Siemon’s new Value Vertical Cable Manager System

Siemon, a leading global network infrastructure specialist, has expanded its family of cost-effective open rack and cable management solutions with the new Value Vertical Cable Manager (VVC) system. The Value Vertical Cable Manager system has been specifically developed to integrate with Siemon’s 2-Post Value Rack, 19-inch Rack-Mount Horizontal Cable Managers and pathway support accessories to provide an equipment mounting and cable management solution that simplifies both the deployment and long-term management of critical network cabling infrastructures. Easily assembled in as little as five minutes, the new 45U vertical managers mount directly to Siemon’s 2-Post Value Rack as well as other Siemon-racking options, providing a cable management system that can be deployed rapidly. Available in widths of 4 inch (10cm), 6 inch (15cm), 10 inch (25cm) and 12 inch (30cm), the VVCs are offered in both single and double-sided versions to enable a broad range of infrastructure topologies, simultaneously supporting cost management for high-density patching fields, efficiently routing horizontal cables, mounting PDUs, and routing equipment power cords.

For more details on Siemon’s new Value Vertical Cable Manager, including a brief overview video, bill-of-material generator, spec sheets, and instructions, visit: https://ecatalog.siemon.com/#/en/Racks-and-Cable-Mgmt/Cable-Management/Value-Vertical-Cable-Managers

To learn more about Siemon’s full line of Value Rack and Cable Management solutions, visit: https://ecatalog.siemon.com/#/en/Racks-and-Cable-Mgmt

Adhesives & glue guns

AdCo UK is one of the largest manufactures of shaped hotmelt adhesives and water-based adhesives for use in packaging and product assembly markets for over 21 years, from its Head Office and manufacturing facility in Liphook Hampshire with additional distribution facilities based in Leeds UK and a network of approved distributors based throughout the UK.

As well as supplying adhesives for all requirements, AdCo supplies a wide range of specialist applicators — from ProFlex industrial, heavy duty and professional glue guns to total melt, cartridge and bulk systems, we also manufacture and supply PU resins, PVA Adhesives, PU Adhesives, Tapes and much more.

As part of our commitment to offer our customers the correct solution for their needs AdCo are continually investing in research and development along with new state of the art manufacturing equipment to ensure we continue to meet the ever changing needs of all types of industry.

Thanks to our unrivalled knowledge of adhesives and application techniques, our highly skilled technicians can offer a ‘find and supply’ service to all our customers. With a combined industry experience of over 120 years, our technicians can ensure that any bonding problem can be solved quickly and efficiently.

Tel: 01428 751755 enquiries@adco.co.uk www.adco.co.uk

Siemon’s new Value Vertical Cable Manager System

Siemon’s new Value Vertical Cable Manager System

Adhesives & glue guns

Adhesives & glue guns

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Adhesives & glue guns
Foremost introduces systems from TEKNOKOL

Foremost Electronics, the engineering-led Essex based importer and specialist distributor of electromechanical components, announces a new distribution partnership with TEKNOKOL. Based in Turkey, TEKNOKOL is a manufacturer and supplier to world-leading integrators of control panels.

The Teknokol family of products support machine manufacturers in providing ergonomic machine control panels. TEKNOKOL products are designed to enhance the Human Machine Interface (HMI) experience. The panels are designed to incorporate support/suspension arm components and include industry standard VESA mounts for monitors and separate panels to incorporate keyboards. All TEKNOKOL enclosures are modular and configurable suiting a wide range of applications.

Two enclosure series are available from TEKNOKOL: ECO line and TKP for light and heavy duty service respectively. The internal depth of the enclosure can be selected to suit a particular application, with deeper versions available known as the X90 Solution featuring hinged access.

Standard features include IP65 protection, anodised aluminium colour, RAL 7035 corner couplings, and RAL 7016 corner covers. TEKNOKOL can provide custom-coloured couplings and covers upon request, as well as machining for LCD screens, buttons, switches, etc.

TEKNOKOL Support Arms (Suspended) provide the articulated connection between the ECO/TKP enclosure to the host machine. A comprehensive choice of parts is available to build a support arm for 40 – 60 – 120kg loading. Assembly benefits from being modular.

Coupling towers provide a solution for installations where the panel or support arm cannot be directly attached to the host machine. The towers are hollow providing a secure conduit to contain peripherals such as cables, sockets, etc. The Towers are supplied with a floor mounting base. Available in heights of 2.0, 2.5, or 3.0m with profiles of 150x150 or 200×200mm.

T +44 (0)1371 811171
sales@4most.co.uk
www.4most.co.uk

North Ridge Pumps helps a distillery

A distillery contacted us which wanted to bulk transfer Methanol at 95% concentration, liquor and gin from IBCs into a bulk holding tank.

They required a flow rate of 100-120L/min at 6M Head, for the unit to be food grade, self-priming, ATEX rated and mobile. This would be a tall order for some companies but for North Ridge Pumps, configuring a pump kit for users’ requirements is something we are accustomed to.

Mobile pump kits provide a versatile solution, ensuring portability across processes with multiple liquids with ease and without spillage.

We selected our GR-ADPE ATEX RATED side Channel Pump in stainless steel, trolley mounted with 5M of Anti-static Conductive Food grade suction and delivery hose with tri clamp fittings, ensuring high levels of hygiene, and ease of cleaning all delivered in under 3 weeks.

The unit was coupled to a 230V 0.76Kw motor, enabling the kit to be used throughout the factory without modification to existing electrical circuits.

A side channel pump was chosen due to its self-priming ability, meaning it could be surface mounted, handle low viscosity fluids, and, being of metal construction, be ATEX rated.

T +44 (0)1773 302660
sales@northridgepumps.com
www.northridgepumps.com
Hand dryers do not spread COVID

Back in May, the government issued its COVID-Secure guidelines to help businesses get back to work safely. This included details around signage and training, as well as cleaning and hygiene facilities.

A very clear message contained within these guidelines was that businesses must ensure sufficient hand washing and drying facilities are in place, recommending either paper towels or a warm air dryer as safe solutions.

In a bid to get things moving again, organisations clamoured to stock up on supplies and make decisions on whether to install paper towels or hand dryers based on ease, economics, personal preference, and sometimes, sadly, misconceptions based on the old paper towel versus hand dryer debate.

COVID-19 has brought with it speculation, scare mongering and rumours that hand dryers are unsafe to use, somehow spreading or harbouring germs, which have time-and-time again been quashed by reputable organisations such as the World Health Organisation, the Centres for Disease Control & Prevention and numerous international universities – who all deem hand dryers as safe as – or in some cases, particularly with some scientists like Dr. Pritam Jagansing Pardeshi, which can, in the majority of instances, be traced back to the respective public domain in recent years around hand drying methods which range from ‘Paper towels harbour bacteria’ to ‘Review of the electric hand dryer’ – which can, in the majority of instances, be traced back to the respective paper towel and electrical hand dryer industries.

However, the independent findings of Dr Pritam Jagansing Pardeshi, whose extensive 2018 study ‘A Comparison of Effect of Three Hand Drying Methods on Washed Hands’ for The Global Journal For Research Analysis, concludes that ‘Warm air hand dryers, of the type used in this study, are a hygienic method of drying hands and therefore appropriate for use in the healthcare (industry). Both warm air dryers and paper towels gave acceptable and comparable results.’

The Centres for Disease Control & Prevention (CDC), WHO and scientists at Johns Hopkins University and the College of Public Health at University of Arizona have all categorically confirmed in the USA press, as recently as September 2020, that hand dryers do not spread coronavirus. In fact, several in-depth, independent studies not conducted or funded by the paper towel or hand dryer industries over the last 30 years have shown that there is no significant difference in the hygiene between paper towel use and hand dryers.

Neither is a harmful method of drying, yet it doesn’t follow logic that paper towels can be considered a more sterile and hygienic choice over hand dryers. Paper towels and their dispensers are not made in sterile areas, they live in the same washrooms as hand dryers and are subject to the same levels of cross contaminations.

That said, truly independent and credible scientific studies conducted over the years prove that the most important aspect of hand hygiene is, and remains to be, thorough hand washing and drying with your preferred or available method.

North 0114 354 0047
South 0203 327 0448
www.intelligenthanddryers.com

What is the Ecoray® System and how can it help with infection control during COVID-19?

The Ecoray® system is a totally autonomous addition to the range of Grande Brio Scrubber Dryers and Willmop Vertical Scrubber Dryers from TSM Italy - brought to the UK market in an exclusive partnership with Hooper Services Ltd in Portsmouth, Hampshire.

Using UV Technology to destroy micro-organisms on a cellular level, the Ecoray system can destroy up to 97% of bacteria, mould or viruses without the use of a chemical.

The system sits at the back of the machine after the squeegee and turns on automatically when the machine is in use, so there is no need for any training or maintenance.

There are many benefits to using the system in, for example, schools, offices, hospitals, doctors’ surgeries, and various other industries. The system doesn’t produce ozone, it can reduce odours and pollutants contaminating the floor which would subsequently reduce symptoms of allergies, asthma and other diseases.

The system has been independently tested by one of Italy’s top oncology institutes, the CRO National Cancer Institute near Venice, which has shown that in the areas tested just using water, one with public access and another with restricted access, have a significant reduction of between 96.5% and 100% of micro-organisms in the points tested.

As the testing at the CRO suggests, maintenance of floor areas can be completed in just one pass with the Ecoray system mounted, saving time, money, chemicals and maintaining infection control standards.

According to the Evening Standard, Transport for London (TfL) are trialling a similar type of UV Technology on the London Tube network.

In a statement released on 10th July, TfL said, “The device, which could help supplement TfL’s extensive anti-viral cleaning regime, is connected to the escalator handrail and uses its motion to power a UV bulb that breaks down surface contamination to sanitise the handrail.” TfL is now assessing the benefits of the technology, which could be installed more widely in the future.

T 02392 630 276 sales@hooperservices.co.uk www.hooperservices.co.uk www.facebook.com/hooperservices ltd www.twitter.com/hooperservices www.linkedin.com/ hooper-services
In the drilling industry there are many techniques and equipment that have been used over the years to conduct drilling operations, but one of the more exciting and innovative pieces of equipment has been the sonic drilling rig.

**What is sonic drilling?**

Sonic drilling is a more efficient method of drilling by using high-frequency resonance to create a smoother path of travel for the drill by reducing or even eliminating any frictional resistance from subsurface materials being encountered. The high-frequency resonance results in a vibrating head that is being both pushed up and down by the mechanism, rotated via the drill string and vibrating because of the high-frequency resonance, creating a powerful force to displace subsurface materials and to reach the operator’s objective.

Because of this incredible design, the core samples that are produced as a result of sonic drilling are far superior to samples provided by other drilling methods. An undisturbed, quality, sample is possible due to an innovative advanced casing system that can capture the sample and maintain its integrity with as little as 1% deviation as opposed to other comparative methods such as a standard rotary drilling rig. When the sonic head is active and drilling through the subsurface materials, it liquidifies any loose soil and can reduce any rock or harder material to a fine dust, meaning there is up to 80% less waste compared with a standard rotary drill as the waste can be confined to the original hole and later returned to its original state.

How does sonic drilling work? A sonic drilling rig is unique in contrast to a standard rotary drill due to the sonic head at the helm of the rig. Within this sonic head are two rotating counterweights that produce a large amount of vibratory force, which becomes the resonance energy needed for the sonic drill to penetrate subsurface materials. The energy from the two counterweights is projected vertically down the drill string which causes it to rotate within the head. This resonance energy is evenly distributed to the sonic head, creating the sonic drilling effect that allows more efficient and effective drilling. To maintain the integrity of the sample, a casing is advanced over the core barrel, closing off the sample and protecting it as the core barrel can then be retracted and the sample received with little mess and excellent quality.

**Uses of sonic drilling technologies**

There are many applications for sonic drilling technologies, one of the primary use cases being for geological site investigations. Due to the low waste- and high-quality yield of a sonic drilling rig, it is the ideal solution for any environmentally sensitive project to reduce any impact on the environment due to a geotechnical investigation.

On an ecologically sensitive site, the efficiency of a sonic drill cannot be flawed due to its on average 400% quicker yield time compared with a sonic drill, allowing for a short drilling session to reduce impact on the surrounding area. In the construction environment, a sonic drill can be an incredibly powerful piece of equipment on projects such as bridges and dams to ensure the structural integrity of such important structures. By using the advanced casing system, once the investigation is complete the integrity of the site is still maintained as the casing remains as a placeholder to prevent any collapses of the subsurface structures. It is even possible for the sonic drill to penetrate traditionally tough materials such as limestone and dolomite, which usually pose a threat to standard rotary drills due to their geological qualities.

**Versatility of sonic drilling**

Being flexible is something that is required when conducting site investigations as the situation can always be challenging, which is why sonic drilling rigs can be adapted to fit different circumstances. A number of rigs can be fitted with caterpillar tracks, allowing them to be moved into position by an operator without the need for more heavy vehicles to pollute the site. There are also smaller sonic drilling rigs that can be interchanged depending on site conditions, which can all be planned with a preliminary site inspection to ensure the right tools are being used to deliver the best results possible. Because sonic drilling can be done without fluid or air, it is often used for things such as earthen embankments where it is not possible to use traditional methods, giving it a wider range of uses outside of the commercial industry.

When the sonic drilling equipment has been laid out on site and prepared for use, the core barrel penetrates first with the sonic head attached to begin drilling into the subsurface material. Once you’ve reached the desired depth to retrieve a sample, the casing can then be inserted over the core barrel to capture the sample. It is best to complete this dry without the use of water to displace any materials so as to preserve the material as best as possible and prevent any contamination of the sample with the mistake of groundwater being present.

Upon retrieving the core sample, it can be extracted from the sonic drilling rig to be placed in a dry and secure container for any geological examination that may be required by surveys. If the circumstances require that just a borehole is needed, the samples can be extracted through the core barrel and disposed of appropriately with minimal waste, and the casing advanced over the core barrel can be left for the borehole installation. If challenged with harder materials such as bedrock, sonic drilling can still penetrate these harder materials with excellent efficiency compared to the more traditional methods, making it a truly more effective and worthwhile technology to deploy.

John Rodgman is Managing Director of Borehole Solutions.

www.boreholesolutions.co.uk
Extending the service life of electronic systems – without compromising quality or risk

Industrial Customers typically need guaranteed longevity when it comes to service support for their Systems. The electronic components at the heart of many of these Systems, present a unique challenge because their life-cycles are normally much shorter than the Systems they control. Whether it’s major infrastructure controls for Power Distribution, Drives, Motor, or Process Controls, Customers regularly need 15+ years of guaranteed service from their suppliers.

In addition to longevity of supply, there are some other unique supply needs that any Repair & Service organisation requires:
- Instant availability
- The widest range of components
- Small irregular quantities
- Guarantee of industrial/extended temperature grade performance
- Guaranteed no pre-use or reworked products
- ‘New’ performance of replacement parts
- Risk-free confidence

Historically, as components are discontinued, System suppliers purchase their forecast lifetime needs. Storage costs and the lead-up capital commitments are significant. Really extended storage times, under normal warehouse conditions, also brings with it the certainty that component quality and final yields will deteriorate. This liability and risk have to be carried by the system supplier and a ‘factor’ added on top of the last-time-buy forecast.

When ultimately, demand exceeds the life-time stock, tough decisions have to be taken: prematurely stop in-service supply, or attempt an expensive re-design and re-qualification. Neither option will improve Customer satisfaction and could well unnecessarily open-up the Supplier’s installation to new competition.

Faced with these stark choices, it is not surprising that some System manufacturers attempt to source discontinued components through non-authorised/broke-grey market channels because perhaps they assume that there is no alternative. The increased risks associated with re-used, re-marked, and counterfeit components, as well as components which have simply been poorly stored and handled, are inestimable. But they are wrong!

Most semiconductor companies now have an Authorised distribution partner to help support both active critical shortages, when supply is tight, and long-term needs after discontinuation. Authorisation provides Customers with an assurance against poor quality, uncertainty, or counterfeit. No extra testing extra is required. Components are sold with a full warranty, and are 100% guaranteed to be HW/SW identical.

The Authorised supply of discontinued components built by the Original Chip Manufacturer (OCM) can provide a medium-term solution for most industrial customers. However, for core critical semiconductors, where really long-term support needs to be guaranteed or future market demand is uncertain, the safest and most economical solution is: wafer storage and schedule long-term production.

Known-Good-Die stored in nitrogen cabinets has an almost unlimited storage life. Storage costs are significantly less than finished semiconductors; and if combined with scheduled ongoing final packaging and test, it means that new components are available throughout even the longest of service commitments.

With careful planning at the last-time-buy stage, an Authorised long-term manufacturing partner can secure known-good-die, the original test IP, and the rights for long term production. Even FAQs remain the same!

Examples of Rochester Electronics long-term manufacturing from wafer extending the life of industrial systems:
- Elevator company — PDP IBM MLC build from wafer — 5 year production extension to existing design — service extension TBA
- Process company — Infineon TC1330 MLC build from wafer — 10 year production extension — re-design cancelled
- Power Grid Distribution Controls — Cypress FIFO/Dual Port SRAMs — Enabled a 10 year extension of in-service maintenance contract
- Industrial Encoder manufacturer — Analog Devices TigerSharc DSP — Bridged a 2 year production gap when their new product was delayed
- Multi-K Module for Simulation equipment — IBM PowerPC 750 — Allowed customer to win unforeseen additional sales after normal LTB
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The supply of components, which have always remained inside the AUTHORIZED bubble, guarantees that the customer gets original performance. An AUTHORISED manufacturing, using original wafer and the original test processes, can provide security of supply for decades – all totally risk free!

So, if you need:
- The widest range of authorised semiconductor stock – off-the-shelf
- Guaranteed quality & authenticity backed by the original OCM
- Small MOVs for stock & small MOQs for new build

The Authorised supply of discontinued components is the safest solution. Whether you require immediate support, or longer-term production, contact your Authorised distributor to discuss your options.

Contact Rochester Electronics
T +44 (0)1480 408400
eumasales@rocelec.com
www.rocelec.com

WE KEEP THINGS MOVING.

As an authorised distributor, Rochester Electronics provides the world’s most extensive range of end-of-life (EOL) and broadest range of active semiconductors to keep the medical, defense and infrastructure industries moving worldwide.

Industry Update is sponsored by Faraday Predictive – see them on page 17
Addressing real challenges in the electrical testing market

Metrel is one of very few companies that develops and manufactures its products at a single location in Slovenia, starting with design and ending with final assembly, quality control and calibration. From its UK office in Epsom, Surrey, Metrel UK supplies its leading range of measuring and testing equipment to customers across the country, as well as providing repair, adjustment and calibration services.

Metrel’s extensive range of instruments offers innovative solutions for testing and measuring, ensuring its equipment is easy to use, intuitive and future proof. Many of Metrel’s products are software based and use touchscreen technology, addressing the real needs and challenges of end users to create a range of products that will enhance the user experience.

Without a doubt, Metrel is committed to solving the issues workers face every day. “Right now lots of electricians own, and use daily, testers that are capable of storing their test results but find the feature too complicated and long winded to use, because they need to make notes about which circuit and board each relates to which location in the tester’s memory,” said Brendan Beaver, the UK Manager of Metrel. “They prefer to fill a copy of a certificate by hand and then make a fair copy either in their best handwriting, or by typing it up in a computerised certificate when they get home. What a waste of their time!”

Metrel understands that engineers need to be able to do their testing and save the results and notes on their tester without needing pencil and paper, so that it is ready to send to the depot or to quickly download. This kind of functionality is not available when a conventional LCD screen is the only thing available, as found on an ordinary multi-function tester.

With the introduction of dot-matrix displays from Metrel, an increasing number of users of multi-function testers like MI3152 and MI3155 are realising the advantages of being able to make notes using the touchscreen’s full keyboard, eliminating the need for pencil and paper. What’s more, the on-board fuse table and connection help screens allied with the pass and fail indicators to give the operator confidence to pass the results to storage.

Metrel’s new memory management system is unique. Also benefiting from the dot-matrix touchscreens, it allows the operator to visualise the installation, highlighting components with a coloured icon, which makes it easier to post the results to the correct circuit without writing anything down. This simplicity is continued when the results are downloaded quickly and easily into an 18th Edition certificate via the USB port.

Metrel also offers a dedicated repair service and expert technical support, working with distributors and partners to offer solutions to any problems, to ensure its products are being used correctly and to their full potential.

For more information, visit our NEW website at www.iew.co.uk, call 01793 694033 or email info@iew.co.uk

CircPro takes over MK Sentry licence for the UK

Following the decision by Honeywell to cease selling the MK Sentry range of circuit protection into the UK market, many users of the range made it clear that they were disappointed to see it go having used it for over 20 years.

To this end, the company that manufactured the MK Sentry range for Honeywell has secured a licensed agreement with them to supply the UK market in a seamless transition.

The product will be supplied to the UK market by CircPro (UK) Ltd who are the UK arm of the manufacturing company that produces the product range. It’s the same products including MCBs, RCDs, RCBOs and 18th Edition complaint boards made in the same factory but brought to the market by CircPro (UK) Ltd instead of Honeywell.

From its base in Rainham Essex, CircPro (UK) Ltd will be delivering to the whole of the UK so once again, this iconic range of circuit protection will be available to the UK market.

The product range will once again be available via your regular electrical suppliers and more details can be found at: www.circpro.co.uk or by calling 01708 986380.
Next-gen thermal management

Ultra-low viscosity Gap Filler Liquids - handling like a potting material while performing like a high class thermally conductive and electrical isolating Gap Filler.

The switch to electric drive systems and the increasing variety of sensors and electronics imply completely new challenges for the automotive sector. Besides the field of electric powertrain, the battery is one of the most critical parts of the EV or PHEV. A perfect temperature control is crucial; therefore, the selection and integration of thermal interface materials is mandatory.

Of course, there are many different types of battery cells, modules, manufacturers and requirements on the market, which vary widely. That in turn leads to a lot of different thermal management solutions that can be applied. In totally it seems to be the most common solution, to transfer the heat of the cells to the bottom of the module and to connect these cells with a Gap Filler Liquid (GFL), which is compensating any kind of mechanical tolerances. But also a thermal connection to the side of the module can be useful. Due to the size of the battery modules, a very large area and in case of the side connection thin gaps that must be covered.

To fulfill that kind of requirements, always thinking about weight, handling and cycle time, KERAFOL invented an ultra-low viscosity Gap Filler, the GFL 1800 SL. It is a two-component system with 1.8 W/mK, 15 kV/mm and a viscosity of <5,000 mPas which means about 1/10 of comparable Gap Filler systems. Therefore, the material is ‘flowing like water’ and has the advantage of self-leveling and filling up every corner, which comes very close to a potting material.

For the thermal connection of the side wall, the dispensing must be started at the bottom to avoid air inclusion. Consequently, a long and very thin dosing needle must be used to fill that kind of small horizontal gap. While it is not possible to fill a gap of e.g. 1mm with standard Gap Fillers, the GFL 1800 SL has a special particle size, shape and distribution and can be dispensed by small dosing needles that have an inner diameter of only 0.6mm. It takes only a short time to fill that gap and the curing time of 60 minutes at room temperature can be speeded up with heat. After curing, the GFL 1800 SL, which is based on low volatile silicone, is very stable and at the same time still soft over the whole lifetime, perfect match for compensation of vibrations and thermal expansion of other components. The GFL 1800 SL combines good thermal, electrical and mechanical properties with a new way of processing. Due to that special flow behavior, also difficult small gaps can be dispensed automatically.

Whether battery, or electric powertrain, the Gap Filler Liquids of KERAFOL are already an approved solution for a wide range of automotive applications and available in the UK from Thermal Issues Limited.

Wolfgang Höfer (Sales Manager KERAFOL GmbH & Co. KG) & Neil Wilson (Director Thermal Issues Limited)

T 01858 431133
enquiries@tiltd.eu
www.tiltd.net
The right all-in-one device for prelocation, pinpointing and correlation

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

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

To then carry out the pinpointing of the leak, the user uses the TS 200 carrying rod and BM 200 (for paved surfaces) or BM 230 (for unpaved surfaces) ground microphone on the section found during the preliminary detection stage. The SeCorrPhon AC 200 transmits the acoustic signals and shows the intensity as a graph on the screen, pinpointing the leak with sufficient accuracy to allow confident excavation.

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

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

The new range of water chillers has been beyond. pharmaceutical, biopharmaceutical, food & including automotive, aerospace, chemical, of mind, serving a diverse range of industries with its highly dynamic, precise temperature control, high connectivity and improved pump performance, your research and pilot plants will be sustainably equipped and ready for the future.

LAUDA’s proven and highly durable process circulator product range provides precise thermoregulation for external applications, from +30 to +320°C with stability up to ±/+/0.05°C dependent upon model. The newly developed, superior cooling technology guarantees maximum process reliability in accordance with the European F-Gas Regulation. With its energy consumption and running costs, giving a sustainable return on investment for the user.

LAUDA’s process and measurement experts, Chell Instruments, has launched a new Environmental Chamber which allows gas meters to be tested using hazardous gases.

The GMTS2000 builds on the success of the company’s line of gas meter test equipment, and enables safe testing using flammable and explosive gases which better represent the gases which meters are intended to carry. While most testing and calibration apparatus utilizes air and other low-risk gases, the new system incorporates several risk-assessed features, which make it safe for more volatile and combustible gases.

Within the chamber, gas meters and other devices can be tested using air, nitrogen, hydrogen or methane, at temperatures ranging from -30 to +70°C and flow rates from 20cm3 (0.0001m3/hr) to 480 cm3 (28.8m3/hr).

To help reduce carbon emissions, international gas suppliers are investigating using low levels of hydrogen with traditional natural gas. Chell’s new Environmental Chamber allows gas meter manufacturers to experiment and assess the performance of their products.

A GMTS2000 Environmental Chamber system has already been supplied to a commercial gas meter manufacturer in Asia. Given COVID-19 restrictions, Chell is also providing the company with complete remote support to enable comprehensive commissioning and training.

For more information on the GMTS2000 Environmental Chamber, please visit: www.chell.co.uk or contact Chell on 01692 500555.

Chell’s Environmental Chamber puts gas meters through real-world paces

Chell Instruments – Experts In Thermal Control And Measurement Providing Innovative Solutions

The complete spectrum of perfect temperature control

• Water baths • Process circulators • Water chillers
• Water stills • Viscometers • Water meters
• Shakers • Temperature measurement • Freezers
• Contact angle measurement


LAUDA continues to provide an expanding range of feature-rich, future proof solutions with energy efficiency and connectivity front of mind, serving a diverse range of industries including automotive, aerospace, chemical, pharmaceutical, biopharmaceutical, food & beverage, brewing, digital printing, laser and beyond.

The new range of water chillers has been beyond. pharmaceutical, biopharmaceutical, food & including automotive, aerospace, chemical, of mind, serving a diverse range of industries with its highly dynamic, precise temperature control, high connectivity and improved pump performance, your research and pilot plants will be sustainably equipped and ready for the future.

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For more information on the GMTS2000 Environmental Chamber, please visit: www.chell.co.uk or contact Chell on 01692 500555.

E X C E L L E N C E I N F L U I D T E C H N O L O G Y

As a worldwide leader in dosing technology, sera ProDos (SA) Ltd is a system provider of high-quality products and services for the dosing and feeding of chemicals and fluids. Indeed, with 75 years of experience, sera ProDos is renowned for its excellent customer service and leading German engineering, offering some of the most robust pumps available on the market to customers involved in food and beverage, pharmaceuticals, and water and wastewater treatment.

Dosing pumps sera dosing pumps and feeding pumps are oscillating displacement pumps for the dosing and feeding of liquids in all industrial fields. We can dose nearly all flowing media, even with aggressive, abrasive, odorous, radioactive, inflammable, viscous or toxic properties – reliably and safely.

Feeding & transfer pumps In addition to metering pumps, sera also offers feed and transfer pump for reliable pumping of all media.

Dosing systems For decades the proven sera delivery program has had an excellent reputation for its high-quality and long-lived products in the area of dosing units. Besides the customised dosing stations sera offers Polymer and Sodium Hydride oxide preparation systems.

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T 03283 753400
www.sera-web.com
Leading masonry manufacturer chooses Compact Fork Trucks

Midlands-based forklift truck sales and service provider, Compact Fork Trucks, is no stranger to the Hyundai brand and already has a large existing user portfolio which it has built up over a number of years. With an ever-growing demand for Hyundai equipment, Compact Fork Trucks decided to sign on the dotted line and is now the official Hyundai Material Handling importer for the West Midlands area. Compact Fork Trucks’ key deciding factor was purely customer-focused - improve the customer journey through direct access to Hyundai’s recently completed training academy, technical support and parts centres all located in Belgium, Europe.

After a comprehensive procurement exercise, Telford-based masonry manufacturer, Besblock, purchased a 70D-9, 7,000 kgs diesel forklift truck from Sales Manager, Greg Silvers. The company was so impressed with the mighty machine, it has recently placed an order for another 70D-9 which is currently on route via cargo ship from Hyundai’s Belgian European Headquarters.

Mr Silvers explained, “I have been selling forklift trucks within the Midlands area for over 13 years and have driven past Besblock’s factory on many occasions. In the last few years I have built up a relationship with the team and an understanding of their operations. The requirement for an additional truck soon arose and the brief was simple; a robust and reliable forklift capable of safely operating in the busy environment of the UK’s largest concrete block manufacturing plant.”

For more information or to arrange a free site survey, please contact the Compact Team on 01384 238000 or email: info@compactforktrucks.co.uk

Handling, Storage & Logistics Update

Mace Industries

Mace Industries is the leading supplier of portable conveyors and hoists to the UK market, with our machines being widely recognised as the ‘go to’ product within national hire and construction companies. We are also the UK distributor for the world-renowned GEDA goods and passenger lifts.

Our equipment provides simple but effective solutions for all aspects of material movement, increasing performance while minimising manual handling, injury, time and costs. For over 30 years, our portable conveying and lifting solutions have proven invaluable to the construction, industrial and warehousing industries.

All our conveyors are built in-house and as an ISO 9001:2015 certified company, our products undergo many quality checks during assembly. Mace Industries will always strive to exceed customers’ expectations and are regularly developing and launching new innovative products.

Our offering to the warehousing industry is the UL-500. A highly modular conveyor designed to provide a conveying solution between a ground floor and an upper level, making it perfect for mezzanine floors. With a wide range of available belts, cleats and flights, the UL-500 is suitable for a magnitude of product.

Mace Industries’ dedicated team of mobile engineers can have any issue resolved and have your Mace machines back in action as soon as possible.

T +44 (0)1536 206600
sales@maceindustries.co.uk
www.maceindustries.co.uk

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10 Industry Update is sponsored by Metal and Modular – see them on page 15

OWR launches Europe’s 1st robotics demonstration centre

OW Robotics (OWR) has launched Europe’s first Robotics Demonstration Centre for businesses looking to transform their warehouse, logistics and manufacturing operations through automation.

Based at OWR’s Lincoln HQ, the centre allows UK businesses to replicate their processes within a sandbox environment, so they can get first-hand experience and insight into how a tailored, automated robotics solution would impact their business. This gives business leaders a clearer understanding of how it will meet their requirements, the scalability of a robotics system and how it can reduce training, safety, recruitment and absence costs, as well as improve picking rates and accuracy. All before making an investment.

Joe Daft, head of robotics at OWR, said, “By visiting our Robotics Demonstration Centre, visitors can see our robots complete tasks that mimic their own processes in a simulated environment, which helps to bring clarity and understanding on how they can meet their demands and challenges - there’s no better way to get the right solution.”

Earlier this year OWR announced a partnership with leading Chinese robotics manufacturer, Hikrobot, to make robotic automation more accessible for businesses of all sizes in the UK.

Book a visit for your own business by emailing: greg.downey@owrobotics.co.uk or visiting: www.owrobotics.co.uk/tour-2020
COVID-19 has affected us all

Your workspace needs to be more organised than ever to ensure you can not only run to maximum efficiency but also keep your team safe. We’re experts in space utilisation and our business services team can help support you.

Get in touch with our team today to book your FREE consultation.

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WWW.BiGDUG.CO.UK 0800 141 3380

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- Mezzanine Flooring
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Istec presents new generation overspeed protection system

Istec presents its SIL rated overspeed protection system: The SpeedSys 200. A game changing innovation driven by decades of experience with speed applications, to broaden the range of rotating machinery that is eligible for high integrity overspeed detection, and to suit a growing demand for SIL certified solutions. The SpeedSys 200 is expected to be globally available in Q3 of 2020.

The overspeed protection market is mainly occupied with rack-based systems that are overly complex for smaller or less critical rotating equipment. SpeedSys 200 negates complexity by delivering the core layer of SIL rated overspeed protection with a compact architecture. Its small technical and financial impact enables accessibility to a wider range of rotating equipment, without any safety concessions.

The demand for high integrity safety systems for rotating machinery is increasing simultaneously to the increasing demand for machine availability for both highly critical and less critical machinery. Istec breaks new grounds by taking concessions.

One of the major drivers of change within the machine protection market is the global adoption of SIL, which applies to both large and small rotating equipment, without any safety concessions. Industrial standards and insurance companies impose the use of functional safety to a wider range of rotating equipment, without any safety concessions.

Boost process efficiency and production output with automation

When David Rybacki founded DRG Manufacturing in the Chicago suburb of Lake Zurich in 2015, he started off with nothing except a commitment to manufacture total solutions for his customers. Since he was not basing his production process on existing equipment, he set out to incorporate automated systems and processes that would provide him with the highest levels of productivity.

"Business has been very good to us," Rybacki said. His commitment to making parts that exceed expectations has much to do with that success. DRG creates parts to three specific, equally stringent sets of specifications: their own internal specs, MIL-SPEC prints that constitute industry standards, and custom OEM prints supplied by individual customers. The company approaches every new product and component build as an opportunity to produce it with the most effective process possible. One of the keys to that productivity has been DRG’s fully automated gundrilling and reaming cell from UNISIG.

DRG serves the firearms component industry, and the shop’s commitment to quality has yielded dramatic results. In three years, it has grown from six to 40 employees and has increased its business eightfold.

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DRG’s automated cell uses a barrel blank as a workpiece, while at the same time reducing setup times and increasing accuracy for mould makers. All machines support the high fed-rates of modern indexable gundrill tools.

UNISIG adds five new models to its proven range of deep drilling & milling centres

With the new range of UNISIG’s USC-M deep drilling and milling centres, mould makers now have several powerful and versatile solutions for workpiece diameters of up to 3,600mm and workpiece weights of up to 30t.

All machines combine several processes in one machine: the deep hole drilling and milling on all four sides of a workpiece, while at the same time reducing setup times and increasing accuracy for mould makers. All machines support the high fed-rates of modern indexable gundrill tools.

In addition to the use of gundrill deep hole drilling tools, some model can even support the more effective BTA deep hole drilling tools for the high performance drilling of waterline holes. A CAT50 quill allows you to perform all deep hole drilling and machining operations within the machine’s working range. The machines are equipped with a 360-degree rotary work table and a programmable deep drilling and machining spindle. The machines can be equipped with an automatic tool changer with up to 120 tool positions, a laser tool presetter, workpiece probes, Heidenhain glass scales for increased accuracy, and an automatic pallet changer.

UNISIG is exhibiting at the EMO show in Milan, Italy 4-9 October 2021. Further information on all machines of the UNI, UNR and R-2A series and the complete UNISIG machine program is available at: www.unisig.com or follow the company on LinkedIn and Twitter.
Removing the barriers for advanced materials manufacture and volume adoption

A|2|O Technology Group has been invited to comment on emerging strategies for new materials, including flexible advanced composite manufacturing and the development of new materials for manufacturing and manufacturing processes, including additive manufacturing, digital technologies and materials design. A|2|O Technology Group has been invited to comment on emerging strategies for new materials, including flexible advanced composite manufacturing and the development of new materials for manufacturing and manufacturing processes, including additive manufacturing, digital technologies and materials design. A|2|O Technology Group has been invited to comment on emerging strategies for new materials, including flexible advanced composite manufacturing and the development of new materials for manufacturing and manufacturing processes, including additive manufacturing, digital technologies and materials design. 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Kingston Engineering is one of the UK’s leading manufacturers of bespoke power screws. Based in Hull, the company offers a vast selection of materials and specifications designed to suit their clients’ requirements. “We produce power transmission equipment used in a variety of industries, including aerospace, nuclear, medical, water, rail, and many more,” explained Paul Bielby, Director.

With a history dating back to 1919, Kingston Engineering celebrated its 100-year anniversary last year, an admirable feat which proves the company’s outstanding reputation in the industry. For over 60 years, Kingston Engineering has specialised in manufacturing right-hand/screw, single/multi-start, cut thread power transmission screws and nuts, all of which are adaptable for mechanical power transmission. These products also conform to the standards of British, European and American requirements and meet ISO 9001:2015 accreditation, as well as being thoroughly examined during the manufacturing process.

Working closely with both suppliers and end users to provide the best purpose-built screws possible, Kingston Engineering has customers throughout the UK and the US, offering one-off prototypes to full batch manufacture. Kingston Engineering specialises in offering bespoke manufacturing services, addressing its customers’ specifications to ensure their needs are always met. These services are informed by over 100 years combined experience between the company’s directors, all of whom are committed to investing in Kingston Engineering’s skilled workers, facilities and technologies to ensure continued success.

Certainly, Kingston Engineering is always engaging in plans to help the company become global leaders in screw/nut manufacturing. One recent investment was in a new Mitutoyo Euro M544 Measuring Machine, which has become invaluable in the company’s inspection department. This allows Kingston Engineering to measure the physical geometrical characteristics of an object. The machine creates printed inspection reports and is controlled by an operator with measurements designed by a probe attached to the third moving axis of the machine. Additionally, Kingston Engineering invested in a Hi-Tech 450 AMC Turning Centre, the latest addition to its CNC Turning capacity. This one piece heavy duty cast iron construction is a major contribution to the company’s turning capacity. All details are available on the website or why not give us a call for a chat about your requirements over a virtual coffee.

“We’re very much looking forward to what the next 100 years will bring, as we focus on continued investment in our machinery and our people,” Paul explained. “Engineering in general has been hit by the COVID-19 pandemic, but our work in the medical, water and machine refurbishment fields has enabled us to maintain a high level of production while adhering to social distancing guidelines. We’d like to thank our customers and suppliers for their continued support through these challenging times, and now we’re focusing on seeing the company continue through the next generations while upholding the strong name we have within the industry.”

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

Contact
T +44 (0)1482 325676
sales@kingston-engineering.co.uk
www.kingston-engineering.co.uk

Leading UK manufacturer of bespoke power screws
Innovators in site safety equipment

The company’s entire range is designed and built in the UK and includes Site Vaults, Fitting’s Cabinets, a range of Auto Braked Trolleys, Cutting Stations, Pipe Stores, Pipe Racks, Safety Guards and Heavy Duty Work Benches, as well as low-level access accessories.

Notably, Metal and Modular has developed its Anti-Climb Guard for Power Tower’s. Ecolift and Pecolift vertical lift systems, fully approved by Power Tower, the system is easy to fit and meets all weight and weight balancing requirements to provide a proven solution to unsafe use of Ecolift and Pecolift vertical lift equipment. Fabricated from steel mesh and sheet steel, the Metal & Modular AntiClimb Guard works by preventing operators from using the lower handrail as a step, thus preventing them from climbing onto the upper handrail. The system deflects the foot to prevent any purchase on the handrail and is firmly held in place by tamper-resistant bolts.

Lynne Bowering adds: “Climbing on LLA equipment not only poses a risk to the person climbing but to all other operatives on site because this unsafe behaviour could cause the equipment to tilt or even topple over. It could also damage the equipment. All of these scenarios are prevented by the Anti-Climb Guard system we’ve developed.”

To complement this, Metal and Modular also offers Tool Trays, which are purpose built for these access platforms. These provide a convenient and safe storage for tools, as well as special tethering harnesses to ensure the tools are secure while working at height. This eliminates the risk of injury to passing personnel and the public.

Metal and Modular is also renowned for its range of Patented Auto-Brake Trolleys. These includes the Panel Trolley, the Load Trolley and the Outwork Rack Trolley all of which are compliant with BS EN 1737-1:2002. The trolleys’ Auto-Brake system functions automatically when stationary and is always on for trouble-free loading, unloading and safe storage. To safely manoeuvre the trolley you simply operate the hand brake levers to release the AutoBrake. In addition Metal and Modular have also also designed an optional carriera for the Panel Trolley which allows you to carry delicate materials with less risk of damage, such as glass, ceramics and soft metals. Feedback from our clients is that the Panel Trolley allows you to manoeuvre twice as many boards with less effort, meaning fewer Trolleys on site at any one time.

As well as its trusted product range, Metal and Modular also offers outstanding customer service, that only an inhouse design and manufacturer can offer.

Although the construction industry took a hit during the initial months of the COVID-19 outbreak, Metal and Modular is now seeing positive signs of recovery with business increasing significantly over the last two months. "We’re bringing out new designs all the time, and this didn’t stop during the pandemic. We carried on designing and we’ll be launching some new revolutionary products in the coming months," Lynne explained.

To find out more information on Metal and Modular’s full range, head to the website or get in touch using the details below.

T 01327 343300
sales@metalandmodular.co.uk
www.metalandmodular.co.uk

Automation & Process Control Company of the Month

The most professional servomotor planetary gearbox manufacturer in the world

Established in January 2019, Apex Dynamics UK is the exclusive UK distributor of Apex Dynamics Inc.’s high precision helical planetary gearheads, located in Uttoxeter, Staffordshire, Apex Dynamics UK services the UK and Ireland markets with all products created in its CE and ATEX certified manufacturing facility. With over 100,000 units in stock to meet clients’ immediate needs, and over 84 different product types to optimise servo applications, Apex Dynamics UK is a leading manufacturer and distributor of high-quality and excellent value servomotor drive planetary gearbox technology.

One of our key benefits is our industry-leading product design,” explained Mike Gulliford, Managing Director. “We have numerous patents in our technology, and our products feature high power density relative to their size. We also offer excellent delivery performance, with lead times of three weeks or less. This is market leading, with many other companies offering delivery closer to 16–20 weeks. We are also the only supplier in the industry to offer a five-year worldwide warranty, including the seals and bearings.”

Without a doubt, Apex Dynamics UK’s unparalleled delivery capabilities and unique five-year warranty makes it the number one choice for companies working in a vast array of industries. “Our primary customers work within packaging and food processing, printing and lasering cutting, but we also have customers based in woodworking, medical and military sectors,” Mike elaborated. “The range of applications for our planetary gearboxes is very wide, and we pride ourselves on being the world’s most professional manufacturer of such technology.”

Recently, to cope with its continued expansion, Apex Dynamics UK employed a new sales manager for the Northern region, Malcolm Hillary, who brings with him an impressive level of industry experience. “We will be adding more engineers and expanding our product range in the next few years. We’ve already expanded our range of gearboxes for the food industry, and we will be expanding our portfolio in relation to manufacturing and stainless steel in the near future.”

After great success at the PPMA Show in September 2019, Apex Dynamics UK has a busy calendar of events planned for 2021. This will include The Manufacturing & Supply Chain Conference & Exhibition in Dublin (Citywest Exhibition Centre, 27-28 January), Future Robotics at the NEC (29-30 June), the PPMA Show (NEC Birmingham, 29-30 September), and the Drives & Controls Exhibition (NEC Birmingham, 5-7 April 2022).
How the right environment can optimise X-ray inspection performance

X-ray inspection machines offer great benefits to CEMs and OEMs in both quality control and troubleshooting applications. However, the most powerful machines are complex, advanced technology devices, so users need excellent training and support to optimise day-to-day performance.

This aspect is well-recognised by Newport-based CEM Axiom Manufacturing Services, who highly emphasise the ‘human factor’. Their people-based approach to their workforce, customers and suppliers has facilitated remarkable growth, reaching £50.1m in 2019.

Accordingly, they continuously nurture and enable their workforce, while offering extremely high customer service levels. They also seek to work with suppliers who share their ideals, because this allows them to rapidly absorb and obtain competitive advantages from advanced-technology machines like X-ray inspection equipment.

Axiom recently demonstrated this strategy while upgrading their X-ray inspection facility. They invited Cupio, as suppliers of inspection, production, and test solutions, to discuss an X-ray inspection upgrade. Firstly, Cupio reviewed Axiom’s existing machine, providing insight into its full potential; accordingly, it remains in service, with improved benefits for Axiom.

Cupio then showed how the Nordson Dage Quadra 7 X-ray inspection and failure analysis machine’s advanced technology would enhance both their production and troubleshooting activities. Along with the Quadra 7’s 100nm resolution and 4k image quality, it provides a massive improvement for higher-volume production because of its throughput. Easily programmable with automated routines, it accepts up to five boards simultaneously. This parallel processing is valuable where 50,000 boards/month throughput is typical, with batch sampling rates of 20-30 boards.

Axiom regards Cupio’s ongoing training as absolutely crucial to their X-ray inspection success. The programme has covered SMT inspection, BGA, QFN, and voiding measurements for customers, and through-hole fill measuring. It will also include Quadra 7’s X-Plane CT functionality and µCT, encompassing 3D plus 2D imaging.

Drives & Controls Update

RK Rose+Krieger (part of the international Phoenix Mecano group of companies) has been manufacturing components for automation and machine building for over 40 years. Our extensive range of products in the fields of linear adjustment, profile technology, connecting and module technology are renowned and respected for their reliability and performance.

Linear products are used in almost every single area of automation and machine engineering. From simple adjustments that may be seldom right up to highly complex, highly precise and highly dynamic multi-axis systems. Every task is different and every task requires a technically sophisticated and cost-effective solution.

Blocan aluminium profiles are designed to save you time and money, as an alternative to fabrication. The flexibility, ease of assembly and large range of ancillary products that comes with this range offers the end user an attractive alternative solution for machines, workbenches, guarding, in fact almost anything!

The R+K range of clamps from our connecting technology product line are available in plastic, cast aluminium, extruded aluminium and stainless steel. They can be used for a wide range of applications from low loads to very high demanding and dynamic loads and also offer corrosion and temperature resistance.

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rk@pmgb.co.uk
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Simmatic Automation, Vmeca product specialist and UK agent for 15 years. We don’t have vacuum problems, just solutions! www.simmatic.co.uk

T: +44 (0) 1299 877770 www.simmatic.co.uk E: sales@simmatic.co.uk
Shaking up the world of maintenance to drastically reduce your downtime

Industry Update is proud to announce that Faraday Predictive has been selected as our Predictive Maintenance Company of the Month.

Faraday Predictive is a developer and provider of condition monitoring and energy monitoring systems, including hardware, software and services, all based on using the electric motor driving the equipment as the sensor. The company’s MBVI technology (www.faradaypredictive.com/technical-education/mbv-technology), which has been developed entirely within the company, effectively turns the motor into a vibration sensor.

The units fit inside the motor starter cabinet, out of harm’s way, and from there communicate information about the health of the rotating equipment, as well as the energy consumed and an assessment of the energy being wasted by each developing fault in the system. Faraday Predictive also provides portable systems that provide the same information on a snapshot basis.

We got the chance to speak with Geoff Walker, Director, about the importance of condition monitoring and how Faraday Predictive’s technology can avoid the limitations of vibration sensors while maintaining their benefits.

“Many companies operate in the world of breakdown maintenance rather than predictive maintenance,” Geoff explained. “This causes unplanned downtime, loss of production and ultimately costs the company a lot of money. Alternatively, companies look at doing planned maintenance, but this is time consuming and costly. There are, however, situations where you have to maintain the machines. This comes with a multitude of issues — you have to figure out what the right tasks are and how frequently you should do them, so you might end up doing maintenance tasks far more often than you need to, resulting in unnecessary work and wasting money.

“With predictive maintenance, you avoid unexpected breakdowns, reduce maintenance costs, optimise energy usage and ultimately deal with a lot less hassle. Equipment is only maintained when it needs to be, providing a combination of the lowest costs and highest reliability for your machines. The only issue is you need something to tell you when these machines need maintaining — issues tend to develop over a period of time, not just happen instantaneously. So, if you can get an indication of things slowly deteriorating, you can do the only maintenance that’s really needed, and only when it’s needed.”

Companies which have switched to the world of predictive maintenance have reported reduced maintenance costs, reduced unplanned downtime and increased production. With Faraday Predictive’s technology, they can achieve a system that is essentially a virtual vibration sensor, providing a real-time assessment of the health of the rotating equipment.

The only issue is you need something to tell you when these machines need maintaining. Without this capability, it is difficult to know what the right tasks are and how frequently you should do them, so you might end up doing maintenance tasks far more often than you need to, resulting in unnecessary work and wasting money.

“With our technology, we’re looking to shake up the world of maintenance, and show people the benefits of moving from chaos (the world of breakdown maintenance) to controlled, minimised maintenance (the world of Condition-Based Maintenance, CBM). As we continue to develop our systems in the future, we want to get to the point where it’s so cost-effective that people won’t even question whether to put it on their equipment, making it as widely implementable as possible.

“Because this is all new, people tend to be sceptical or simply have questions about it. We are very happy to answer such questions either by email or phone. We’ve formed from a team of mechanical and electrical engineers, mathematicians and computer scientists, so we’ve got a breadth of knowledge and understanding of what clients are dealing with – we are always happy to help advise them on the best way to address things.”

T: +44 (0)333 772 0748
E: info@faradaypredictive.com
W: www.faradaypredictive.com

The benefits of this system over conventional vibration monitoring for monitoring inaccessible equipment

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PPMA equipment show postponed until 2021 over pandemic concerns

Organisers of the UK’s key annual packaging and processing equipment event, PPMA, have stated that the industry showcase is to be postponed until next year amid ongoing uncertainty surrounding the coronavirus pandemic.

The show’s management said that it had held detailed conversations with the venue, National Exhibition Centre (NEC), and in the interests of health and safety for all concerned, it is moving from this September to 28-30 September 2021.

Major manufacturers of equipment across a number of sectors, including confectionery and bakery lines were due to be exhibited at the event, which has operated for over 30 years.

Speaking about the decision, the organising team said that it had considered the implications for visitors and exhibitors in respect of everything from social distancing, availability of hotels, travel and the preparation time required.

Furthermore, the team noted that the Government has also not yet released restrictions regarding mass gatherings, or published any guidelines for staging large scale events, that had also impacted on its decision, with the health and safety of visitors remaining paramount.

As organisers noted, this year’s planned show had already attracted strong interest, with over three quarters of all exhibition space sold seven months prior to the Government lockdown in March. The show was on course to be one of the largest PPMA shows in 32 years, which reinforces its growing popularity and brand strength.

The PPMA Show 2020 website (www.ppmashow.co.uk) will remain a continual information source for exhibitors and visitors, which will include enhanced media and video content.

Playing our part, we at Industry Update would like to feature a number of companies deserving of your attention in the two year gap between 2019’s show and 2021’s hope it return to the NEC – listed here in alphabetical order: BOPLAN®, Detectamat, Evolution Bottling and Packaging Solutions, Herma, Van Der Graaf & VEGA

Protect your people, equipment, machinery and infrastructure

BOPLAN® is the worldwide market leader in ‘high performance safety systems’ for industrial applications.

We design, develop and manufacture sustainable and highly effective safety systems for the most demanding environments. All our safety products have only one goal: the protection of people, vehicles, equipment, machinery, buildings and infrastructure.

The modular safety systems of BOPLAN® are among the safest, strongest and most innovative on the market and protect numerous industrial buildings, warehouses, factories, airports, drilling platforms and petrochemical sites worldwide. We have a safety solution for every specific application.

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BOPLAN® AXES GATE (Industrial safety gates for works at heights), LINE PLAN (floor markings), XTRA GRIP (wear-resistant anti-skid solutions to prevent falling and slipping) and TEDDY PRO (protective bumpers) complete the vast range of safety solutions.

Contact us at BOPLAN UK T 01920 824280 sales@boplan.co.uk www.boplan.com

Detectamat: Detectable products

Detectamat is a global manufacturer and supplier of metal detectable & X-Ray visible products. Working with food and pharmaceutical industries, our award-winning products help to reduce the risk of foreign body contamination, averting the risk of expensive and damaging product recalls.

We are an innovative and enterprising company with a continuous desire to improve and evolve our product offering to bring greater food safety standards to our customers’ clients. Having started in 2003 as a start-up manufacturing company in East Yorkshire, we have undergone huge growth and now have 4 offices in the UK (Glasgow, Leeds, Aylesbury, and Canada). Despite growing to a globally recognised organisation within the food safety sector, we are proud of the fact that we are still innovative and dynamic to manufacture bespoke products upon request to suit specialist needs for our clients.

We have an extensive product range, from stationary to storage solutions to personal protective equipment, all manufactured to be detectable in a manufacturing environment. Where practical, we manufacture reusable detectable products to reduce the amount of waste produced by our clients.

T 01759 304000 sales@detectamat.com

Detectamat is sponsored by Metal and Modular – see them on page 15

HERMA Labelling Systems

Have you thought about automation?

There are many advantages to an automated self-adhesive labelling solution. In comparison to other methods, self-adhesive labels are easy to apply, resilient and when used alongside a labelling machine, make for a significantly faster and more reliable product labelling process.

Easy to use, Herma’s Labelling Machines, designed and manufactured in Suffield, self-adhesive labels from a reel via an applicator, placing labels swiftly and precisely onto the product. This automated process has proven particularly beneficial to customers requiring a labelling system urgently during these challenging times.

Whether providing machinery from their comprehensive stock, manufacturing bespoke solutions, or adapting processes to allow them to conduct live virtual Factory Acceptance Tests, Herma is focused on helping customers meet an increase in demand for their product.

Should you require any assistance with your product labelling process, contact Herma on the details below, where one of the team will be happy to offer their assistance.

T 01440 763366 sales@herma.co.uk

Evolution and MBF: A dynamic partnership

Evolution Bottling and Packaging Solutions is the UK partner of MBF: the leading, global manufacturer of rinsing, filling and capping equipment for the bottling sector. With more than a decade’s experience providing highly innovative machinery, Evolution and MBF bring technologically advanced bespoke solutions to UK and Ireland’s premium drinks producers.

Evolution and MBF always put their customers first and fully appreciate the importance of maintaining the integrity of their customers’ products through all stages of the filling process. Specialising in filling wines, spirits, beers and cider, MBF invests heavily in research to ensure that its technology provides the best solution to its customers, exhibiting a shared passion for the integrity of its customers’ products.

The full Evolution BPS product portfolio also includes all types of labelling machines, end of line inspection and coding equipment, hooding machines, and a complete range of advanced inspection systems. The superior product range, combined with the excellent customer service delivered by the team at Evolution, facilitates the ability of Evolution to meet a spectrum of customer needs — whether an individual machine or a full turnkey solution.

T 01721 724296 sales@evolutionbps.co.uk www.evolutionbps.co.uk

From simple to complex

New sensors and switches portfolio for food, beverage and automation

The launch of its new, low cost, high specification VEGABAR pressure switch/sensor and VEGAPoint level switches enable VEGA to help its customers in even more areas in the food and beverage production processes. This brand new compact instrument series is perfectly tailored to the standard applications that still require high quality and strict hygiene.

The new level and pressure devices have options of:

- Universal adapter system of process fittings
- Provides flexibility to keep installation and spare inventory costs low
- 360° Illuminated status display ring – ensuring visibility, safety and process reliability
- Displays and keypads with dual easy-read text and VMDA menu – guarantees the right set up every time
- IO-Link protocol – providing compatibility, intelligent data transfer and simple, fast system integration

For more information visit www.vega.com/uk

Van der Graaf BV

Van der Graaf is a Dutch, family owned company with production plants in Holland, Canada and the States and produces and supplies the worldwide well-known 10V® drum motors. A drum motor is the ideal, one component, maintenance free drive for your conveyor with motor and reducer fully integrated in the roller.

The 10V® drum motor is known because of its quality and reliability. All parts are produced according to the latest demanded high standards on a modern CNC machine park. Not only the quality but also the service is a very important part of our successful development. It’s our goal to keep your system on the move.

Drum motors can be used in many different applications, like for example food, agriculture, recycling, internal transport, sorting systems, crushers and bulk handling. The range we can offer you varies from diameter 80mm up to 2500mm with a power range depending on the diameter from 0.04kW up to 250kW.

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The universal, flexible hygienic adapter system reduces not only the amount of work involved but also the spare parts inventory.

Wireless Bluetooth communications capabilities – remote easy set-up or function check via the five, simple, (and award-winning) VEGATools App

The full VEGATools product range is available at www.vega.com/uk
LabelSaver™ nominated for Packaging Award

Dutch company O&PM Europa has been nominated for a prestigious award. Its unique invention, the LabelSaver™, is nominated in the 2020 Packaging Awards in the category for Innovative Technology. The ceremony, which has been delayed due to COVID-19, will take place in February 2021.

The LabelSaver™ integrates O&PM Europa’s own robotics with the Memjet-powered TrojanLabel print engine and proprietary coatings to create a self-moving printer for label-less production. It can be used to print high quality colour directly onto objects including metal paint cans, plastic containers, and bottles. As an example, LabelSaver™ can print at a rate of 500 Jerry cans per hour in full colour, 360 degrees. The system is also capable of printing on Memjet-receptive coatings for flexible packaging and films.

LabelSaver™ was developed in response to the proliferation of SKUs and increased demand for short-run labels, which has driven small manufacturers to look for more economical ways to label their products. O&PM Europa is also working on a table top coater for applying water-based inkjet technology. Primes can be formulated for any type of substrate. See the details below to find out more.

www.opm-europa.com
T 0031 657 26 25 44

MBO at DataLase

The current leadership team at coding and marking specialists, DataLase, has acquired full independence for the company through a management buyout (MBO) from SATO, the leading global provider of Auto-ID solutions.

Advisory assistance was provided by international audit, accounting and consulting group, Mazars, and legal advice by UK law firm Shoosmiths. The deal was led by the firm’s COO & CFO, Clare Lewis, CMO, Paul Dustain and CTO, Alexander (Alix) Grant and completed on 15 Sep 20.

DataLase was originally acquired by SATO in December 2016. The change in direction is centred on SATO’s strategic aim of concentrating its resources on its auto-ID solutions business to build sustainable growth and enhance its corporate value. Meanwhile DataLase looks to push forward with increased technological advancement and to further develop its Photonic Printing offering.

Clare Lewis, now DataLase’s CEO, said, “With an excellent understanding of the business and an appreciation of its future direction, the management team can now continue on the path of new product commercialisation and growing the legacy business.”

DataLase has since refreshed its corporate identity. Its updated brand style includes the strapline ‘Connected Photonic Solutions’, referencing its innovative laser technology.

Find out more at: www.DataLase.com

GSE’s Colorsat FCS ink dispenser: the recipe for productive, efficient label printing

GSE’s Colorsat FCS manual ink dispenser brings cost reduction and traceability to small-scale label printing operations

GSE has introduced a compact, manual ink dispenser for fast accurate and efficient colour preparation, targeting small label or packaging printing enterprises.

The Colorsat FCS (Formula Checkweigh System), featuring GSE Ink manager software manages all conventional inks — including waterbased and UV-flexo, Offset, gravure and letterpress inks, cutting makeready time, and reducing ink consumption by up to 30%.

Ink kitchen processes are simplified. Colorsat FCS’s automatic ink recipe calculations enable spot colours to be prepared, on target and in the exact quantity needed for the printing job. It provides the formula of the base colours in exact weights, then leads the operator through a controlled weighing process using a precision scale. It can be used to prepare all previous jobs can also be calculated into new recipes, keeping waste to a minimum.

With the optional GSE Traceability software module, Colorsat FCS brings full traceability of ink batches. In food and pharmaceutical markets, therefore, complying with strict GMP and BRC safety standards becomes much easier.

Both Colorsat FCS and its software are easy for the customer to install and use, without the need for a GSE engineer to provide on-site installation.

www.gsedispensing.com/gse-colorsat-fcs-ink-dispenser/
Don’t crack up

Bond It, one of the UK’s fastest growing manufacturers of sealants, adhesives and building chemicals, has launched a new sealant to complement its already growing silicone and sealant range.

No Crack Caulk, introduced under the company’s Superheroes brand, is a water resistant, high quality decorator’s caulk that prevents craze cracking when painted. This white, solvent-free, water-based sealant is highly flexible, with a joint movement capability up to 12.5% and can be overpainted within 1 hour.

With excellent gap-filling properties, this hard wearing Caulk contains a fungicide to retard mould growth and is suitable for use on both interior and exterior jobs. Adheres to most surfaces without the use of a primer and is non-corrosive to metals. It is more resistant to movement than most standard caulks and is longer lasting. Perfect for sealing around window frames, architraves, cornices, PVC profile trim and cladding, plasterboard joints and for sealing cracks and gaps in plaster, brickwork, concrete, skirting boards and walls.

For more information on Bond It, contact our Sales Team on 01422 315300 or visit: www.bond-it.co.uk

3 ways to support and nurture your workforce

It’s safe to say that employees are a company’s greatest asset and a positive outlook is now more important than ever. The foundation is based on businesses being able to give employees a sense of certainty, empowerment and direction.

Building a sense of certainty

Unforeseen challenges, like the COVID-19 pandemic, create difficulties for business leaders that few expect or often are prepared for.

As a result, businesses need to address the challenges by creating as much certainty as they can to re-assure employees on the job, whether they are working from home or in the office. Building this sense of certainty is one of the most critical tasks that leaders will need to implement, by clarifying priorities and communication strategies.

Establishing a sense of empowerment

Employee empowerment is all about accountability and trust. Businesses need to give its team a certain degree of autonomy and responsibility for decision making during these unprecedented times. Not only will this benefit their daily work, but it will also help pave the way for long-term success and an ongoing work culture practice.

Forging a sense of direction

Business leaders need to set the tone for the business from the top down. In order for organisations to succeed, senior employees should lead by example and drive the team to succeed.

By bringing people across the organisation together and creating a sense of unity will help employees feel like they are part of the business’ long-term success and a vital asset when working through any crisis.

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The Syntesis® Flush benefits

The Syntesis® Flush Pocket Door system provides you with a door that is there when you need it, and that is capable of blending into its surroundings. It becomes the perfect solution for any bathroom, en-suite, utility room, walk in wardrobe or anywhere in a property where you wish to better use space that would otherwise be taken up by the swing of a hinged door. ECLISSE UK have recently gone one step further with their pocket door collection and released their new and improved system that provides even greater ease of installation with the addition of new Eclisse features to further increase stability and provide a professional finish.

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Premium car care company, Autoglym, has installed new thermal inkjet technology (TIJ) on its bottling line, which has resulted in cost savings of around 33% on the batch coding process.

Supplied and installed by Rotech Machines, a leading UK manufacturer of coding and marking solutions, the TIJ technology has increased output, reduced labour costs and gives Autoglym greater coding flexibility. “Since installing the new printer, we’ve increased output by a third and no longer need any additional labour to label bottles,” said Autoglym Project Manager, Damien McKenzie. “The printer is so simple and effective – it sits neatly on the conveyor and requires little intervention, other than changing the settings on the software. This single printer has solved all of our previous issues and delivered some significant cost savings.”

Established in 1965, Autoglym’s award-winning products are distributed and sold worldwide, and established a Royal Warrant along the way. Operated from its factory in Letchworth, Hertfordshire, the in-house process of batch coding products is fundamental for global distribution and traceability.

However, when the company looked more closely at this process, it was proving costly and inefficient. “Since installing the new printer, we’ve increased output by a third and no longer need any additional labour to label bottles,” said Autoglym Project Manager, Damien McKenzie. “The printer is so simple and effective – it sits neatly on the conveyor and requires little intervention, other than changing the settings on the software. This single printer has solved all of our previous issues and delivered some significant cost savings.”

Polishing up the coding process

Autoglym products come in a range of types and sizes including cans, jars and most notably, plastic bottles. Their products are shipped all over the world and, by nature of the product, they are used in ‘wet’ or harsh environments – they needed to find a more reliable and cost-effective way of coding each bottle. Rotech Sales Manager, Steve Ryan, said, “Autoglym were manually applying codes to 2.5 litre and 5 litre plastic bottles, printing black text in both standard English as well as Chinese characters for their Asian market. They needed to find an automated solution that was quicker, more reliable and more cost-efficient – one that would not interrupt the conveyor line. Importantly, the solution needed to be durable, to avoid any potential issues with the labels becoming damaged by moisture, and to prevent them from being removed”.

Coding that will stand the test of grime

The Integra TIJ printer was chosen because it is small, compact and ideal for integrating into small spaces or onto conveyor lines and produces high-quality prints on just about all surfaces, leaving a highly durable print that will endure even wet environments.

TIJ is clean and reliable and requires no maintenance. The ‘click-in, click-out’ ink cartridge can print up to 400,000 clear, high-quality prints (up to 600dpi) – no mess and low consumable costs. Autoglym can now switch from black to red ink on specific products by simply swapping cartridges.

The required data is set through the iDesign format creation software, allowing Autoglym to create and edit their batch numbers, dates and times and line numbers, and switch to Chinese characters as required.

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The new gas analyser made in Germany by MRU, is designed for stand-alone, long-time measurements, with all modern real time data transfer to PC or smartphone via Wi-Fi, or Ethernet, RS485, USB and 4-20mA analogue outputs.

The analyser is housed in a rugged aluminium enclosure with rubber corner impact-protection, and is using Linux operating system, with a high contrast 7” (840x480) graphical display and intuitive touch & swipe panel.

Automatic measurements and data logging are available, also with graphical measurements visualisation and CSV or PDF emission reporting using the powerful MRU4Win PC software.

Beside of the improved heated gas sampling probe with easy & fast exchangeable filter cartridge, the analyser is using a heated sampling line and built-in efficient Pellet gas cooler with automatic condensate draining pumps, flow rate regulated gas sampling pump with internal sample flow measurement and on display alarm, 3-way valve for automatic zeroing, all system components required to produce correct gas measurements, even for longer-time gas sampling.

Including up to 6 electrochemical cells and a 3-gas infrared bench, the analyser can perform an up to 9-gas analysis of O2, CO, CO2, NO, NO2, SO2, H2S, HCL, H2, CO, CH4, or C2H6 with volumetric and mass emission calculation of mg/Nm3 and g/Nm3 and with O2 referencing. Measurement of flue gas temperature and flow velocity by means of integrated differential pressure sensor and Pitot or Darcy tube, is completing the large spectrum of use.

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www.mrueu.eu
The perfect laser for any application

Industry Update is proud to announce that Z-LASER has received our Industrial Laser Company of the Year award.

Founded in 1985 by Kurt-Michael Zimmermann (right), 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.

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
www.z-laser.com
An optimised design for valve actuators

The Camtorc series actuator is a mathematically derived cam system first manufactured in 1975. It has been in continuous production since, gaining a base in industries all over the world. Imtex Controls acquired all rights to the design in 2006 and integrated it into a modular assembly that is particularly suited to space-sensitive or remote/inaccessible locations.

The unique Camtorc design has many advantages over other actuator systems, and it is important for end users and buyers to be aware of these differences. This case study will explain the advantages of Camtorc, outline the modular components, compare Camtorc to other actuator systems, and also demonstrate how fail-safe valves, or applications where Maximum Allowable Stem Torque (MAST) is a concern, will benefit from improved torque-efficiency and a reduced risk of valve failure.

The Camtorc actuator is a linear to rotary motion convertor primarily used for the pneumatic or hydraulic actuation of quarter-turn pipeline valves and dampers. Consequently, the design has seen a big uptake in the oil/gas, marine and power generation industries.

What really sets this design apart is the mathematical profile of the cam which ensures a constant output torque during the piston stroke. This eliminates backlash. The combination of zero backlash and constant output torque means there are fewer moving parts = reducing possible causes to fail, which contributes to a longer service life and lower maintenance costs.

Additionally, this optimised system also avoids two more, related problems. Firstly, the constant torque negates large side-forces which require additional infrastructure within the housing. This in turn avoids the problem of side-loads, which require more complex assemblies. As a result, Camtorc actuators are more compact and generally have lower installation costs.

Compared to other actuator systems, such as the scotch yoke design, Camtorc offers substantial advantages. The scotch yoke actuator employs a piston that moves a yoke via a sliding pin. It is easiest to think of Camtorc as an optimised version of this design, clamping the yoke apparatus (attached to the pistons) around the cam so they remain in contact along a frictionless surface.

On safety critical valves (i.e. ESDVs) it is increasingly common to carry out some form of valve assembly testing, such as Partial Stroke Testing (PST). The advantages for plants and rigs are that critical valves are tested for integrity without the cost burden of shutting off the valve.

There are two distinct advantages to the Camtorc design when it comes to PST:

- In the dual piston-design of the Spring Module less air needs to leave the actuator to start the piston moving, and a much larger pressure drop is required to complete the stroke. This significantly decreases the risk of over-travel (spurious trips).

- To prevent over-travel a maximum pressure drop is often set, but on a scotch valve actuator this is usually very close to the pressure required to start moving the valve. Therefore, if the valve sticks a little (which often happens when a valve has been inactive) the test might fail erroneously: since a slightly lower pressure would cause the valve to move. With Camtorc, the larger pressure differential on the spring stroke allows for much more control of the PST system, and the maximum permissible pressure drop is far less likely to abort the test.

False fails and spurious trips are costly and risky on a plant or oil rig where they might lead to a partial or complete shutdown of operations.

For the buyer, all of the design benefits of the Camtorc actuator system result in a significantly reduced Whole Life Cost (Whole Life Cost is the projected cost of an asset over its entire life). The Camtorc series is available for pneumatic and hydraulic applications in either double acting or spring return configurations with a full range of modular control accessories.

Please contact Imtex Controls on +44 (0)8700 340 002 or email: sales@imtex-controls.com for more information.