

INDUSTRY UPDATE

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Air pollutants as harmful as cigarette smoke

A study published in the Journal of the American Medical Association has found that long-term exposure to poor air quality can have the same damaging effect as smoking 20 cigarettes a day, with air pollution shown to be more dangerous than passive smoking.

Many employees are exposed to poor air quality on a regular basis and employers are often unaware of the risks and what they can do to manage them. A new generation of air quality monitoring equipment is now available for measuring the levels of common air pollutants in the immediate areas where staff are working.

Employees working close to areas of high road traffic, particularly

with poor air circulation, are especially vulnerable to the effects of pollution. As well as being trapped indoors or brought in through ventilation systems, pollutants can also build up in outdoor spaces, particularly in cities with high buildings, leading to exposure levels which may exceed limits set by the World Health Organisation (WHO).

Previously, air quality has been likened to passive smoking. The International Agency for Research on Cancer (IARC) determined in 2013 that air pollution is more dangerous than passive smoking, and was now the leading cause of cancer.

Teams responsible for protecting staff from exposure to hazards can now understand exposure in relevant locations

by installing compact air quality monitoring equipment designed to continuously measure pollution levels in ambient air.

AQMesh pods are small, wireless units which can be mounted on a lamp post, fencing, wall or a similar mounting point close to where staff are breathing potentially polluted air, both indoors and outdoors. Air quality readings are secure and confidential, accessed online by authorised personnel only.

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Air humidification in hospitals



Regulating air humidity is of fundamental importance for hospital facilities, as the health conditions of patients, correct functioning of medical equipment, well-being of doctors and visitors and healthcare spending are closely related to it.

The regulation of air humidity plays a fundamental role in a hospital environment,

first and foremost to safeguard patients from nosocomial infections. A correct level of relative humidity guarantees the good functioning of medical machinery, which is essential for hospital operations and avoiding dry air helps maintain an acceptable level of comfort for the well-being and performance of patients and medical staff. Managing humidity important in impeding the growth of bacterial colonies in

the building as, to develop, they need water and nutrients. It is therefore necessary to avoid the formation of areas where humidity condensates and forms stagnant water, for example in air conduits.

Hospital humidification systems usually humidify fresh air in the ducts rather than directly in the room but, aside from this, their main components are not dissimilar from those for other applications.

However, considering the importance of the processes carried out in these facilities, specific manufacturing measures must be taken to guarantee the hygiene and reliability of installation.

Humidification is an aspect more important than one would think for the operativeness of a hospital facility due to its great impact on the:

- ▼ development of pathogens and transmission of patient infections;
- ▼ protection of medical machinery against

electrostatic discharges;

- ▼ well-being and performance of patients and medical staff.

Humidification systems are compulsory in hospitals and the various components must be selected so as to be suitable for application needs regarding hygiene, reliability and connectivity. When possible, choose adiabatic or highperformance isothermal humidifiers as they combine humidification needs with the energy saving objectives to be reached in energy-consuming facilities such as hospitals.

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Moontown Ltd

Moontown Ltd is a Nottingham based manufacturer of spring energised, hydraulic and associated sealing products, using PTFE and other high performance plastics. Moontown is also a distributor of metal seals.

Established in 1996, the company has invested in NORSOK M-710 REV 2 and API 6A Annex F sour fluid immersion testing approvals, as well as being ISO 9001:2015 approved.

With many years of experience in solving sealing problems associated with a wide range of applications and industries, Moontown's technical and design support team can assist in the correct choice of seal design and material in applications involving extremes of temperature, pressure, hazardous or aggressive chemicals. Moontown also offers a complete production service, made up of the following areas:

- ▼ Bespoke seal design service
- ▼ In-house PTFE billet production
- ▼ Experienced CNC programmers

- ▼ Advanced on-site CNC machining
- ▼ In-house spring winding
- ▼ In-house EDM facilities for tool making

Moontown's capabilities range from 2mm rod seals to 2000mm piston seals, designed for either linear, rotary or flanged face seal applications. Effective sealing solutions can be achieved with PTFE spring energised and hydraulic seals for applications in chemical, oil and gas, automotive, food and pharmaceuticals as well as a wide range of general engineering fields. These are complimented by a wide range of metal O, C and E seals, including spring energised resilient metal seals.

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R+K Safety Guarding

Made using our plain faced ESP profile and utilising 30x30 or 40x40 woven mesh, the safety guarding system from R+K offers an attractive and modular system that is easy to install. Posts are mounted into Base clamps that can be easily bolted to the floor.



The R+K click & safe connection system not only makes panels easy to fix and remove from posts for access if necessary (with a simple tool) but also complies to EU Machinery Directive 2006/42/EC.

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MADE IN BRITAIN

New app continues the fight against counterfeiting



NSK, in co-operation with the WBA (World Bearing Association), has created a new app to help tackle the ongoing issue of fake bearings. In recent years the company been working closely with the

WBA, JBA (Japan Bearing Industry Association) and authorities around the globe to enforce law and order on counterfeiters, and eradicate bogus bearings from the market.

Building on the recent release of the 'NSK Verify' app, which allows customers to assess the authenticity of bearings by scanning a special 2D barcode found on the packaging, the latest app has been developed in partnership with other major bearing companies.

'WBA Bearing Authenticator: WBACheck' can assess the authenticity of bearings manufactured

by WBA member companies, again by scanning a 2D barcode. Such a rapid task makes it simple for customers who acquire bearings from multiple vendors to ensure originality. In addition, if an unregistered bearing is found, the app automatically notifies the NSK team.

Release of the app demonstrates that NSK is determined to continue its pursuit of these deceitful traders, ensuring that customers worldwide can keep purchasing and using NSK products with confidence.

The new WBACheck app can be downloaded from www.stopfakebearings.com

Real-time engine oil analysis



Gas engineer support specialist, Gen-C, will launch its latest oil condition monitoring sensors at Energy Now 2020 (East of England Arena, 3-4 March).

Providing a 24/7 real-time analysis of the quality of gas engine oil, the sensors detect any contamination including fuel, water or metal, and provide a snapshot of an engine's overall health.

James Thompson, MD of Gen-C says, "Our oil condition monitoring sensors can help operators plan scheduled maintenance at a time that coincides with an oil change, increasing uptime, and protecting the engine by detecting any contamination issues as soon as they occur."

As well as being available as a standalone product, the sensors now come as standard with all engine upgrades.

As UK distributor for Motortech, Gen-C can supply the full range of parts and systems for all major gas engines.

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HARDWARE WAREHOUSE

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

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Quantum's Innovative Drive Asset Management System nominated for Water Industry Awards Final

Water & Wastewater Treatment Magazine have shortlisted our unique Variable Speed Drive Asset Management System for Asset Optimisation Initiative of the Year category. This category recognises the ability to deliver clear improvements in asset management, whether by reducing costs or improving efficiency, our system does both.

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Ecocleen adopts advanced right to work checks solution

Ecocleen, leading commercial contract cleaning provider, has teamed up with uComply to streamline and simplify its Right to Work checks. The company will use the uAuthenticate mobile application across its nationwide network of franchises, so Regional Directors can immediately authenticate identity documents.



This will further enhance Ecocleen's robust staff onboarding processes by introducing real-time Right to Work checks that empower local users.

The uAuthenticate mobile application fully validates a wide range of identity documentation in a matter of seconds.

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Obsolete Cypress Dual Port and FIFO SRAM Product Lines



Rochester Electronics has been authorised by Cypress Semiconductor to sell units of the obsolete Dual Port and FIFO SRAM product lines. The Dual Port and FIFO product line have been discontinued by Cypress under PTN18051 notice dated 1/28/2018 with a last time ship date of 1/28/2019. Rochester has taken all residual excess inventory and has arranged for Cypress to manufacture or have manufactured 201 specific part numbers with immediate effect. This Rochester partnership allows continued product availability for both Cypress and Rochester customers.

Rochester Electronics has also received the associated product design, manufacturing and test information to allow Rochester, on a case by case basis, to provide long-term continued support of the Cypress Dual Port and FIFO SRAM product lines.

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Engineering the future

Industry Update is proud to announce that Ewellix has been selected as our Linear Motion Solutions Company of the Month. Established over 50 years ago as part of the SKF Group, Ewellix may now have a new name, but the high standards on which it was founded remain, pushing the boundaries of engineering to set standards across the industry.

With a UK office in Milton Keynes, Ewellix employs 1,200 people across the world, with sales operations in 15 areas and factories in multiple countries, making Ewellix a company with an astonishing worldwide reach.

As a leading manufacturer of linear motion and actuation solutions, Ewellix offers state-of-the-art products to offer the competitive advantage its customers are looking for. These products are designed to increase machine performance, maximise uptime, reduce maintenance, improve safety and save energy, supporting customers to implement the energy efficient solutions of tomorrow.

“One of our key advantages is the premium quality of our products, both in the steel material used and in the design. We perceive ourselves as a high-end manufacturer,” explained Gregor Caillon, Business Engineer.

Engineering solutions for industrial automation, medical equipment, mobile machinery, industrial distribution, to name a few, Ewellix is truly pushing the technological envelope to leverage new technology, using its manufacturing expertise to address its customers’ challenges.

“Our products are mainly used for automation applications. We’re also seeing increasing business

in collaborative robots, which help operators to do repetitive tasks, working with the human to make things easier.”

Indeed, in October last year, Ewellix launched new linear motion modules to transform the capabilities of collaborative robots, or cobots. The LIFTKIT and the SLIDEKIT both extend the reach and mobility of standard cobots, without the need for



expensive upgrades or complex accessories and programming. Supplied ready to install, both modules can be fully operational within 30 minutes.

As well as this, Ewellix offers a wide range of electromechanical linear actuators in a variety of designs and setups for both general and specific industrial applications. These range from high load capacities and fast operating speeds to systems designed for the quietest possible operation and aesthetic appeal.

Furthermore, thanks to Ewellix’s extensive experience

and knowledge of electromechanical solutions, it can offer the widest range of linear actuators, telescopic pillars, control units and operating devices to satisfy even the most demanding requirements.

With decades of experience in the manufacture of ball and roller screws, Ewellix can also offer customers precision screw solutions to meet their challenging applications, providing the highest levels of efficiency, precision, durability and value.

Moreover, Ewellix offers a vast range of high quality linear guides, which are essential for the productivity and economic success of an application. This range consists of ball-bearing sleeves and profiled linear guides with either ball or roller recirculation, with virtually unlimited axial movement. These solutions support nearly every industrial application, and can be offered with either integrated or customised linear guides.

Soon, Ewellix will be opening a new factory in Sofia, Bulgaria to further its continuous global expansion, as well as focusing on the ongoing development of



its products to ensure it is addressing its customers’ evolving needs. As part of its yearly event calendar, Ewellix is planning to attend Drive & Controls on 25th-27th January 2021 at the NEC, Birmingham, as well as a range of Universal Robots events across the UK and Ireland. If you would like to find out more information, head to the website or get in touch using the contact details below.

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www.ewellix.com/en/gb/



DataLase’s laser print technologies creates added-value for global brands

Industry Update is proud to announce that DataLase has been selected as our Specialist Printing Technology Company of the Month.

Established in 1987 as a spinout from Nottingham University, DataLase developed a series of patents around laser reactive colour change pigment technology. DataLase offers revolutionary inkless printing solutions for products and packaging, based on its patented laser reactive colour change pigment technology. Currently, this range includes pigments & coatings, coding & marking solutions, and the VARELase range. Each solution is made up of functional coatings, hardware and services. Printing can range from operational information, such as barcodes, date/lot numbers and shipping information, through to full marketing campaigns with intricate graphics and personalisation.

One of DataLase’s key products is its Case Coding Solution – an innovative, highly efficient and sustainable way to apply variable shipping information onto



corrugated boxes. “The solution removes single use plastics and non-recyclable materials from the supply chain by applying a laser activated coating directly onto corrugated boxes,” explained Laura Rickards, Marketing Manager. It can provide a 16.8% carbon emission reduction when compared with alternatives, as found in an independent report from Carbon Footprint Ltd.

“Some of our other solutions can also be used to promote sustainability and positively influence consumer behaviours by encouraging sustainability,” added Laura. “We can also offer a range of operational benefits, due to variable information being printed at the latest stage of the supply chain. This enables SKU rationalisation; language, flavour, dietary information, and shipping information can all be printed onto generically designed packaging. Lasers are also incredibly reliable, meaning a reduction in both scheduled and unscheduled downtime.”

After being acquired by SATO in 2017, the

company was able to significantly increase its R&D activity, leading to innovative solutions that combine hardware and coatings, which are then optimised to work together to deliver unique outputs based around the core of DataLase’s technology – laser reactive colour change pigments.

The acquisition also helped give DataLase global leverage to reach a greater customer base, and the company now has distribution operations in Spain and South Africa, with further expansion on the horizon.



“We’ve got a lot of exciting things happening in the next few months,” Laura said. “There will be some new products launching later this year, as we continue to develop laser reactive solutions for products and packaging, expanding our reach and portfolio globally while supporting brands and their supply chain.”

As part of its annual event calendar, DataLase recently attended Packaging Innovations in Birmingham. “It was



our first time at this show and we found it extremely interesting and beneficial. We’ve still got trade shows planned for the rest of the year, including SuperCorr Expo in Orlando on 13–17 September.”

If you would like to find out more about DataLase, visit www.datalase.com or contact them using the contact details below.

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Travtec Limited

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

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Our systems can be integrated with various other proprietary solutions, including Thermal Inkjet, Continuous Inkjet, Laser and Thermal transfer for marking. Print & Apply and other labelling

systems and are used in many major companies around the world. We also offer a range of tamper evident Labelling machines from our Tampino range. From a small low-cost desktop unit, right through to a fully automatic high-speed labelling system with several other solutions in between.

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Parkers Food Machinery Plus



Parkers Food Machinery Plus a family run business is based in Bognor Regis, selling its products and services across the nation. Suppling sundries, machinery and parts, as well as offering service and repairs, the company works with butchers, restaurants, caterers, hotels and food the sector.

We boast a broad knowledge of the products in our portfolio, which are all of the highest quality and we are the sole importer of the majority of the items in our catalogue. We also add a personal touch to our services, offering face to face meetings to ensure customers get what they need" said Barry Parker, Director. Indeed Parkers Food Machinery Plus is committed to providing excellent service and ongoing after care, with dedicated support team to help with any enquiries.

Specialising in the supply and distribution of quality new and pre owned food processing machinery, Parkers Food Machinery Plus is of the UK's largest importers for Tepro Vacuum Packers, Manconi and Deko Slicers and

Ishida & Epelsa Weighing scales – printers and names like Robot Coupe, Dadaux and Swedlinghaus meat processing Machinery. The company also offers a competitive range of food packaging, ingredients and sundries for butchers, delicatessens and kitchens including sausage casings, herbs & spices and butchers twine.

A few months ago Parkers signed a partnership arrangement with DB Foods a major Meat wholesaler in the UK to resell all of our products on our behalf around the UK. This allows our products to reach 3500 shops around the country every week, meaning we can be truly nationwide working with DB Foods and our other distributors We feel customers are looking for that one stop shop for all there equipment and sundries needs, and that's what we are looking to become.

Parkers Food Machinery have opened an additional ware to cope with the extra demand, as well as having a new large showroom.

"We're seeing continued growth every year ; our web site is developing and web sales are up, our product holding are constantly increasing, and we are offing multiple routes to market to ensure everyone can get the products they need Barry concluded."

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Simply practical solutions from FATH Components

Industry Update is proud to announce that FATH Components has been selected as our Engineering Components Company of the Month.

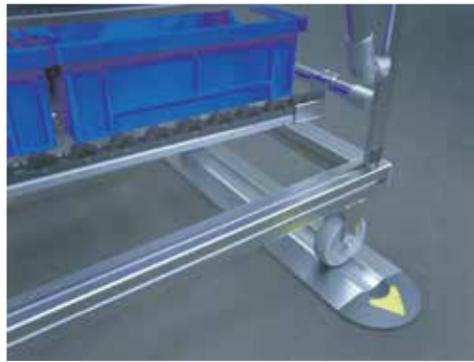
Established as a family operation in Germany in 1989, FATH Components has evolved significantly over the years, opening subsidiaries across Europe, China and the USA. In 2010, FATH Components' UK subsidiary was set up by David Hayes in Aldershot, Hampshire.

FATH is a manufacturer of machine components made from plastic and metal, acting as a flexible, efficient and reliable partner from product conception to construction, tooling and production, through to logistics. "We predominantly manufacture components based around aluminium extrusion and automation," explained David.



"We offer highly versatile solutions, mirroring and manufacturing products for a range of different profiles, rather than just one brand of system. We are also highly innovative, and our design team based in Germany is consistently developing new and ground-breaking products. Last but not least, we offer a friendly service and are easy to deal with, helping to make things go as smoothly as possible."

One of FATH's recent innovations is its range of precision engineered swivel castors with integrated lifting feet. These provide effortless movement and safe, positive positioning once in place, and were launched at



February's Southern Manufacturing Show earlier this year.

The range includes 12 models, offering individual castor/feet units that are rated to carry loads from 1–250kg each. Each model offers full 360° rotation and a positive lock-in-place lifting foot to ensure secure positioning. The foot pedal, which is used to deploy the feet that 'lock' moveable units into place, is geared at 1:20 meaning a 200kg load can be lifted with just 10kg of effort. This is a unique feature of the innovative range,



lending the units special appeal for end users.

"For users wishing to move heavy units on the shop floor, or in an assembly area, warehouse or office, these new lifting foot swivel castors offer safety, security, significantly enhanced operational flexibility and durability," said David.

Another of FATH's developments is its innovative parking rails, which are found on busy factory floors across Europe. These are floor-mounted tracks designed



to provide reliable, fuss-free and precise parking for the dollies and wagons which feed JIT production line personnel. Keeping them equipped with the necessary components for installation or assembly, these durable tracks can be installed in seconds: simply position, bond, and use. One European application has seen an astonishing 25km of these rails laid in a single production plant.

In line with FATH's vision for ongoing development, the company has just started operations in Brazil, with plans to establish a built office space there in the near future.



FATH is also beginning to operate in Mexico and plans to expand into India in the coming years. "We're focusing on global expansion and want to have wholly owned subsidiaries in all of the countries we supply into," explained David.

Without a doubt, over the last 30 years, FATH has built an enviable reputation based on a foundation of expertise, innovation, and outstanding customer service, and looks set to continue these achievements as it continues its worldwide growth.

If you would like to find out more information on everything FATH Components has to offer, head to the website or get in touch using the contact details below.

T 01252 346610
www.fath24.com



Work Instruction & Training Software Company of the Month

Say goodbye to manual training matrices

In this issue of Industry Update, we have selected Starling Solutions as our Work Instruction & Training Software Company of the Month.

A leading software provider for the manufacturing industry, Starling Solutions provides a platform called Streamliner which has been developed for companies to create easy to use work instructions and manage training. "The platform drives efficiency and continual improvement in a company's processes. It uses a very simple step by step format and enables companies to use videos which are a brilliant training tool. Videos are quick to make, much more engaging than text or photos and reduce barriers with a multi-lingual work force," said Sam Briggs, Managing Director.

Established by Sam Briggs in 2016, Starling Solutions was created after a revelation in his previous manufacturing work. "I previously worked in manufacturing where we had paper-based work instructions. While working there, we identified various problems with these and sought a digital solution." Sam continued, "After not finding anything that met our needs we set about developing it. This is how Starling came to be, we have grown out of manufacturing to serve manufacturing."



Streamliner is a platform used for creating and sharing live work instructions in an accessible, user-friendly way and has been created specifically for work instructions and training. Streamliner is extremely customisable and adaptable for use in a wide variety of industries including: food, pharmaceutical, automotive, aerospace, packaging, electronics, energy and cabling.

"We couldn't find any other system that would give us the opportunity to integrate training requirements and training gaps with documents." Client commenting on Starling Solutions case study video. By using Streamliner, companies benefit from an



integrated training system. Training is built into the system, taking away the need to maintain a manual training matrix in a spreadsheet. This in turn enables managers to be able to quickly spot training gaps and plan production using live training data.

"The single biggest benefit that our competitors don't offer is the integration of training. Other work instruction platforms or document management systems don't integrate training with the documents." Sam continued, "Streamliner automates a lot of the manual tasks associated with spreadsheet-based training matrices. When a document is updated the training is automatically updated for the relevant individuals, who are then made aware of the changes."

Another great aspect of the platform is it saves companies money and reduces the risk of non-compliance. "One of our customers estimated they would see a Return on Investment of 360% in the first year, then 512% in following years. That was just on time saved; it didn't include savings from quality improvements and reduced risk."

In terms of recent appearances for the company, Starling Solutions most recently attended the Smart Factory Expo in Liverpool. Sam told us that, "It was a great opportunity to generate new leads and see some existing customers. We met quite a few people that are actively looking for electronic work instruction platforms like ours, manufacturers are increasingly realising the benefits of going paperless."

Speaking of the company's future plans, Starling



Solutions is continuing to develop its software and is looking to increase data capture/process audit functionality, to remove what is often another manual process done in spreadsheets or on paper.

For any further information, please see the details below or head to the website to find out more about the company.

Contact
T 01858 322302
www.starlingsolutions.co.uk

Deep-Hole drilling automation is more than part load/unload



Automation inside deep-hole drilling machines can be more valuable than part handling outside of them. For deep-hole drilling, part-handling might be the most visible automation element, but it's not necessarily the most impactful. Often, it's internal process automation that yields the most significant results even with a manually loaded drilling machine.

When it comes to automating deep-hole drilling, there are challenges unique to the process itself. These include fixturing complexities — where maintaining alignment requires elements such as guide bushings and tool supports not present in a conventional lathe or milling machine — and part attributes such as length and weight.

Long parts mean a long drilling cycle time, and maintaining production rates often requires multi-spindle, deep-hole drilling systems. Unfortunately, stopping a two- or four-spindle machine means two or four spindles sit idle until the parts are loaded and unloaded. So, in these instances, the more parts in the machine at one time, the more automation can actually inhibit cycle time while the machine is running.



Solving this problem in multi-spindle machines requires internal automation to achieve the objectives of lean manufacturing and one-piece flow. In-machine loaders singulate processes so that even within a small four-piece batch you maintain one-piece flow. The operator or automation device puts in a part and takes a part out, and the machine does a bit of manoeuvring inside to sequence those four parts in such a way as to minimize spindle downtime while maintaining upstream and downstream processes for one-piece flow. For instance, parts could be loaded onto a smart conveyor, indexed, and lifted into chucks for the drilling cycle before robotic unloading on the out-feed side so that there are no bottlenecks to a steady production flow.

Tool life management is another form of internal automation. Getting feedback to the machine enables the deep-hole drilling process to adapt or halt, if necessary, before tools and parts are damaged.

Tool life management is built into a machine's



control, and the machine senses torque thrust and coolant. Chip condition is usually the first indicator of wear, which would otherwise require an operator present to detect, so the machine actually monitors the process and can predict tools starting to wear and identify when they need to be changed. A tool life management system also can count distances drilled and the number of cycles, then prompt a tool change at the appropriate time.

That kind of in-machine automation smooths

the path for external automation. As the process builds, highly standardized options for robot-ready machines such as an automatic door, workpiece-present sensors and programmable workpiece fixturing makes it easier to add a robot at a later date.

These robot-ready machines also create efficiencies before they're fully automated. Even with manual loading, the automatic doors and programmable clamping make the process more efficient.

In UNISIG's experience, an embedded reamer tool changer enables manufacturers to manage significant throughput increases, even with an operator. With this technology, operators can maintain the pace of production loading the machine, while eliminating the task of inserting reaming tools for each cycle. This allows the operator to redirect efforts towards tasks such as additional quality checks and off-machine setups.

Contact
www.unisig.com

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Hub of information, resources and support for the Adhesives and Sealants Industry

In this issue of Industry Update, we are proud to announce that we have selected BASA as our Trade Association of the Month.

With a plethora of history dating back to its inception in 1983, BASA has excelled in its mission to become an umbrella organisation for UK and Ireland adhesive and sealant manufacturers. "In 1983 BASA was set up to collect limited statistics relating to adhesives & sealants, but kept it confidential to members. The main emphasis was and continues to be on technical and legislative matters and on promoting awareness of the industry and technology." Lorna Williams, Executive Office and Secretary General.

BASA (The British Adhesives & Sealants Association) was formed in November 1983 from the merging of British Adhesives manufacturers Association and the Sealant Manufacturers Conference. Created with the aim to support its members by promoting and representing the industry; BASA provides guidance on technical and compliance issues and creates a



platform for networking opportunities for members to support each other with their services.

BASA is the voice of the adhesives and sealants industry's and is an information source for manufacturers and suppliers. BASA is now Europe's only independent National trade body which is solely dedicated to the interests of the adhesives and sealants industry. The association advocates on behalf of its members and liaises with Government



regarding legislation and keeps Members well informed of UK, EU and International proposals and initiatives.

Maintaining a growing portfolio of members, BASA members are UK manufacturers of adhesives, sealants and other construction products, and the related supply chain, such as raw material suppliers, equipment suppliers, test houses, other service suppliers. "We also have interaction with



government, other trade bodies, NGO's, and potential users of products, although we are set up for members not to provide guidance to users." Lorna stated.

With the growing concerns around the environment and using sustainable products and raw materials, BASA is dedicated to helping reduce toxic chemical usage and educate the public on the industry's drive for safer products with less solvent. "Our member's products have been developed to minimise resource use, enable light weighting, add to durability and safety of products, and strive to formulate on the safest possible chemistry, minimising waste and water usage." Lorna continued, "Our members have worked hard to minimise the use of more hazardous chemicals and to ensure that they develop safe to use products. We have particularly focussed on reducing non-essential solvent use."

In terms of future plans, BASA is continuing to strengthen its growing portfolio of members and



hopes to reach more potential members. A particular focus for the company, BASA is currently looking at ways to support its member through Brexit and help them to navigate potential new legislations.

Lorna told us that, "The key target this year is to help members navigate EU exit, and advise how they can comply with EU regulations after the end of the implementation period, and additional things they will need to consider such as tariffs, rules of origin, regulations etc. In particular we will be very active in the Chemical related UK new regulation, which may or may not duplicate EU regulation, but even duplication will require 'double' registration/compliance."

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

Contact
T 0330 223 3290
www.basa.uk.com

Bülte Plastics builds upon its 60 years of expertise

Industry Update is proud to announce that Bülte Plastics has been chosen to receive our Plastic Hardware Company of the Year award. "It's great to have received this award, and it acknowledges all the hard work we put in every day," said Alexandra Prost, Marketing and Communications.

Established in Germany in 1956 by Norbert Bülte, who was later joined by his son Stefan, Bülte Plastics soon decided to export its German manufactured products to France, opening a site there in 1986. Over the years, the company consistently diversified its product range, opening a further site in the UK in 1999 to better serve its expanding customer base.

Thanks to over 60 years of experience, Bülte Plastics is well-placed to offer expert advice and support to its customers, a service which is underpinned by a dedication to addressing the needs of the marketplace. "We launch around eight new products every year, adapting to the market and responding to customer requests. If something is missing, we want to fill that gap," explained Alexandra.

"The last 12 months have been great for us. We've seen a good turnover, and we've continued the amazing success we saw in 2018. This year, we're

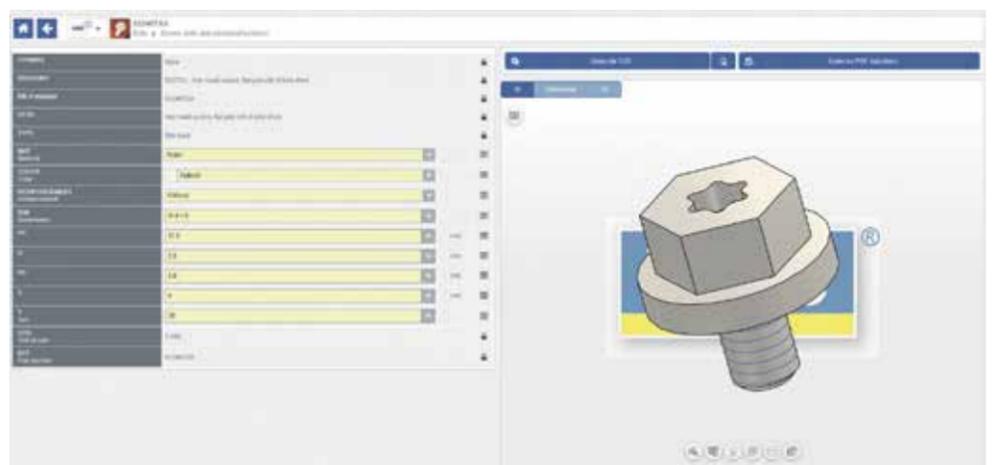


launching self-adhesive screw covers, for hiding screws on furniture so they don't affect its visual appeal. We'll also be launching a new shape of plugs, which will be released at the end of March this year."



Specialising in the design and manufacture of plastic protection parts and fasteners, Bülte Plastics boasts a catalogue containing over 30,000 products, including washers, spacers, nuts, and screws, to name a few. These are ideal for a similarly wide range of industries, including military, medical and aerospace. All washers, screws and nuts are compliant and meet specific standards for DIN, ISO and NFE, and can be adapted to suit the size and colour preferences of each customer.

This extensive range of products is available in a large choice of materials, including ABS, PA6, PA6.6, PP, PE, PVDF, POM, PC, and PTFE. Bülte Plastics also integrates the REACH and RoHS requirements and guidelines in its



manufacturing and procurement processes.

The company now also has a 3D catalogue on its website, where customers can view some of Bülte Plastics' product range in 3D. There is a small logo on the product page to indicate this, and it means customers can see the product from every angle to make sure it's exactly what they need.

As well as this eclectic product range, Bülte Plastics also offers bespoke services, with the ability to make custom-made products based on drawings in order to suit individual needs.

Indeed, Bülte Plastics is dedicated to helping its customers in any way possible, and ensures everything is in German, French and English in order to ease communication both within the group and with its customers. "Our staff members are always learning new languages to ensure we can

communicate effectively across Europe," explained Alexandra.

"Because we're a small company, we can build close relationships with our customers and work with them to ensure they receive the best solution. If they make a request on the website, a team member will contact them and establish a direct relationship. The customer will then have the same point of contact throughout the entire process, supporting them from development to implementation."

Currently, Bülte Plastics works with numerous distributors, but in the coming years it is working to establish more links with end customers as well as this existing distribution network. If you would like to find out more information on everything Bülte Plastics can offer, get in touch using the contact details below.

T 02392 449606
sales@bulteplastics.co.uk
www.bulte.com

MACH Exhibition



MACH has been rescheduled to 2021 with a new dates from the 25th – 28th January. Taking place in the NEC, Birmingham, MACH will be the event to connect the world of manufacturing technologies and be the destination of choice for companies looking to adopt and invest in the digital revolution.

MACH is a fantastic event for both exhibitors and visitors. Showcasing live, digital production systems in one space, under one roof, hundreds of millions of pounds worth of

business is discussed, secured and completed at the event.

Attracting 25,000 visitors and in excess of 600 exhibitors, MACH is the platform to connect UK manufacturing engineers, decision makers, buyers and suppliers with suppliers of new technology, equipment, services and processes.

MACH is owned and organised by The Manufacturing Technologies Association (MTA), the voice for the manufacturing technologies industry, committed to driving innovation, creating value and helping UK manufacturing to thrive.

MACH is the UK's biggest event for inspiring, innovating and connecting manufacturing.

Despite the show being pushed back to a later date, Industry Update would still like to highlight some of the potential exhibitors and industry leaders in manufacturing. Further details can be found on this page and the next page.

www.machexhibition.com

Leading supplier of machinery for the fabricating and sheet metal industry



AFM Europe is a supplier of machine tools for the fabricating and sheet metal industry. Established in 1975, the company has expanded significantly since its inception and following the move to a purpose built facility has become the largest supplier of fabricating and sheet metal equipment for the North East of England and one of the largest in the UK.

Sourcing top quality machinery, AFM Europe supplies a large range of machinery and is the sole distributor for Ermaksan Machinery. Demonstrating a strong understanding and expertise of its machinery, AFM Europe is able to provide advice on the right machine for the customer and ensures it look after its customers from initial enquiry to after sales services.

The company complements its machinery with a whole host of supportive service. Providing excellent levels of customer service, the team of engineers at AFM Europe are fully trained and well equipped to assist with support of every machine sold by AFM Europe.

For any further information, please see the details below.

T 01670 735434
www.afmeurope.co.uk

Showcasing the world's first glasses-free 3D-view microscope

The rise of 3D technology in the manufacturing sector has revolutionised both quality control procedures and new product development. That said, this technology can have constraints, including the need to wear restrictive VR headsets, poor resolution, or issues around using this technology to communicate and collaborate across multiple sites.

Fortunately, Vision Engineering, leading manufacturer of high quality ergonomic visual inspection and measurement technologies, has created DRV-Z1, the world's first the world's first high definition digital stereoscopic 3D-viewer with a magnifying zoom module. This cutting-edge digital technology enables the user to view high definition 3D images under magnification without requiring operators to wear goggles or specialist glasses. In layman's terms, users see a 'floating' 3D image comfortably and without the use of specialist eyewear.

The applications for this new technology are extensive – DRV-Z1's stereoscopic view enables real depth perception which is useful in a range of elements in the manufacturing process. An example would be improved hand-eye coordination when reworking small components such as circuit boards.



What's more, DRV-Z1 facilitates network connectivity, meaning the 3D HD image seen on one DRV-Z1 can be shared in real time with another DRV unit elsewhere in the world. Essentially, this means experts all over the world can collaborate in real time in multiple ways – including, reviewing scans using depth of vision to aid diagnosis or viewing complex components, assessing that they are fit for purpose. DRV-Z1 will be available to test for yourself at MACH 2020 in April, where it is being showcased for the first time.

Contact
www.visioneng.com

Find the machine tool/sheet metal machinery you need with Zebra Worldwide Machinery

Zebra Worldwide Machinery Ltd is here to help you increase your manufacturing capacity or increase your service offering in house. With extensive experience and a varied selection of new and used machinery in stock, Zebra Worldwide Machinery is guaranteed to meet your requirements, whatever they may be.

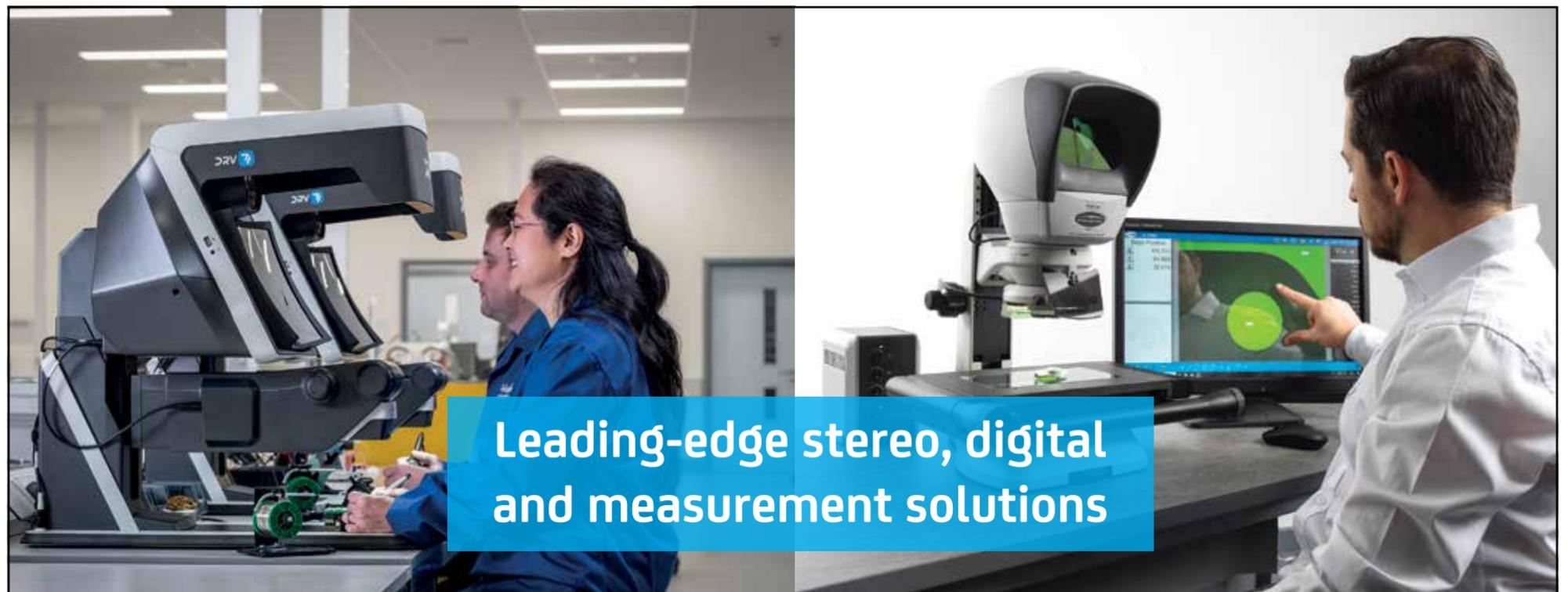
Whether its laser cutting, CNC bending, press braking, rolling, shearing, punching, machining, pressing or non CNC plug and play machines, Zebra Worldwide Machinery has the engineers and leading capabilities to install and service the machines onsite, as well as the ability to help with training and tooling.

As a leading UK dealer of both new and used machine tools and sheet metal machinery, Zebra Worldwide Machinery's extensive range is available in stock with finance options also available. What's more, if you can't find the machine you're looking for on the website, Zebra Worldwide Machinery will find it for you.



Zebra Worldwide Machinery will be on stand 6-869 at MACH 2020 on 20–24 April at the NEC, Birmingham, so be sure to pay them a visit and discover what they have to offer.

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We supply machines from WFL Millturn

Technologies for high value complex components in exotic materials, Weiler MDI lathes, Hemburg supplying Micron turning Machines, Willemin-Macodel supply high precision Millturn lathes for high speed 3 - 5 axis machining of small high precision components and Mitsui Seiki supplying 5 axis vertical and horizontal high precision machine lathes.

Kyal as a business is designed to supply machinery for complex component manufacturing. We are all about high value technical solutions to enable economic production of complex parts. Our team at Kyal have seven staff and

is very well supported by each of the individual machine tool suppliers to ensure we provide exceptional levels of service and support. By combining our in-house expertise with the support and technical excellence provided by our suppliers and their machine tools.

We provide turnkey solutions to create innovative manufacturing solutions reducing cycle-times and operations which ultimately produce improved quality and reduced production costs.

T 01858 467182
simon@kylmachinetools.co.uk
www.kylmachinetools.co.uk

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2. Business Process Improvement – Improving the supporting office processes through process mapping and organisational alignment
3. The Green Factory – Combining Lean thinking with reducing the environmental impact of your factory

Our Director Neil Trivedi is speaking at the Mach conference on Tuesday at 1245-1315 in the main seminar theatre 6-871 on the subject of The Green Factory. Come along if you want to hear a

first-hand account of how to make your factory green.

Great systems and processes are key to success in business and by reviewing these we help businesses to achieve greater efficiencies with resultant profit and cash flow benefits. We do this through our tried and tested coaching and training programmes.

Our approach is to provide an initial diagnostic review, at our cost, to understand the business issues and discuss how we might help.

We are on stand 17-150 in the education zone, come and see us for an informal discussion on business improvement.

www.theperfectprocess.co.uk



Kelch brings comprehensive Industry 4.0 connection solutions to MACH 2021

Tool measurement data can be transferred to CNC machines in a variety of ways; all will be on display at MACH 2021 and all remove the risk of human error.

Whether it's the EASY Post, the Kelch QR Tool ID System or DNC network data transfer, Kelch have a solution to suit your requirements; reducing scrap, increasing productivity and profitability, with the Kelch presetter at the heart of your manufacturing processes.

Connection can go beyond linking the presetter to the machine. Kelch's partnership with TDM Systems opens the possibilities for connectivity between the planning and manufacturing sides of your business. This means your CAD / CAM / ERP / MES systems have seamless integration with your manufacturing departments, providing a drastic improvement in communication throughout the business, with all departments working from the same information.

Along with our TDM demo station, we will also be showcasing our industry leading V6 and V3 tool presetters, i-tec shrink machine, RoWi2 taper cleaner, and our hugely



popular spindle pull back force measuring system – Safecontrol 4.0.

The Kelch UK team of experienced specialists can deliver these cost effective solutions to streamline your production processes and improve your business.

Contact
T 01604 583800
www.kelch.co.uk

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your operation in the process. With Exact Business Software everything is tied together, everything is automated, everything is under control.

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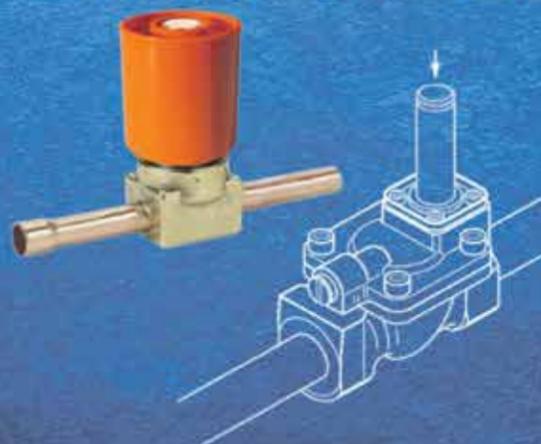
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Dairy-Tech 2020

Dairy-Tech is a dairy event tailored for the new generation of dairy farmer, manager and technician. Dairy-Tech 2020 took place on Wednesday 5th February at Stoneleigh Park in Kenilworth.

Its first ever event in February showcased ground-breaking technology; inspired uptake of the latest science and field-based skills, introduced a fresh range of innovative products and services and pioneered new global concepts in management efficiency.

Due to the transformation in the dairy industry over recent years it is becoming increasingly apparent that farmers need to be competitive, and irrespective of their system type and market they supply, they need to match both to their available resources and milk contract.

Regardless of their cost base, future successful dairy businesses must be informed, resilient, proactive and efficient; Dairy-Tech provides this platform, alongside a recognition that dairy farming has become a professional industry.



Dairy-Tech will be returning next year on the 3rd February 2021. This is our pick of the best exhibitors from this year's show, listed here in alphabetical order: AB Vista, Calf Igloo, Catax, Daisy Vending, Direct Dairy, Eko Hoofcare, Milkrite InterPlus, Neogen, Spreadwise and Wolfenden Concrete. Further details can be found on this page and the next page.

<https://dairy-tech.uk/>

Neogen® - Setting a new standard in dairy hygiene

Neogen® develops, manufactures and markets a diverse range of solutions dedicated to food and animal safety, offering solutions from farm to fork. Neogen's range of products and services for the dairy industry are designed to address important issues customers face around regulations, health & safety and cow health; including reduction of antibiotic use. Neogen presents a unique offering through its ability to meet requirements across the dairy operation with its extensive portfolio of solutions from genomic testing to hygiene products.

Chemists at Neogen have carefully selected an intelligent blend of unique chemistries, developing teat dips and sprays for before and after milking. This premium range of teat care products is designed for gentle, yet highly effective teat cleaning and disinfection, whilst maintaining optimal teat condition.

The hoof care range by Neogen offers total hoof protection and includes hoof blocks, adhesive, bandages and Hoofshield, a powerful hoof bathing disinfectant. Hoofshield is a powerful formalin-free blend of biocides and hoof conditioners for safe cleaning and disinfection of hooves. Hoofshield also has a unique colour indicator to make it easy for



farmers to identify cows that have been through the bath.

To ensure the highest level of hygiene in milking parlours and milk bulk tanks, Neogen's cleaners and disinfectants for the dairy industry include circulatory cleaners and DEFRA approved disinfectants for cluster flushing and hard surface disinfection.

The Neogen team is dedicated to offering quality services and products, supported with independent testing and excellent customer service. The company endeavours to supply products and services with fast and flexible lead times and continually invests in bringing new products and technologies to its customers around the world.

T 01706 344797
www.neogen.com

Specialists in tax relief

Research and Development Tax Credits enables businesses who are developing new processes or products to retain more of their profits within their business to help fund further development. However, very few AgriTech or farming businesses are making the most of this source of funding, often because they don't think their work qualifies.

You may be surprised at what work does qualify for this tax relief and even "Failed" projects can be included in your claim. Do contact us for an initial discussion about your business to determine whether you too can claim a cheque back from HMRC.

are one of the largest specialist tax relief businesses in the UK with over 12 years of experience, 14 000 clients and the average tax saving for our R&D clients is £59 000 so you can be assured that your claim will be in experienced hands to maximise your claim. The initial review of your business is free of charge so do call us on 07901 852950.

Contact
www.catax.com



Catax (www.catax.com)

Direct Cow-to-Package Milk

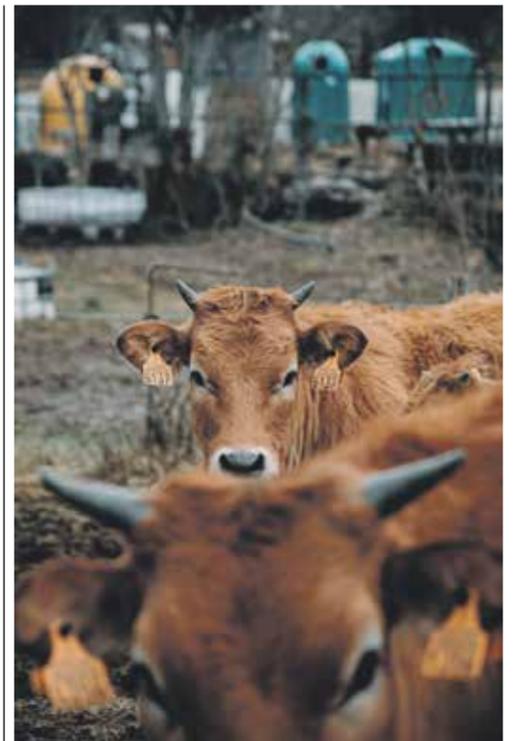
Modern consumers appreciate fresh, natural and local products with a known origin. But industrial dairies mix milk from dozens of farms and thousands of cows. As a result, industrial milk becomes a faceless commodity. On top of it, most dairy farmers sell their milk at prices that do not even cover their production costs. While only 37 percent of all British farms earn in this process, less than one percent of UK milk is processed at farms.

A Dutch startup has solved this problem by erasing industrial dairies from the equation. Its fully-automatic solutions turn farms' focus from raw milk to high-value packaged milk ready for consumption in 15 minutes after milking.

DirectDairy™ system for individual milk integrates milking robots with milk pasteurization, filling and sorting in a 24/7 process. Each interactive pack is traceable to specific milking of a specific animal with a full profile of the cow and the farm visible on the screen of your smartphone. DirectFlow™ plug-and-play solution for mixed milk integrates processing, filling and sorting with group milking systems or collection tanks.

Both systems have optional features to produce other liquid products like kefir or drinking yogurt.

Details at www.directdairy.nl



Agricultural solutions from Wolfenden Concrete – supplier of choice for forward-thinking dairy farms across the UK

For Dairy Tech 2020, Wolfenden presented their innovative SUPA range of concrete solutions for the dairy industry: designed to deliver huge productivity and efficiency benefits for farmers whilst prioritising animal welfare to give happier, healthier cows.

From state-of-the-art dairy research centres to farm improvement projects, agricultural specialists Wolfenden work to improve efficiency, productivity and cow health through better slurry management. Wolfenden's SUPA range includes three innovative, award-winning products: SupaStrong diagonal slats, SupaDeep slurry channelling and SupaWide slurry channels.

SupaStrong slats allow slurry to pass through rapidly and comparisons show them to be 100% stronger than competitor offerings, while a



class-leading 12 tonne axle load can support just about any type of farm vehicle or machinery.

With 50% extra capacity, SupaDeep slurry channelling provides superior slurry collection, meaning cleaner floors and more comfortable cattle

housing – for the same cost as competitor products. Beveled corners offer extra strength and hygiene and a smooth internal surface improves flow rate.

Compared to traditional methods of slurry channel construction, the SupaWide solution cuts out work and can save as much as 75% of labour time.

Wolfenden are at the forefront of agricultural product development, helping farms meet and exceed forthcoming legislative requirements for slurry management, advising customers on best practice from the initial design stage through to project completion.

For more information contact us:

T 01282 844213
info@wolfendenconcreteltd.co.uk

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AB Vista

AB Vista was delighted to exhibit at Dairy Tech 2020 to showcase a selection of our products and services to help customers optimise the rumen.

AB Vista Ruminant products:

- ▼ **Vistacell:** Highly concentrated live yeast
- ▼ **Acidbuf:** Unique market leading rumen conditioner to prevent SARA
- ▼ **Ultrasorb:** Mycotoxin deactivator, transforms and remediates mycotoxins
- ▼ **Vista Pre-T:** Unique forage pre-treatment designed to increase digestibility of fibre
- ▼ **Nitroshure:** Encapsulated urea supplement for a slow release nitrogen source
- ▼ **Reashure:** Rumen protected choline for use during transition phase
- ▼ **Aminosure XM:** Rumen protected methionine

As well as market leading products, AB Vista also provides a range of services for its ruminant customers including NIR4Farm, portable NIR forage analysis on farm to determine the nutrient profile.

To find out more, contact your local AB Vista representative on +44 (0)28 9447 3478 or alternatively email at GBIreland@abvista.com.



High quality UK milk vending machines

Daisy Vending is a leading manufacturer of technically advanced milk vending machines. Designed, developed and built in the UK, Daisy Vending is highly equipped in producing top quality milk vending machines and as a UK manufacture that creates its machines from sheet material, Daisy Vending can also provide custom built machines to fit customer's requirements.

In terms of its range of products, Daisy Vending provides: milk vending machines, milk dispensers, bottle vending machines, vending machine shelters, glass bottles, glass bottle printing, continuous flow pasteurizers 500L-5000L ph, batch pasteurizers 60L-500L and milk skimmers.

A noteworthy machine for the company, Daisy Vending's DV2001/2 is a top quality machine and is perfect for selling milk directly from the farm. The DV2001/2 is supplied in one

200L tank or two 100L tanks. By having two tanks, the DV2001/2 enables users with the ability to sell two milk types within one machine.

Efficient, innovative and easy to use, the DV2001/2 is extremely adaptable and as it has two tanks; both tanks can hold the same milk therefore if one tank runs out, the machine will move straight onto the next tank, thus reducing the time needed in-between refills.

For any further information, please see the details below.

Contact
T 0146 645 5555
www.daisyvending.com



Expert in slurry handling equipment



Since 1991, Spreadwise has been manufacturing and supplying slurry handling equipment and is one of the founding members of the British Dairy Consortium.

Spreadwise designs and manufactures high quality slurry handling equipment to help with numerous slurry and waste problems across the UK and Ireland.

Building on the success of its highly successful umbilical slurry pumping system for agriculture, utilities and industry, Spreadwise has now developed an extensive range of slurry handling equipment to deal with a wider variety of requirements. This includes hose reelers, both front and rear mounted, dribble bars, spreaders, separators and slurry pumping systems.

Thanks to Spreadwise's dedicated and experienced staff and large dealer network, the company can offer a full backup service for all products and installations. What's more, its technician's vans are fully equipped and mobile for repairs and maintenance both on and off site.

Without a doubt, Spreadwise is ready for any challenge the industry poses, and is committed to achieving the high standards its customers require, meeting their changing needs and complying with the relative technical and safety standards.

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

T 01270 623566
sales@spreadwise.com
parts@spreadwise.com
info@spreadwise.com
www.spreadwise.com



Calf Igloo

Calf Igloo is based in north Herefordshire selling both calf housing and feeding equipment. Joff and Emma themselves are also calf rearers and sell the products they use within their system. They were the first to use the H&L Igloo in the UK and from there were given the opportunity to start selling H&L products.

The Igloo is 14m² fiberglass dome designed to house a maximum of 15 calves coupled with a small sheltered loafing area. The igloo provides a well-ventilated, draft free area, allowing the calf to choose the environment it wants to be in. This loafing area could be either a shed or another one of Calf Igloos products the Veranda, a mobile shed offering the flexibility that some farmers require.

Calf Igloo also sells other products, the Twinhutch with the Flexy fence, allowing space for two calves with the ease and manoeuvrability



offered by the flexi fence. They also offer the Feedfence a locking yokes system with teated or standard buckets if required.

Emma says "Please feel free to contact us to discuss our products and how they could make your calf rearing more manageable or to arrange a visit to see our setup"

www.calfigloo.com



milkrite InterPuls
Improving every farm we touch

A MARKET LEADING MILKING POINT SPECIALIST

Leading the way with our innovative Impulse Air Technology

With our Impulse Air, you are guaranteed:

- Improved teat health
- An optimised milking performance
- Ultimate cow comfort
- Calibrated airflow guarantees consistent & excellent milking
- Patented design
- Reduced operator stress through lower weight

Impulse Air is available through our quick and easy Cluster Exchange Services! Impulse Air can fit all parlours and claw types!

For more information on Impulse Air or our cluster rental scheme contact our UK sales manager Tim Culliford at: 07775648197 or email sales@milkrite-interpuls.com

www.milkrite-interpuls.com



EKO HOOF CARE

Eko Hoofcare was established in 2009, the company is led by a hoof trimmer and provides a wide range of trimming services.

We are a one stop shop for all your hoofcare needs, we offer a wide range of services including hoofcare training courses, as well as crush and product sales.

We supply farmers and hoof trimmers alike with high quality products at competitive prices. We offer next day delivery on all our products and our team are always on hand for sales and technical support.

Eko Hoofcare are currently distributors of Ten Napel hoof trimming chutes as well as Rosensteiner rollover chutes for the UK, as well as our own brand Ekochute hooftrimming chutes; one of the leading farmer hoof trimming crushes on the market.

This year at Dairy Tech 2020, we launched the Eko Foot Bath range which boasts two types of footbathing systems that are highly adaptable to any farm set up.

Today, Eko Hoofcare is a rapidly growing company with worldwide affiliations. From trimming, to products, to upright or rollover crushes new and used, as well as footbaths, consultation and training, our team are only a phonecall away.



www.ekohoofcare.com (UK) +44 (0) 784587 66 33
info@ekohoofcare.com (IRL) +353 (0)86 362 7146
☎ (Office) +353 87 090 0360

EKO Hoofcare

Eko Hoofcare are distributors of one of the leading farmer crushes on the market, our own brand Ekochute.



Ekochute is a highly customisable machine which can be adapted to suit individual trimmers needs.

Standard features include

- ▼ Automatic locking head gate
- ▼ Ergonomic front leg lifters
- ▼ Back bar with W bar for extra support and safety
- ▼ Automatic braking winches
- ▼ Double belly band system
- ▼ Fully galvanized/zinc plated finish

Ekochute customers can avail of our Ekochute Custom option of adding electric motors for back leg, belly bands, back bar and front feet, you can add as many as you wish!

With over 10 optional extras, and a range from fully manual to fully electric, we have an Ekochute to suit your needs!

See www.ekohoofcare.com for more information on our Ekochute range.

UK's Leading Exhibit for the Chemical Industries

CHEMUK is the UK's only trade show dedicated to the UK's chemicals, biochemical, chemicals processing and chemical product formulation industries.

CHEMUK 2020 – Supply Chain Expo and Speaker Programme is taking place across two days, on the 16th & 17th September at EventCity in Manchester and is free to

attend, with additional free parking.

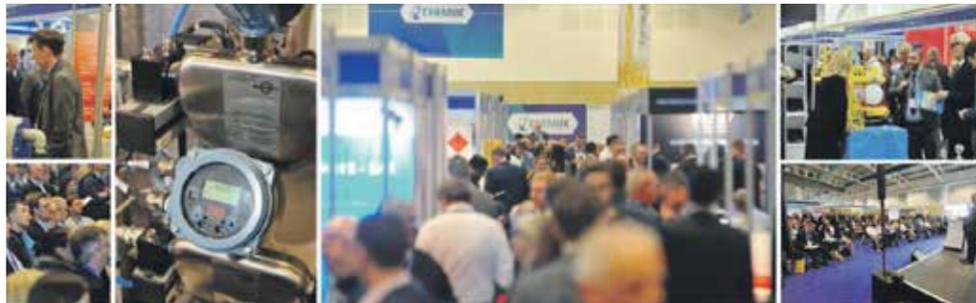
Welcoming over 2,500 specialist businesses from the UK's chemical industry, CHEMUK brings everyone together under one roof and showcases the latest innovations in the chemical industry including equipment and apparatus, raw materials, chemicals, intermediates and consumables, sub-contracting and business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

A new feature for CHEM2020, the expo will increase the exhibits space and speaker

programme coverage, relating to Specialty Chemicals, Ingredients & Raw Materials supply chain & sourcing.

Despite the change in date, Industry Update would still like to highlight some exhibiting companies. Further details can be found below.

www.chemicalukexpo.com



Sierra Instruments

ChemUK 2020, Sierra Instruments are designers and manufacturers of flow instrumentation for gas, liquid and steam applications.

Engineers will be available to explain the functionality of the various instruments on display, aided by "working" Air and Water test stands, installed with the following: -

- ▼ Thermal mass flow meters – inline and insertion, offering unrivalled accuracy and a lifetime warranty on our no-drift flow sensors
- ▼ Vortex flow meters – Inline and insertion, providing flow, temperature & pressure outputs for a range of gas, liquid, and steam applications

- ▼ Ultrasonic flow meters - fixed or portable versions available
- ▼ Scientific mass flow meters and controllers, providing full-scale reading flows from as low as 4 sccm to 1500 slpm of Air

Flow Measurement & Control:
www.sierrainstruments.com

Automotive Test Systems:
www.sierra-cp.com



Moeschle UK Limited – Perfection in Stainless Steel

Moeschle
Vessel design & manufacture

Moeschle's strong commitment to the highest levels of professionalism and innovation make us one of the leading suppliers of stainless steel tanks and containers in Europe. This makes us an ideal partner for the Chemicals Industry, where we understand how stringent safety requirements make high quality manufacturing, attention to detail and quality control absolutely paramount.

In particular we are aware of the social and environmental responsibilities involved in the storing of industrial products, and believe that stainless steel is the ideal material for the construction of tanks for this

purpose. We take pride in every project, whether large or small, and offer professional advice to ensure the optimum design is achieved for each vessel or system.

We can offer:

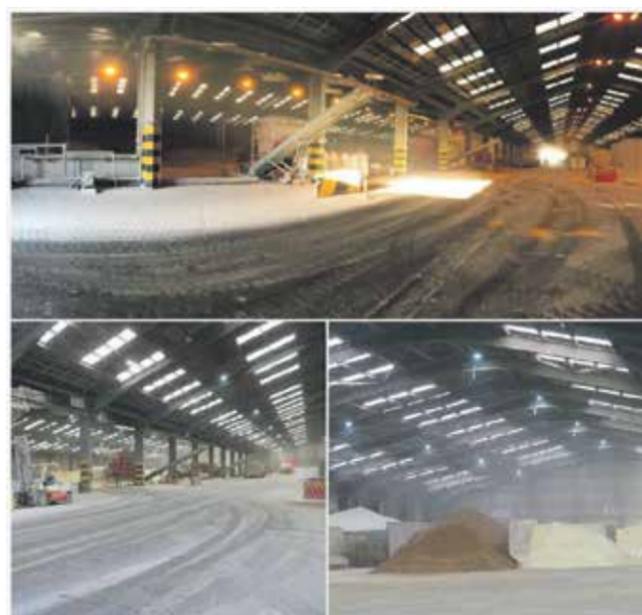
- ▼ Storage tanks
- ▼ PED-compliant vessels
- ▼ Agitation or mixer systems
- ▼ Internal heat transfer coils
- ▼ External heat transfer jackets
- ▼ Insulated tanks
- ▼ Vessel top access systems
- ▼ On-site assembly of vessels up to 1 million litres.

We look forward to discussing your particular requirements at ChemUK 2020. Find us at stand K18.

Contact
T 01142 434463

Health & Safety Update

Compliance and energy efficiency in one solution



For businesses involved in the storage of dry bulk goods, such as animal feeds, the requirement for regulatory compliance is essential – energy savings can often be seen as a bonus.

Imagine combining these two elements into one bespoke solution. That is what Bristol Port achieved when converting one of their Avonmouth warehouses to a dry bulk storage facility.

G Shed is a dedicated animal feed warehouse offering storage, blending and milling of animal feeds and grains. The operations within the shed required a wholesale upgrade to hazardous area fittings, including provision of emergency

lighting. The project also enabled the existing HPS floodlighting to be replaced with high efficiency hazardous area lighting through the LED Industrial Lighting Co. Ltd.

The ATEX LED lighting solution

The key objectives were to find suitable low maintenance ATEX light fixtures which would improve the quality of the lighting, were reliable, durable, and could achieve energy savings.

The Dialight SafeSite product range was able to match these criteria, having a long track record in the aggressive marine environment. The solution was a combination of ATEX High Bay for the main operating areas and Dialight's LED Stainless Steel Linear for the emergency requirement.

The rewiring of the building to comply with hazardous area regulations, facilitated the opportunity to reposition the high bay lights to improve uniformity and lux levels around the

main milling and blending machinery. The drab orange light from the old fittings has been replaced with a clean white light enabling the personnel to operate in greater safety and enhanced colour definition of the bulk feeds.

The switch to LED has multiple benefits for Bristol Port, including halving the energy consumption for the shed, CO2 savings, zero maintenance, and a return on investment of under four years.

With a 10-year warranty and rated product life of 150,000 hours, this solution eliminates maintenance and significantly improves efficiency and safety in a challenging and volatile environment.

Call us on 01242 250633 or email info@ledindustriallighting.co.uk for a bespoke solution to your lighting project.

See you next year on 25-26 November

EMEX

The UK provider of products for Hazardous Environments



In this issue of Industry Update, we are proud to announce that we have selected Exloc as our Hazardous Area Solutions Company of the Year.

The company was established in August 2012 by Andrew Tither, in cooperation with Exloc instruments Inc. in North America. Exloc was created from a desire to provide one convenient source for instruments, electronic devices and other products specifically designed and approved for use in hazardous classified locations involving flammable gas and dust atmospheres.

Exloc offers an extensive range of ATEX approved instrumentation and mobility products for the oil and gas, chemical, and pharmaceutical industries. "We import products and distribute them for the UK market. We sell ATEX approved instrumentation

and mobility products to the oil & gas industry. The products we import are certified products which are safe to use in explosive environments." said Andrew Tither.

Based in the North of England, Exloc operates throughout the UK and Ireland, and has a business portfolio consisting of ATEX approved Mobility and Communication Solutions and Intrinsically Safe Interfacing products.

"We have a wide selection of niche products to help with various requirements across the industry," explained Andrew. "I started the business because I



wanted to work in a smaller company that has the flexibility to address a vast range of needs and offer a more personal service than bigger organisations. We can take risks and do things that other companies won't, and we bend over backwards to resolve our customers' issues. We work with people in the most convenient way for them, whether that's using a different currency or offering them no minimum order quantities; we're all about moving obstacles for customers and developing long-term relationships."

One of the main focuses for the company is providing the best level of customer service. Listening and responding to the needs of the market, Exloc is devoted to providing innovative solutions to meet the needs of its customers. "We are a forward thinking, customer service focused, dynamic company and we have a friendly team who are able to assist on any inquires and resolve any issues quickly." Andrew continued, "We hold good stocks, offer competitive pricing and exceptional customer service."

A notable product for the company is the IS910.1 tablet for use in ATEX zones 1/21. Robust and powerful, the tablet offers copious benefits and technical advantages including 8.400 mAh Battery, 2 GHz octa-core processor, NFC, Android 8.0 etc.

In terms of the company's future plans, Andrew told us that, "We plan to move into rugged products and to expand our sales presence across the whole UK. We want to push further into the market and provide



a suite of solutions to help us continue to grow organically."

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

T 01457 239301
www.exloc.co.uk

Industrial Laser Company of the Month

The perfect laser for any application

Industry Update is proud to announce that Z-LASER has been selected as our Industrial Laser Company of the Month.

Founded in 1985 by Kurt-Michael Zimmermann, Z-LASER is based in Freiburg, Germany with additional offices in Italy and Canada. Since its establishment, Z-LASER has been developing and producing high-precision industrial lasers for a wide variety of applications. These include homogenous line lasers for displaying cutting and sawing lines, positioning lasers for perfect alignment and positioning of objects, lasers for image processing with optimal characteristics for illuminating objects in front of cameras, and high-end laser projectors. All laser systems are planned, developed and manufactured in Germany and are subject to the highest quality tests.

Indeed, Z-LASER offers the complete toolbox to ensure they can build the perfect laser for every

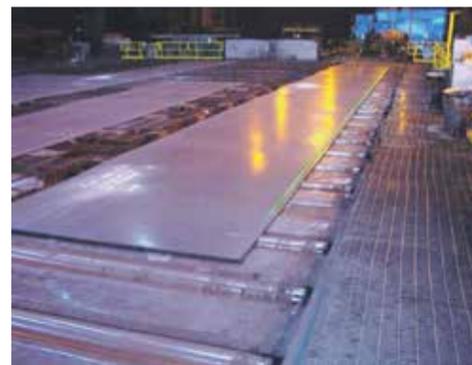


application. The company can offer bespoke solutions and OEM lasers have been part of the company's services for decades; there is no doubt you will find the optimal laser for any application when you choose Z-LASER.

These industrial lasers are available in a vast range of versions and variations. All you must do is select

the desired parameters in the product finder, such as line laser, cross laser, and laser projector, or even wavelength and output power, and the product finder will filter the catalogue to match your requirements, finding the perfect laser for your application.

Working with customers across the world, Z-LASER has over 60 partner companies globally to help guarantee a perfect service wherever its customers are, and its products can be found in nearly



every industry. This is no doubt in part due to the company's dedication to constant development and its creative approach. "We are strongly driven by innovation," said Marcel Rottler, Head of Marketing. "More than 30% of our staff is working in our research and development department, something which is reflected by our slogan 'Bright Ideas'."

In 2018, Z-LASER welcomed Dr Hans Ebinger as the company's new CEO. This year, the company is developing a range of new products, which is looking to set a class of its own in the field of positioning lasers.



Dr. Hans Ebinger, CEO of Z-LASER

Z-LASER attends a number of trade shows each year, and will be exhibiting at JEC 2020, Paris on 3-5 March, microTEC Südwest, Freiburg on 18-19 March, Stone+Tec 2020, Nürnberg on 17-20 June, and Euroblech 2020, Hannover on 27-30 October. "These are great for us to get in contact with old friends and new customers," said Marcel.

If you would like to find out more information on everything Z-LASER has to offer, and how they can help build the perfect laser for your application, head to the website or get in touch using the contact details below.

T +49 761 296 44-44
info@z-laser.de



The future of condition valve monitoring

By Imtex Controls

All industrial operations are continually driving to improve efficiency and productivity to increase profit margins and maximise bottom-line returns. In many sectors (such as the oil and gas industry), this drive occurs against a back drop of heightened health and safety demands and environmental concerns as well as the need to implement improvements on old assets that can often be operating beyond their initial design life.

An important means of delivering on these expectations is to reduce the number of unscheduled plant shutdowns. On average 92% of shutdowns are unplanned and cost oil and gas companies an estimated \$42-88 million a year in worst case scenarios. It has been observed that most unplanned shutdowns are often attributable to worn out equipment, and in a lot of cases is due to the lifespan of an element being exceeded.

With a routine maintenance schedule and a condition monitoring solution, operators could prevent costly shutdowns and increase production up time, reduce maintenance spend and improve plant safety. A study by GE found that data monitoring helped improve oil and gas maintenance schedules resulting in a 36% reduction in unplanned downtime, which in turn resulted in an average of a \$17 million improvement to the bottom line. As such, asset monitoring, asset management, and predictive maintenance solutions are gaining popularity.

Condition monitoring on valves

As valves are a critical constituent element of any flow-based process, valve performance is an important factor to review when trying to prevent unscheduled maintenance, plant shut downs and loss of batch production.

The immediate effect of valve problems can then be the failure to meet client expectations while indirect effects may include higher insurance premiums and increased



HSE scrutiny, meaning that, valve problems can often be very costly. While some operators are already deploying condition monitoring on control valves and critical valves, many valves, notably those used for on/off process and shutdown applications, are often left unmonitored.

Why aren't valves being monitored?

While technology is available to monitor these valves, operators are dissuaded from this investment primarily due to the prohibitive hardware and installations costs.

Although some OEMs have touted various valve testing and monitoring systems, many of the solutions offered can pose operational, financial and/or functional implementation issues. This is because they are generally significantly more costly than traditional systems; can require installation of new wiring and hardware and can have software integration. Where the automation is of relatively low value, as is the case with on/off valves, it can be difficult to justify the time and money involved with implementing a useful condition monitoring solution.

If and when condition monitoring systems are installed on automated on/off valves, they typically require trained personnel to perform the monitoring task. However, due to a lack of training, lack of specific valve knowledge and insufficient time available, data will often only be analysed for a small fraction of automated on/off valves, if at all.

The result of all these factors is that, in the



current environment, vast swathes of on/off valves are not being monitored and subsequently maintained in a meaningful or useful way, contributing to a significant increased risk of valve failures.

Introducing the Valve Diagnostic Monitoring System Imtex Controls has been developing and manufacturing solutions for the process industries for over 30 years. As part of this history, Imtex has been supplying valve monitoring and testing solutions that are easily implemented to both new and ageing assets, to enable operators to log data from shut down valves for a number of years. However, it became obvious that while operators are keen to explore condition monitoring solutions, investment in this area has been limited due to the lack of a simple, cost-effective solution that allows for automated end-to-end data acquisition and analysis.

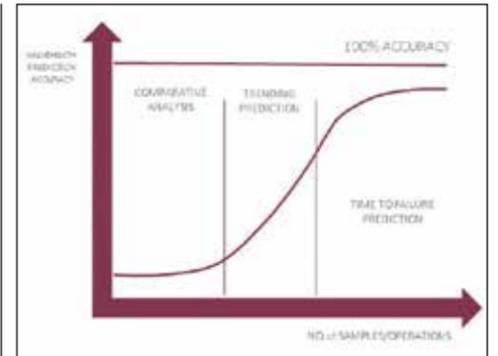


Following experience in data capturing for critical valves, a NEW automated valve diagnostic monitoring system (VDMS) has been developed to resolve all the implementation

and investment issues. By providing seamless monitoring of automated valves using a simple but fully integrated, end to end solution, the system helps to deliver a safe and more productive plant of the future.

The component parts of the VDMS system allow this type of system to be installed without any extra cabling, no additional software, and no change in procedures, all for a similar cost to a standard valve position transmitter. This makes VDMS the first of its kind.

The difference between the VDMS and other technology available is that it is easy to install in both green field and brown field environments with minimal additional infrastructure requirements, but allows every valve operation to be automatically captured, analysed and acted upon if necessary through a Cloud-based diagnostics application.

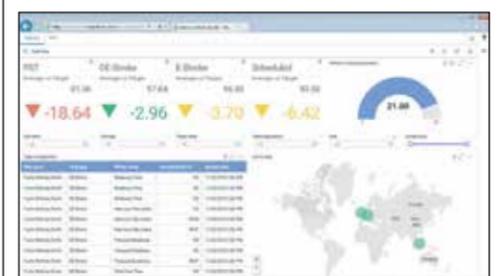


The system monitors the health of automated valves through comparative and real time analysis of every valve operation with the goal of predicting time to valve failure. Maintenance and pro-active interventions can then be scheduled in advance of any issues. By cost effectively installing this technology on all automated valves, a plant can ensure efficiency of production, as well as prevent unscheduled delay and unsafe plant condition.

This technology is useful for all stages of plant operation and so can provide an opportunity to improve efficiency, safety and security of all plants, existing and future.

With big data now being recognised as the future of industrial and manufacturing processes, it's innovations like the VDMS that can make all the difference to data aggregation for safety, efficiency and not least profitability.

T 08700 340002
info@imtex-controls.com



Pioneering 24/7 IIoT Valve Health Monitoring



To find out more about the future of Valve Health Technology and increase your production efficiency
Call us on 08700 340 002 or visit our website: www.imtex-controls.com

