding the expense of a brand new drill or cultivator that is limited to one process.

Procure key inputs with Yagro

Businesses across the UK are welcoming an online and efficient way of procuring key inputs thanks to Cambridge-based Yagro Ltd. Yagro offers an online platform for rapid quotes on industrial inputs such as fuel, machinery parts, agrochemicals, and fertilisers.

“We founded Yagro two years ago, with a focus on the agricultural industry,” explains Dan Lilly, Co-founder. “We’ve been delighted with the industry’s reception, with almost all over 700 farm businesses on our books.”

But the solution has found new uses, including helping companies looking for bulk-haul fuel thanks to the platform’s speed and competitive pricing.

“It’s very quick, you’re not going backwards and forwards haggling for a better price,” says Liz Ground of Coston Hall Farms, a 450 unit unit farm in Holderness, East Yorkshire. “It makes the whole quoting and order process simple and effective for both, the supplier and customer. A pleasure to deal with.”

To find out more, call the Yagro team at 0330 043 3513 or register at www.yagro.com
Blast freezers

Rick Bestwick, part of the Magnavale Group, has installed three blast freezers from Blue Cube Portable Cold Stores at its start-of-the-art Warrington and Scunthorpe facilities. Representing an order of nine blast freezers in total, the contract packer and cold storage specialist chose the high performance 28-pallet 62kW and 115kW units for their energy savings, cost efficiency benefits.

Rick Bestwick provides a complete range of supply chain solutions and added value services including frozen, chilled and ambient storage, blast freezing, microwave, order picking and dispatch, rapid air tempering, repacking, labelling and data coding.

Blue Cube – one of the UK’s leading providers of rental temperature controlled storage solutions for the food and logistics industries – has supplied five 28-pallet blast freezers offering 39.49m² of usable space to Rick Bestwick’s Chesterfield site and another four units across the Liverpool, Scunthorpe and Warrington facilities where they are attached to the cold store areas.

T 0333 320 2620

In-line bag filter system for hazardous applications

Amazon Filters announces the launch of the new 86B Series Bag Filter housing which has been designed to provide a safety critical, cost effective in-line filtration solution for hazardous or high temperature fluids.

The robust cast head of the 86B Series bag filter housing incorporates an integral one-piece unique cast head, featuring in-line connections for the inlet and outlet, double vent ports, and a special bolt retaining mechanism. With minimal product hold up, volumes 20% less than conventional side entry housings, and easy access to the disposable filter bag via the retained hinged lid, operators will appreciate the ease-of-use and time saving design features.

Available in 316L Stainless Steel it is suitable for operating parameters of 10 bar at 50°C with flow capacity of up to 30m³/hr. Two housing sizes are available for the 7” diameter bags, P1 (16“) single length and P2 (32”) double length.

The 86B Series perforated basket is fully compatible with almost all standard commercially available filter bags.

For further information on the 86B bag filter housing, please visit: www.amazonfilters.com/products/filter-housings/bag-filter-housings/86-series or contact Amazon Filters on +44 (0)1276 670600 or email: sales@amazonfilters.co.uk

Pregis strengthens European operations following Easypack acquisition

U.S. packaging giant, Pregis LLC, is expanding its European operations across Europe following its 2016 acquisition of the UK’s leading environmentally friendly packaging brand, Easypack Limited.

Over the last two years, Easypack Limited has strengthened its entire operations in preparation for European growth, and from January 2018 the Company will trade as Pregis Limited.

The change of name allows the company to further expand and develop new opportunities through its new portfolio of innovative protective packaging solutions and its increasing European distribution network.

Customers across Europe will have access to some of the most advanced packaging systems in the world, which are currently enjoyed by thousands of major US brands from across all sectors.

The Easypack range of eco-friendly packaging solutions will continue to be an important part of the Pregis Limited offering; design and manufacture will remain in the UK and customers will continue to be fully supported, now with the added benefit of having access to further, complementary solutions. Its 100% recycled, recyclable, and biodegradable paper packaging will continue to be distributed from its UK production centres.

Pregis Limited will be introducing a number of exciting new packaging solutions throughout 2018. For more information, or to sign up for their latest packaging innovations and event information, visit: www.pregis.eu

T 0333 320 2620

Statistical process control

Version 3.0 of Minebea Intec’s powerful SPC@Enterprise offers customers a complete statistical process control solution that is both comprehensive and user-friendly.

The software captures data from various devices and systems along the production line. Professional evaluation of this data, alongside classic Filling quantity control, facilitates dynamic and HACCP-compliant process control. The result is consistent product quality and optimum productivity.

Statistical process control plays a pivotal role in the control and quality assurance of production processes. Minebea Intec’s SPC@Enterprise software is able to network a wide range of devices and systems necessary for the complex processes involved in the food industry. All master and test data are stored centrally and are available for evaluation at any time.

T +44 (0)20 779 3313
www.minebea-intec.com

FEG upgrade

FEG, an engineering company based in Washington, Tyne & Wear, undertook a project for Silvery Tweed Leisure’s to upgrade the cooling capabilities of their flaking line.

The drivers and justifications for the project were to reduce pre-pack temperatures, reduce floor waste, simplify cleaning and remove the danger of long term breakdown. The £250,000 project was the culmination of 12 months’ work which, from going live, immediately delivered a 51% reduction in pre-pack temperatures in comparison with the old line.

Silvery Tweed wanted to move away from industry standard drying, cooling conveyors which use individual slats on a chain drive, as the nausea producer had found an engineering company that was up to the task; it was this element of the project that took most of their time.

FEG rose to the challenge and delivered on all expectations of the food company’s brief.

T 0191 417 3479
www.feg-global.com

IChemE Forms of Contract

The Institution of Chemical Engineers (IChemE) Forms of Contract are an internationally acclaimed series of model forms of agreement, developed to reflect best practice for project delivery in the process industries.

Drafted by a team of legal and industry professionals, our contracts address the complex way in which the purchaser, supplier, and systems necessary for the complex processes involved in the food industry. All master and test data are stored centrally and are available for evaluation at any time.
**Getting electrical safety clear the risks to the end-user.**

In order to mitigate risk, design criteria should be specified that will eliminate, reduce or guard against hazards. If this is not possible, the use of protective means must be additionally specified, such as what personal protective equipment should be used.

Either in addition to the first two measures, or if neither are appropriate, markings and instructions should make clear the risks to the end-user.

By Richard Poate, Senior

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**Blue roof launch**

Eland Cables Ltd has launched its roof solution for constructions within flood sensitive and urban areas. The flat roof specialist reveal a unique flat roof design that will revolutionise the build environment, to aggressively launch the system to industry experts and professionals.

As the conversation surrounding Sustainable Urban Drainage Systems heightens, Bauder has approached the challenges of localised flooding and standing water head-on by developing BauderBLOC for roof top and podium solutions. The blue roof system manages rainwater discharge by alternating water and relaxing at a steady rate within a 24 hour window.

Each BauderBLOC roof solution is unique, as calculations for the flow-resistor are specific to each project to ensure that the water run off during storm conditions meet the requirements of local planning authorities, whilst ensuring structural integrity.

“The Bauder brand is recognised for the proactive approach we take to developing our roof systems and the high standards to which we deliver. With the introduction of the SDD legislation, the evolution of our ever popular green roof system was a natural process. Using rooftops and podium solutions will address the access water issue at source by providing the necessary drainage along with regulation compliance and optimal water proofing,” comments Nigel Blacklock, technical director at Bauder.

T 01473 257671

info@bauder.co.uk

www.bauder.co.uk/blue-roofs

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**Eland Cables launches Veriflex® brand – BSI Kitemark tested with next day delivery**

Eland Cables, the global supplier of power, data, control & instrumentation cables, and cable accessories, has launched Veriflex® – its own brand range of industrial automation cables.

Unique to the industry, these cables for control, sensor and sheathed applications have been tested against British and European standards under the new BSI Cable Batch Verification Kitemark®. Veriflex® cables are subject to stringent tests in Eland’s ISO 17025 UKAS accredited in-house facility. The Cable S automatically records the results for every cable, allowing the relevant standard to be tracked and traced for the life of the cable, which is unique to the BSI approach.

Described by BSI as a “new benchmark in cable compliance” Eland Cables is the first company to hold this coveted third-party mark of approval.

BSI Technical Certification Expert, Paul Turner confirmed, “The Cable Batch Verification Kitemark is applied to products, including the Veriflex SE, CY and YF range of PVC and LSF and control cables, under strict UKAS test parameters and subject to BSI’s rigorous surveillance programme. The range of tests provides third-party assurance that cables meet relevant British and international standards for key safety criteria, making them fit for use in appropriate applications.”

Tests on component layers, as well as the completed cable, will cover key material tests necessary to ensure that the cable properties match intended performance and construction. These include vertical flame propagation, conductor resistance, and tensile & elongation in insulation and sheathing materials.

www.elandcables.com

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**Lighting & Electrical Update**

**Pets at Home switches to LEDs**

The last 18 months have been an eye-opener for Pets at Home’s ambitious plans to reduce energy costs of its warehouses and retail stores. Installing an LED lighting system can be one of the quickest and most cost-effective ways to improve sustainability and increase a building’s energy-reducing, Pets at Home decided to trial the expertise of the UK’s foremost designer of lighting and control solutions, Luxon.

Luxon recommended that the HI-MAX® range of luminaires be used in conjunction with their wireless networking control system. With a lifespan of 60,000 hours and performance of up to 82% luminaire power circuit saved, the HI-MAX® range is one of the most energy efficient lighting solutions available for the logistics market. This view is shared by a large portfolio of customers such as Amazon. The first

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**Lux & Lumen from Kährs**

Kährs has launched two new ultra-matt wood flooring collections, Lux and Lumen. Recently winning Gold for ‘Best Floor’ at the 2017 House Beautiful Awards, Kährs’ Lux collection includes nine one-ply plank formats in an array of natural colours, which are mirrored in Lumen’s three- strip and two-strip designs.

The new surface treatment applied to the designs is non-reflective, enhancing the colour and beauty of real wood, while giving a silky, yet strong shield against wear and tear. Emanuel Litherby, Head of Design at Kährs Group, says, “Lux and Lumen have been developed for design-led interiors, with abundant natural light, for example with floor-to-ceiling glazing. Traditional lacquer finishes reflect light which obstructs from the floor’s appearance. Our new, ultra-matt finish is an important reflection so that the wood’s natural grain and tone can be appreciated to the full.”

The contemporary Lux Collection features nine floors spanning from the milky white ‘Ash Air’ to the earthly, deep-smoked ‘Oak Terra’. Lumen Collection offers mirrored three-strip and two-strip designs to complement Lux, or offer an alternative interior look. All designs feature a brushed effect, accentuating the natural grain of the wood.

Contact

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**Bespoke rooflights enhance London home**

Located in a West London conservation area, the existing property required updating by re-modelling the kitchen and dining room that suffered poor connection to the rear garden. North facing, these rooms received little daylight from the modest sized windows. It was a dark and dingy space.

Architect Simon Feinley’s response at Feinley Studio, was to reconfigure the ground floor providing a utility and cloakroom off the entrance hall with a formal sitting room at the front and the property. A full height sliding pocket door reveals a newly extended family room with a panoramic view of the garden. The roof of the extension is asymmetrical about the axis from the front door; providing increased floor to ceiling height and avoiding a long continuous corridor. Custom made East and West facing rooflights by Lonsdale provide generous amounts of natural light and are a focal point of the extension with dramatic results as the sun moves from early morning until dusk. Even on the shortest day, when the sunfall is upon the polished concrete floor, it runs throughout the ground floor, with daylight washing down the full height barrel-vaulted entrance hall in the contemporary kitchen.

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**Goodlight gives more light for less**

Passengers and staff welcome new LED lighting at Britain’s West Coast station

ED Eco Lights, the London-based LED lighting manufacturer, has announced that Network Rail has fitted its Goodlight LED lighting into all 18 platforms and the concourse at London’s Euston Station. Britain’s first busiest station, with over 66 million passengers annually.

Passengers and staff are benefiting from brighter, higher quality lighting and at the same time Network Rail is saving a significant saving in electricity costs and a reduction in its carbon footprint.

Adam Thackeray, Works Delivery Manager for Network Rail commented, “We decided to move to LED lighting to reduce our Carbon Output, reduce costs in terms of power consumption and to improve the lighting level and quality in public areas of the stations.”

The Goodlight LED lamps can easily be retro-fitted into the existing fittings, allowing the network to proceed with little disruption. The station has measured an increase in lux levels on the platforms and concourse, from approximately 75 Lux to the striking 210 Lux with Goodlight. The energy saving from the new lights is over 8000kW per year from the platform globe fixtures alone.

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**Industry Update is sponsored by UNISIG – see them on page 13**
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Test, Measurement & Laboratory Update

VBOX Test Suite

The versatility of Racelogic’s range of VBOX GPS data loggers, together with the various modules, inertial units, and displays that accompany and enhance them, has led to their extensive use within virtually every sector of the automotive testing industry.

To accompany the hardware, Racelogic supply a software package, VBOX Test Suite that significantly enhances the versatility of their data-loggers in constant use throughout the world. Developed based on extensive feedback from engineers who use a VBOX every day at the sharp end of vehicle development, the ethos behind the software is to significantly reduce the time it takes to conduct specific tasks to existing modern standards, and therefore caters to specialised applications as well as to more general testing.

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Drives & Controls Update

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Sheet metal subcontractor Accurate Laser Cutting's £700,000 investment in the UK’s first 10kW fibre laser has continued its success almost to the year it was first installed.

With its phenomenal processing speeds and improved processing capabilities, the 10kW Bystronic ByStar cutting system has set a new benchmark in laser cutting. The high-performance equipment is capable of laser cutting aluminium and stainless steel up to 30mm thick, mild steel up to 25mm, 15mm brass & 12mm copper. It can also laser cut mild steel up to 15mm thick, which is beneficial to customers who require an oxidation free edge on their parts.

Jon Till, company director, explains, “Nitro-cutting offers so much more to our customers. Previously, our ability to clean cut mild steel was limited to 3mm using our CO2 equipment. To now have the capability of five times that thickness is an incredible improvement and a major benefit to customers who require further secondary operation processes.”

This investment replaced its CO2 cutting equipment at its Tividale, West Midlands manufacturing premises. The laser cutting facility is fully equipped with two state-of-the-art Bystronic fibre lasers; one 6kW BySprint 4m x 2m and its newest investment, a 10kW ByStar 3m x 1.5m system. They also have a dedicated press brake facility on-site, which offers a maximum pressing capacity of up to four metres and 320 tonnes.

Steve Morgan, company director, says, “Following the success of replacing our first CO2 laser with a 6kW fibre laser in 2015, the move to upgrade our second CO2 was inevitable.” Its powerful 10kW output allows for accelerated cutting speeds and has provided a significant boost to capacity on the shop floor.”

Jon Till says, “In our view, having the best technology means we can provide the best service. With faster processing speeds, we have more capacity available to service our customers with even shorter lead times and still consistently deliver on quality and price.”

The company has come a long way in such a short period of time. No doubt with its continued record breaking sales, passionate customer care service and the production of high-quality components, Accurate Laser Cutting will continue to grow in stature and lead the way in the laser cutting industry.

Curtiss-Wright Surface Technologies (CWST) provides high quality surface treatments which will improve the life and performance of critical components through its global network of over 70 operating divisions and specialist onsite teams. Our surface treatments have been successfully used by OEMs in major industries such as aerospace, automotive, oil & gas and power generation for many years.

We are only too aware of the logistical challenges and costs faced by our customers and so we can offer a ‘One Stop Shop’ solution providing a wide range of surface treatments including Controlled Shot and Laser Shock Peening, bespoke and trade Coating Applications, Thermal Spray Coatings and Parylene Coatings for metal, alloy, plastic and electronic components as well as Analytical Services.

We offer our customers a single source solution and point of contact for all their surface treatments, supporting their requirements through our global network of over 70 worldwide facilities and on-site field teams, improving and reducing turnaround times and costs.

We are specialists in protecting components from common failures and reducing maintenance costs for key industries such as aerospace, oil and gas, automotive, medical and general industrial markets.

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Rotowash has a long and proud history, having first been established in 1947 by Karl Fink. We spoke to new Managing Director, Julian Stone, who sits on the Board of Rotowash Limited, about the background of the company. He explained, “Karl originally set up a die casting company in Austria and in the 1970s, the company diversified under the leadership of the Moskutti family and started to develop a floor cleaning machine. The first model was sold in 1971 and, shortly after this, we expanded further afield, distributing our Rotowash machines throughout Europe and beyond.”

“In 1981, Rotowash UK Limited was established in Islworth to serve the UK markets, initially supplying Rotowash ‘R’ and now our ‘M’ class models, a completely re-engineered product range that improved our Rotowash machines throughout Europe and beyond.”

Rotowash machines are most well known for their outstanding productivity and efficiency, for example the M600A can clean up to 1,800 m² per hour. Colour coded brushes prevent cross contamination, whilst the quick drying times significantly reduce health and safety risks, leaving the floor safe to walk and work on. All machines come with a three year warranty and they can be used in many different areas, whether it’s a small bathroom or an entire shop floor. The machines have a compact design and can be used in most hard to reach areas.

Many high power cleaners can often be difficult to operate, leading to arm, shoulder and wrist pain. Thanks to its user friendly design, the Rotowash minimises musculoskeletal impacts & subsequent disorders and are also easy to use. The Rotowash is also a favourite among businesses as it uses 99% less water and chemicals compared to traditional cleaning methods, slashing both costs and consumption. Better yet, they are long-lasting compared to traditional cleaning machines often struggle with. With our patented brush system, the machine can reach deep down into the irregularities of profiling floors and is equally effective for scrubbing and buffing flat surfaces such as vinyl, terrazzo and wood. On carpets, the versatile brushes extract the dirt, lift the pile and leave the carpet clean, well-groomed and dry within minutes.”

Rotowash cleaners can be found throughout various industries thanks to their ability to clean floors of all natures. They are popular in the health sector; such as in hospitals, clinics and residential homes, as well as in schools, universities, leisure and health clubs, parks and holiday centres, throughout retail and shopping centres and in the food and hospitality industry, including hotels, restaurants and more. Aside from the domestic side of things, Rotowash is also highly sought after among the manufacturing industry, providing the heavy duty work needed to clean assembly line floors, manufacturing sites and much more. Rotowash is a popular purchase for the pharmaceuticals, engineering, and electronics sectors. The transport and public sector makes up another significant portion of their expanding client base, with the machines being used to clean airports, service stations, trains, housing associations and even HM prisons.

If you would like to find out more information on Rotowash and their many machines, be sure to get in contact with the team using the number below, or alternatively please feel free to check out the website.

Julian Stone, Managing Director, Rotowash, accepts the Company of the Year Award from our journalist.

www.rotowash.com
alternatively please feel free to check out the website.

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