

INDUSTRIAL PROCESS NEWS

Tel: 0121 550 2086 - www.industrialprocessnews.co.uk - June/July - Issue 702

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IPN

Six Mobile Metal Separators sold in 3 months

Following a surge in orders for their mobile metal separator, Steelweld Enviro Products Ltd and CRJ Services have ordered six Bunting Eddy Current Separators and Rare Earth Drum Magnets in the first quarter of 2021. The Eddy Current Separators separate non-ferrous metals from non-metallic material with the Rare Earth Drum Magnets recovering magnetic materials.

Bunting is one of the world's leading designers and manufacturers of magnetic separators for the recycling and waste industries. The Bunting European manufacturing facilities are in Redditch, just outside Birmingham, and Berkhamsted, both in the United Kingdom.

Steelweld Enviro, from Cookstown in County Tyrone, designs and manufactures a world class range of innovative solutions for the waste recycling sector. CRJ Services hires and sells quality machinery from world-renowned OEMs for recycling companies. In 2017, CRJ identified a need for a mobile metal separation



system for sale and rental. CRJ contacted Steelweld, who already manufactured mobile chassis for a number of large OEMs. Steelweld designed the metal separation system with the help of CRJ and Bunting (Drum Magnet and Eddy Current Separator). The resultant mobile metal separation system was named the STROBE and features Bunting's Eddy Current Separator and Rare Earth Drum Magnet.

CRJ Services presently operates eight STROBE Mobile Metal Separators in their hire fleet and is the official distributor of Steelweld Enviro's equipment in both the United Kingdom and Ireland.

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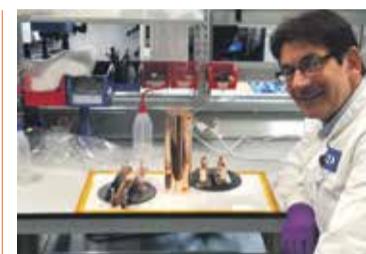
TMD provides innovative accelerator structures

TMD Technologies Limited, (TMD) world-class, West London based manufacturer of hi-tech microwave and RF products, has won a contract to produce the latest CERN prototype CLIC accelerating structure.

TMD has long been associated with the supply of RF components to CERN, and this latest, prestigious order is the result of this successful relationship.

Engineering to the 'width of a human hair'...

The Compact Linear Collider (CLIC) Collaboration involves the development of a next generation electron-positron collider that could serve as a 'factory' for mass producing Higgs Bosons. The key elements of the CLIC design are the accelerating structures, which need to produce an electric-field



gradient of up to 100 million volts per metre to accelerate the electrons and positrons (antielectrons) to high energies within the shortest distance possible – in this case about 7km for a collision energy of 380GeV.

Each accelerating structure is made from high-precision copper disks stacked and high-temperature bonded to form a monolithic block to which additional components (couplers, cooling channels and flanges) are subsequently brazed.

One particularly tricky aspect of the complex procedure is to maintain the alignment of the disk-stack to much better than 100 microns (approximately the width of a human hair) across its 26cm length during the assembly and brazing processes.

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Waterblade joins online innovation portal to boost transition to net zero

Waterblade water saving mod for washroom taps has been chosen as an innovation partner for a new self-service, interactive and intelligent marketplace for sustainable technologies.

The Wates Innovation Network (WIN) portal is the first initiative of its kind and has been created by the Wates Group, one of the UK's leading family-owned construction, development and property services companies, to help businesses 'build back

better'. The portal will connect companies directly, and free of charge, with partners that can offer solutions to help meet sustainability targets. It aims to create an industry leading network that will accelerate the transition to net zero by showcasing smarter solutions to design, construct and maintain buildings.

Waterblade has been providing its products since 2015. As an innovation partner Waterblade will feature on the WIN portal alongside 41 other

suppliers approved by a screening panel including 40 environmental experts. Users can filter sustainable innovations based on their requirements to find the product and supplier most suitable for them.

The new online portal will enable businesses seeking water and energy usage reductions to connect with businesses directly and better support them in providing tangible environmental and operational savings. Waterblade has been



proven to half water and energy consumptions without compromising on performance.

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In Subcon Drilling we trust



Subcon Drilling Limited is a highly professional company whose entire experience and energy is focused solely on five main processes gun drilling, deep hole drilling, honing, CNC machining and superfinishing.

Established in 2000, based in Hemel Hempstead, Hertfordshire, Subcon Drilling has a combined knowledge and extensive experienced workforce of over 30 years. Subcon Drilling continually provides a professional and personal approach with total dedication to quality to a list of long serving clients.

In terms of specific processes, Subcon Drilling maintains a varied selection of expert processes. CNC turning is an intricate and detailed method of creating custom parts and components using a Computer Numerical Control lathe. Turning is a highly skilled, precision engineering process. Gundrilling is a deep hole process using carbide cutting tools to produce holes in metal at high depth-to-diameter ratios. Milling is a process performed with a machine in which cutters rotate to remove material from the work piece. The honing process produces a bore to the required diameter and geometric cylinder and greatly improves the surface finish of the bore.

Subcon Drilling understand the unique requirements of each specific industry, and tailor its services to suit. Furthermore, with over 43,212 jobs complete, Subcon Drilling's has demonstrated its true dominating industry presence, expertise, and reliability. What do motorsports, marine, aerospace, defence, power generation, oil and gas, mould manufacturing and medical sectors all have in common? They all trust and work with Subcon Drilling.

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MADE IN BRITAIN

STL secures funding for innovative EVBus project

Samuel Taylor Limited (STL) has been awarded Innovate UK funding as part of the recent 'Catalysing Green Innovation: Securing the Future of ZEV' competition.

Innovate UK is part of UK Research and Innovation (www.innovateuk.ukri.org).

EVBus is an Innovate UK collaborative project between STL and TWI Ltd, aiming to investigate an innovative Copper to Aluminium bonding technique for use in zero emission vehicle (ZEV) busbars.

Joining copper to aluminium would allow for light-weighting of electric vehicle (EV) busbars, while maintaining electrical properties. Busbars are an integral part of EV battery packs. Improving the busbar can lead to lighter packs, therefore extending the range of ZEVs.

Successful bonding will allow the resulting product to be laser welded to parent copper or aluminium, thereby solving the issues currently associated with laser welding dissimilar materials.

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The goals of the project are to investigate the feasibility of bonding Copper to Aluminium directly or using interlayer materials.

This work will inform the industrial process feasibility and development being undertaken by STL. STL aims to use this process to manufacture and market busbars for electric vehicles (EVs) and ZEVs.

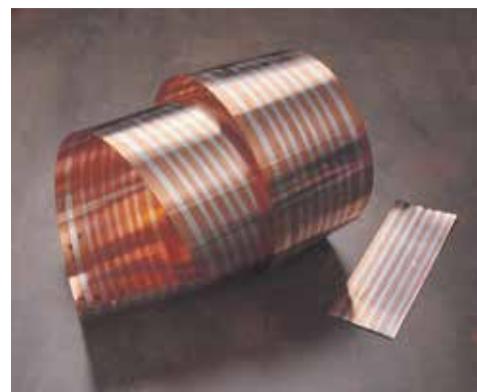
STL Sales & Marketing Manager Carl Siviter comments, "STL are delighted to be working alongside TWI Ltd on the EVBus project."

STL's expertise in providing specialist busbars for EV and ZEV represents a significant area of potential growth for the company. STL already has an in-house rolling facility manufacturing Silver to Copper bonded bimetal, supplying many tons of strip for fuselink applications each year. There is a significant challenge in producing an Aluminium product range, but success in this technology will assist in developing the lighter, greener vehicles of the future.

Last year, Redditch based metal contact and precision stamping specialists STL announced a significant contract win to support vehicle electrification, a first for the company.

Following this, STL and TWI Ltd were selected alongside two other leading low carbon technology innovators to participate in the UK pavilion at The Electric & Hybrid Vehicle Technology Expo at the Messe Stuttgart, Germany. The pavilion is managed by the Advanced Propulsion Centre (APC), in partnership with Department for Business, Energy & Industrial Strategy, Department for International Trade, SMMT and Innovate UK.

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Universal Spindle Milling and Gundrilling Machines



To help mold makers achieve the highest levels of milling and deep hole drilling productivity, UNISIG introduces two new models to its successful USC-M series – the USC-2M and USC-3M. The new 2M/3M machines handle the rigors of both milling and gun drilling metals of all types, but do so with a single, powerful universal spindle. Both models feature rigid, robust frames along with their universal spindles for the toughest applications, all of which helps mold makers minimize machining time and maximize throughput. Mold makers require world-class milling capabilities and accuracy, which is why the new USC designs emphasise rigidity and stability. With CAT 50 spindles up to 40 horsepower, these machines deliver high-torque milling capabilities for aggressive metal removal and shorter cycle times.



"We believe mold makers will truly benefit from the machining capabilities of these two new models," said

Anthony Fettig, CEO of UNISIG. "By introducing a pair of universal spindle options, we now offer manufacturers of all sizes a complete line of mold making solutions. The new machines exemplify a continuation of our commitment to meeting customer needs without compromising on quality or accuracy."

Thanks to the single, universal spindle designs of the USC-2M and 3M, mold makers will significantly reduce changeover times when switching between gun drilling and milling operations. Additionally, a 60-position automatic tool changer helps further minimize non-productive time. Both models have the capability to run oil and watersoluble coolant as well. For further time and cost savings, the USC-2M and 3M feature fully enclosed machining envelopes that are installed above the shop floor, allowing customers to avoid time-consuming, costly below-ground installations.

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Across every industry, manufacturers are working to meet growing customer demand in a globally competitive market

Despite a widening skills gap, by organizing advanced technology into highly optimized work cells, manufacturers are maximizing productivity through automation.

Specialized equipment, like a deep-hole drilling system, often is challenging to integrate, which quickly can create production schedule bottlenecks. To eliminate the risk, shops that perform deep-hole drilling should seek out OEMs that understand the needs of high-production manufacturers and have the capabilities to bring technology into the factories and work cells of the future.

Deep-hole drilling systems, which can produce holes that exceed a 20:1 depth-to-diameter ratio, are a unique class of manufacturing equipment because of the focused tasks they conduct. An increasing number of machining centers boast deep-hole drilling capabilities, but these machines simply cannot operate at needed speeds, particularly for parts that require exceptionally high accuracy. Manufacturers that must perform deep-hole drilling capable of rapid production and high throughput should instead select machines designed for the task.

Automating holemaking

These shops increasingly opt for deep-hole drilling systems that also work with automation. In a typical deep-hole drilling work cell configuration, such as one for producing rifle receivers or automotive shafts, the equipment can use automation to time its cycle completion to mesh with other production processes. For straightforward automation, conveyors and pick-and-place robots move and position parts for deep-hole drilling with exacting repeatability and accuracy while automatic toolchangers, doors and inspection stations keep parts moving swiftly into, out of and around the cell.

Because deep-hole drilling tends to apply to long, cylindrically shaped parts, workpiece configuration eases or complicates some aspects of automating load-in and load-out cycles tied to drilling operations. Workholding axes, for example, can provide automatic part gripping with pneumatic or hydraulic chucks operated through advanced controls for deep-hole drilling systems. In this configuration, machines can pick up a part, drill it and set it back down on a conveyor or part collection area. In deep-hole drilling systems themselves, specialised designs also offer automatic chucking, while robot-tending systems can add further flexibility with end-of-arm tooling, workholding and measuring systems.



As the automation configuration grows more complicated, however, manufacturers require an OEM that can act as a collaborative partner to find available solutions or engineer individualized products for unique applications or production lines. Shops that depend on deep-hole drilling as part of a high-production environment should seek a partner that has a demonstrated record of working directly with manufacturers to modernize processes and create robust automated work cells.

Gundrilling application

UNISIG, for instance, worked with a manufacturer of rifle barrel receivers to help it accommodate growing demand and relieve production bottlenecks. The manufacturer's older gundrilling machines were replaced by a multiple-spindle machine, the UNI25HD. It had the power and controls necessary to apply indexable gundrilling tools, significantly improving feed rates.

To enable fast one-piece-flow manufacturing, UNISIG integrated the system via automation for in-feed, pick-and-place, conveyor loading and automatic clamping, which fed two lathes that turned the parts. The result was an effective work cell that produced more than 100 parts an hour, a dramatic financial and process improvement.

The viability of automated deep-hole drilling production can depend on tool life and part length. At extreme depths, for example, some parts require more than one set of inserts to produce a completed hole, and the high



level of hardness of some workpiece materials causes rapid tool wear. To overcome this challenge, UNISIG programs its machines to detect wear and predict when a tool will reach its breaking point, allowing operators to prevent a failure that could stop the line.

For further process efficiency, deep-hole drilling machines should have either a CNC or programmable logic controller. Both can integrate with other control systems and interface with a controller in the work cell. Systems such as a fully

automated barrel cell are capable of unmanned, lights-out production with efficient programming.

Deep-hole drilling equipment's application-specific configurations suit the production of parts that necessitate techniques and processes that go beyond the easy capabilities of general-purpose equipment. In years past, many manufacturers thought of this kind of specialized equipment as old-fashioned and a drag on production. But with the right equipment – and a partner with the right engineering and applications expertise –

deep-hole drilling in work cells can keep up with the productive factory environment that manufacturers need to succeed.

UNISIG is also exhibiting at the EMO Show in Milan, Italy from 4-9th October 2021.

Further information on all machines of the B Series and the complete UNISIG machine program is available at www.unisig.de or follow the company on LinkedIn and Twitter (@UNISIG).

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Renovotec launches Mobile Computing Initiative at Intralogistex 2021

Supply chain hardware, software and services market leader Renovotec has chosen IntraLogistex 2021 to launch a mobile computing initiative for supply chain users. It is introducing 'Operational Intelligence,' a smart asset management system that tracks, manages and optimises the performance of all mobile computers across an organisation,

in all locations and throughout their life cycle, delivering competitive edge, reducing tech costs and streamlining IT processes say Renovotec.

The cloud-based system's analytics provide actionable insights in real-time to avoid unnecessary spending on

additional equipment and ensure that mobile devices in the field are ready for use. Operational Intelligence supports all major operating systems and mobile computing brands.

Renovotec's initiative at the event supports a key trend as according to the latest research from analyst IDC, CIOs must:

'Develop strategies and plans for a programmatic approach to enterprise intelligence, and begin building needed IT capabilities'

Event-only mobile computing offers

As part of the same mobile computing initiative, also featured on the Renovotec IntraLogistex Stand 306 are event-only special offers on Honeywell CK65, CT40 and CT60 mobile computers.

The Dolphin CK65 mobile computer boosts supply chain productivity by accelerating and error-proofing work in distribution centres and manufacturing say Honeywell. With the longest supported lifecycle, up to 28-hour battery life and best-in-class ruggedness, the CK65 maximises productive uptime while providing an easy path for users migrating from legacy Windows operating systems to the Android platform.



The Dolphin CT40, built on Android and Honeywell's Mobility Edge platform, is a sleek, enterprise-class, full-touch device for retail, logistics and distribution applications, designed to speed workflows and also built to remain to date over a long-life span.

Honeywell's Dolphin CT60 mobile computer is designed for enterprises that need anywhere, anytime, real-time connectivity to business-critical applications and fast data capture capabilities in a rugged form factor, built for maximum uptime and productivity according to Honeywell. Juggling multiple devices across the enterprise introduces time and cost intensive complexities for enterprise IT to manage and maintain. The Dolphin CT60 is the first device to launch in a series that enables users to accelerate the provisioning, certification, and deployment of mobile solutions across the enterprise, simplify overall lifecycle management, and extend the product lifecycle.

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In addition to this, Palamatic also keeps spare parts in stock for standard systems.

The equipment range can cover solutions for handling sacks, drums, IBC's, boards, pallets and boxes and can be specified for the area it will be located including industrial, food, fully cleanroom and ATEX. Systems are manufactured in stainless steel and designed using robust

high quality components. Palamatic's design team work closely with customers to provide a solution that works for

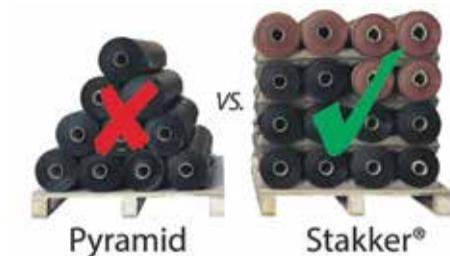
the operator rather than selling off the shelf systems.

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Electric Utility Vehicles, a star in the rising

Electric power, it's a hot topic and rightly so. There's no reason why transportation shouldn't be predominantly all electric in the next ten years, but you need the right products to make that a reality which is where STAR EV steps in.



This rising brand from an award-winning company launches in the UK with a comprehensive range of 28 lithium and sealed battery-powered utility vehicles. Leading technology, world-class innovation, breadth of range, strong value proposition and peak performance, STAR EV has it all.

All the small, medium and large capacity electric UTVs for transporting 4-22 people or carrying materials have the following in common: rapid charge, a good mileage per charge, an extensive warranty – up to six years – along with the usual no more emissions and no more pollution stance. It's no surprise that STAR EV has taken North America by storm.

Decision-makers and procurement officers will note the fact that some models are road-legal for city use in food delivery applications, around compounds such as Ministry of Defence sites and prisons, and in retail and warehouse sites, among many. Wherever there's the need to move anything, product or person, from A to B in the efficient and green way, the range from STAR EV is it.

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Pipe Repair and Maintenance Specialists

In this issue of Industrial Process News, we have chosen Sylmasta as our Pipe Maintenance Company of the Month.

Sylmasta is an industry leading manufacturer of pipe repair solutions. Providing an array of specialist pipe maintenance and repair solutions for infrastructure operators, utility suppliers, multinational corporations and government departments, as well as small businesses and individuals.

Simon Bedding, Sylmasta's Managing Director said, "The company was established over 30 years ago and branched into the maintenance and repair industry about 20 years ago. We manufacture at our site in West Sussex, including a world-leading pipe repair composite production facility."

Sylmasta provides pipe repair solutions for companies on a global scale and to a multitude of different industries including water management, wastewater treatment, nuclear power, petrochemicals, construction, quarries, hotels and leisure, food and drink production, and agriculture.

Simon stated, "Our products are all tried and tested and we operate with short lead times. We provide a complete



solution for customers and our products are capable of repairing most types of pipe leak. We work closely with our customers and provide quick technical support and customised solutions for particularly challenging repairs."

"We often get contacted by clients who have tried numerous other repair methods which have been ineffective or who have a repair where there is no obvious solution other than replacement. Using a composite solution allows us to save them considerable sums of money by avoiding replacement and shutdowns."

One notable product in Sylmasta's range is the SylWrap Pipe Repair Contractor Case. Scott McCarthy, Sylmasta's Marketing Manager said, "The Contractor Case contains enough pipe repair products to make up to six WRAS approved live leak repairs to pipes of all types and diameters. The repair is a two-stage process; you seal the leak using either Superfast Epoxy Putty if pressure can be turned off, or Wrap & Seal Pipe Burst Tape if pressure cannot be turned off."



Scott continued, "This initial repair is then overwrapped with a SylWrap HD Pipe Repair Bandage, a water-activated composite repair wrap which sets rock hard in minutes to reinforce the sealing material. Repairs can be made that are pressure resistant up to and above 30 bar and no formal training is required – the user simply follows the instructions provided."

The Contractor Case offers a lower cost per repair compared with alternative repair methods such as pipe clamps. It ensures that contractors have everything they need to fix live leaks and bursts as soon as they occur, with the robust red case conveniently stored either on-site or on a van.

"Several of the United Kingdom's water companies have approved the case to be carried on their vans for making live leak repairs to the public supply network." Scott continued, "The national water supplier in Malaysia have also approved

it for use on Kuala Lumpur's vast pipe network. Away from the water industry, we have seen a positive uptake from facilities management companies, including those responsible for maintenance and repairs in hotels and leisure facilities."

Offering its services on a worldwide scale, Sylmasta is dedicated to improving and strengthening its overseas markets. We spoke with Simon about the company's future plans, he explained that, "We plan to grow our technological base and expand our network to grow our overseas distribution network. We are already supplying to industry in many countries including: South Africa, South America, and companies in Asia, so we are already internationally focused. We intend to grow upon this and strengthen our network of international distributors going forward by providing new innovative pipe repair and maintenance products."

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Industrial Research Company of the Month

A striking advancement in weather sensor technology



Industrial Process News is proud to announce that Biral has been awarded our Industrial Research Company of the Month.

Located in Portishead, near Bristol, Biral design, manufacture and distribute high quality meteorological sensors used by professional weather specialists worldwide. Specialising in the professional meteorological sensors sector, Biral effectively, in short, measure the weather. Part of the work they do is to work alongside local Universities to assist in the commercialisation of novel measurement techniques. A prime example of this work is the aerosol optical tweezers which was a design collaboration with Bristol University and their world-renowned aerosol research team.

Established in 1975 by Alan Cussens, Biral became a leading UK distributor of scientific instrumentation in aerosol science, meteorology, fluid mechanics, filter testing and environmental monitoring. In 1993, a contract with the UK Ministry of Defence arose to develop specialist biological warfare agent detection equipment. The aerosol technology used in these contracts was developed in collaboration with the University of Hertfordshire and lead to a range of



commercial aerosol monitoring instruments. By 1997, Biral acquired market leading visibility and present weather sensor technology from US company, HSS Inc. This led to the manufacture of its own meteorological sensing devices, strengthening its market share. Leading up to 2009, after lengthy development and exhaustive testing, the SWS range of visibility and present weather sensors launched. These sensors proved highly successful and established Biral as a leading manufacturer within this market.

Biral prides itself on its high levels of customer service which is what sets them apart from competitors. "All our

actions are led by the desire to provide our customers with the solutions they require," explained Nathan Neal, Sales and Marketing Director. Nathan went on to say, "We offer the widest visibility, present weather and lightning detectors of any manufacturer. As we have developed these over the last 20 years, we can therefore offer the best price and performance ratio for any given application. From a straightforward visibility sensor for fog detection, warning at ports, on the road network and all the way up to a highly specified present weather sensor used at national and international airports."

And if that wasn't enough, Biral offers the best warranties in its sector with most products having a three or five year as standard. These can also be extended up to 10 years which shows the reliability of its products.

One product Biral is particularly excited about is its latest and most significant new product release. The BTD 200 is an easy-to-use self-contained lightning warning system. Specifically designed for sporting and leisure facilities, as well as at industrial sites or in meteorological applications. "The Biral 200 comes with a comprehensive server software package which alerts the user to the threat and to the location of the lightning storms up to 35km away. Being aimed mainly at non-professional users, we have installations in golf, cricket and football stadiums, helping to



protect the grounds staff and the public," mentions Nathan.

As an organisation entirely guided by its customers' needs, Biral has supported the industry through the COVID-19 pandemic. "We have had to adapt our working conditions. Biral is 95% export based so with most international travel being restricted; we have adopted new approaches via video calling with clients and partners. The success of this means we will carry this adaptation into the future," said Nathan.

Biral always aims to be 'Visibly Better', and to support this, Biral has recently doubled its manufacturing capabilities to support its plans for future expansion and upcoming product developments. As Biral operate in a very niche sector, fortunately it has very few major worldwide competitors. Therefore, it can take advantage of this and significantly increase its product innovation and development in its niche applications. The next few months and years look extremely exciting for Biral, as they plan to move into new sectors.

For more information, head to the website or get in touch:
T 01275 847787
enquiries@biral.com
www.biral.com



AUMA's new smart PROFOX actuators

PROFOX from AUMA UK Ltd is its new high-performance actuator series, incorporating a number of innovative new features and an excellent cost-benefit ratio. Aimed at applications requiring fast and precise positioning, utmost flexibility and future-proof interfaces, the smart and compact

PROFOX series is suitable for all industry sectors, including water treatment, combined heat and power plants, process industries, and shipbuilding.

Built-in intelligence makes PROFOX equally suited to both

simple open-close duty and challenging modulating applications. Motor speed is adjustable, ensuring fast and precise positioning without overrun. Soft start and soft stop functionality increases valve lifetime. Operating costs are low, thanks to high mechanical efficiency and low standby

consumption. Innovative diagnostics ensure long-term availability and future-proof PROFOX actuators for IIoT applications.

AUMA PROFOX actuators work with gate, butterfly, ball and globe valves. There are multi-turn versions for torques of 10 – 100Nm and part-turn versions delivering 32 – 600Nm. A linear actuator will follow soon. Modular design ensures flexible configuration, rapid delivery and consistent operation. Host system integration is equally flexible; PROFOX actuators support the most common communication protocols and are well prepared for future evolutions. Compact design allows PROFOX actuators to fit tight spaces.

The PROFOX series is engineered and built in Germany and designed to last, even under the toughest process conditions. High-quality metal housing with IP67 protection (IP68 optional) and AUMA's unique corrosion protection, which meets the highest C5-M/C5-I requirements of EN ISO 12944-6, ensure that PROFOX actuators have a long life at temperatures from -30°C to +70°C.

PROFOX actuators are simple and easy to use. Installation and commissioning are fast and convenient, using either the integral pushbuttons or an intuitive app. The FOX-EYE indicator light and a position indicator on the housing clearly show the actuator status at any time.

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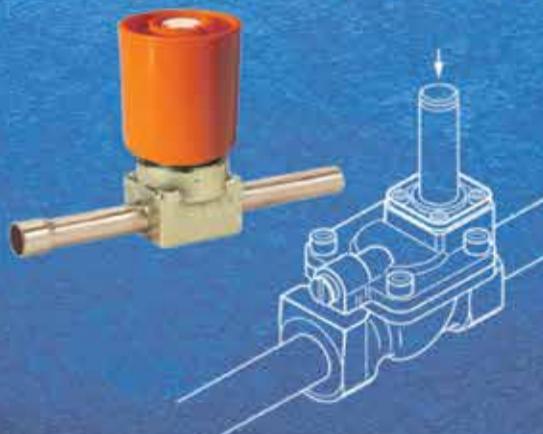
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The Magnetrol TA-2 Thermal Dispersion Mass Flow Meter

The First choice for Energy Management Flow Applications

The ability to better monitor combustion air, fuel gas flow and compressed air can help identify losses that over short periods of time can affect a plant's profitability. The two key phrases when discussing instrumentation for the aforementioned are 'cost effective' and 'return on investment.' Thermal dispersion uncovers the benefit in the shortest timeframe possible at the most reasonable cost.



Thermal mass flow meters are primarily used in air and gas flow measurement applications. The meters consist of a transmitter and probe with temperature sensors (RTDs) located in the pins at the bottom of the probe. As the flow rate increases, heat gets taken away from the heated sensor. More power is then applied to the heated sensor to maintain the temperature difference.

Combustion air flow measurement to a boiler maintains the stoichiometric ratio by the amount of fuel being supplied. Too little air flow can result in incomplete combustion along with additional carbon monoxide or pollutants. Alternatively, too much air flow can cool the furnace and waste heat via the stack. The repeatability of the air measurement obtains the most efficient air-fuel ratio (AFR).

Measuring fuel gas flow (natural gas or propane) usage to individual combustion sources compared to the output (steam/hot water) can help optimise boiler efficiency and better manage energy consumption. Knowing individual boiler performance and lowering fuel consumption is one of the easiest methods to reduce cost and improve profits.

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[https://www.able.co.uk](http://www.able.co.uk)

Preventative maintenance: Why use a cleaner hydraulic oil?

AS MODERN machines have evolved, so have lubrication systems and, as the oil film between system components is only a few microns thick – invisible to the human eye – it is essential to control and monitor contamination effectively, explains CP Lubricants.



Today, increasing demand is put upon lubricants in terms of operating temperatures, loads, efficiencies and performance. Studies have shown that up to 80% of oil related machine failures are caused by contaminated oil, so it is a fact that cleaner oil leads to longer component life and increased operational reliability. To maximise reliability, CP Lubricants suggests companies consider condition monitoring by scheduled fluid analysis.

CP Lubricants' HydroMaster Ultra range are certified to ISO Clean code 16/14/11 # at the point of production and the company can continue that code to the sump of your machines by the use of its dedicated decant system, where specialist transfer equipment is used.

The industry standard for the blending of hydraulic oil is 19/17/14, but the cleaner your oil, the lower your operating costs.

For more information on CP Lubricants' Ultra Range of Hydraulic oils and Certified Decant Service, call: +44 (0)2380 337800, email: sales@cplubricants.co.uk or visit: www.cplubricants.co.uk

Elektra: The remote pump-management solution for water-treatment applications

SEKO, a renowned designer and manufacturer of chemical dosing equipment, has developed Elektra, a digital pump controller featuring a built-in Wi-Fi hub that connect operators to their dosing pumps at any time no matter where they are through the unique SekoWeb app.

By accessing their pump equipment via SekoWeb, the operator can view live and historical data on demand relating to parameters such as flow rate and pressure, using the information to make immediate parameter

adjustments – all from any location via smart device.

With the power to make instant changes that improve efficiency, optimise chemical consumption and reduce environmental impact, this 24/7 connectivity makes Elektra an invaluable tool for operators working from home or for those responsible for multiple sites.

Meanwhile, alarm reporting means that faults can be identified early and maintenance arranged in advance, helping to minimise costly unplanned downtime.

Elektra is currently available for use with Spring series of motor-driven dosing pumps, with compatibility planned for devices across the SEKO range. SekoWeb is available both online and as a smartphone app, compatible with iPhone and Android devices.

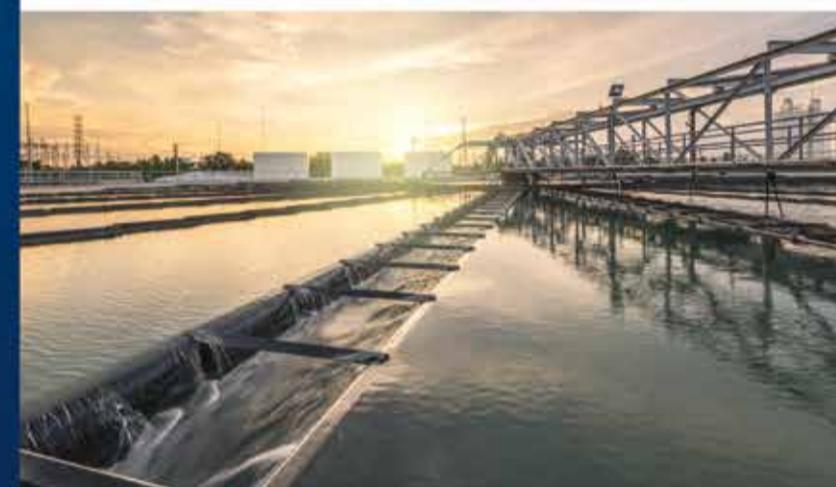
For more information on Elektra, SekoWeb and the entire SEKO water-treatment range, visit: www.seko.com



sekko

Elektra

Connecting you to your chemical dosing pumps, wherever you are



SekoWeb
Data on demand

- Unlock multiple benefits including precise digital dosing, process optimization and cost control
- Make informed decisions swiftly with quick interpretation and comparison of data
- Identify faults early and minimize costly unplanned downtime
- Achieve the delicate balance between performance and sustainability
- Local and remote access to your equipment via smartphone

Your Choice,
Our Commitment

The smart choice for motor-powered dosing

The Elektra digital dosing pump controller from SEKO allows you to monitor and manage your dosing equipment 24/7 via smartphone for a new standard in operational efficiency and accessibility in water-treatment applications.



www.seko.com

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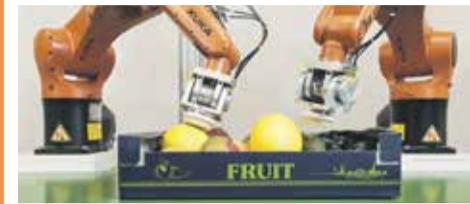
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Everything we build is backed by first-class technical expertise and professional aftersales service. We know time is money, so our fast and accurate technical responses give our customers access to essential information immediately.

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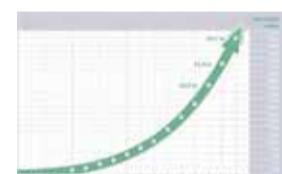
- **LARGE RANGE OF PRODUCT TYPES:** We can provide bespoke end effectors to handle labels of different shapes and sizes. Product size can vary from 50 x 50 x 5mm to 450 x 400 x 400mm.
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Over 100 million PROFIBUS and PROFINET devices in use

PROFINET has beaten all previous records



Despite challenges brought about by the pandemic, products featuring technology from PROFIBUS & PROFINET International (PI) have been very well accepted by users. With the total number of PROFIBUS and PROFINET products so far installed at plants has exceeded 104 million, an impressive threshold has been crossed.

On a yearly basis, PROFINET has beaten all previous records with a total of 7.3 million products placed on the market. The number of installed PROFINET devices rose by more than 22% in comparison to the previous year, reaching a combined total of 40 million. In 2020, a total of 1.7 million PROFIBUS devices were placed on the market, of which 0.8 million were used in process industry applications.

...and so has IO-Link

As for IO-Link, 5 million devices were supplied in 2020 – the largest number of any year so far. Even in tough times, IO-Link managed to achieve a growth rate of 31%, which proves that the technology is firmly anchored in the applications. The total number of installed IO-Link devices is now more than 21 million.

PROFIBUS still favoured in Process applications

Over the past few years, the percentage of PROFIBUS products installed in processing plants has continually increased. It is expected that the majority of PROFIBUS products supplied next year will be utilised in process automation plants. In production technology, meanwhile, around four times as many devices have been equipped with a PROFINET interface than a PROFIBUS interface.

Find out more about these technologies at our upcoming UK event in Birmingham:
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Changing times at Thorite

Thorite announces recent changes to their senior management team after long-standing Sales Director, Alan Donkersley recently retired from the business.



Thorite's senior management team now consists of Mark Yates, replacing Alan Donkersley as the new Sales and Marketing Director, with Richard Oldale joining Thorite as Capital and Aftermarket Director.

Before joining Thorite two years ago, Mark had spent around thirty years in senior roles in the compressed air industry and Richard has worked for some of the world's largest compressor manufacturers, both developing sound reputations for sales and customer service management.

On the managerial changes, Stephen Wright, Managing Director of Thorite said, "I want to thank Alan for his many years of dedicated service to Thorite and we wish him all the very best for his well-deserved retirement."

"Alan has been pivotal in many of our initiatives, including growing our business and industry reputation and, most recently the move to our brand-new Bradford headquarters. The new management team is now in place to build upon this success by capitalising on the investments that we've made."

"Together with our hugely experienced teams supporting Mark and Richard, customers can continue to expect the highest levels of quality and service from us and can look forward to more exciting developments in the future."

For more information, please visit: www.thorite.co.uk

100 years of business for Kingston Engineering



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.

With a history dating back to 1919, Kingston Engineering has specialised in manufacturing right Hand/left Hand, single/multi-start, cut thread Power Transmission Screws and Nuts for over 60 years. Adaptable for mechanical power transmission, their products conform to the standards of British, European and American requirements. All of Kingston's products meet ISO 9001-2015 accreditation and are examined thoroughly during the manufacturing process.

Kingston Engineering's screws can be used in a range of applications across multiple industries, including aerospace, oil and gas, nuclear energy, the chemical and medical fields. The company works closely with both suppliers and end users to provide the best purpose-built screws possible, with customers across the UK and the US.

The current directors have more than 100 years of experience between them and are continuously engaging in plans to help the company become global leaders in screw manufacturing.

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Assentech is on a mission to help the tank storage industry reach net zero emissions. A leading innovator of new technology and services that detects and prevents fugitive emissions. Our new devices raise awareness and demonstrates the consequences of inferior quality or poorly maintained equipment in the tank storage industry. Assentech can visualise leaks with Optical Gas Imaging cameras. We can also run functional testing of breather vents to establish leakage rates using the test criteria stipulated in the industry Standards of API2000 and ISO28300. Designed and manufactured by Assentech, the automated 'Vent-Less' Test Bench revolutionises testing to support manufacturers, service companies, regulators and



end users on monitoring breather vent performance which ultimately reduces emissions for a clean and sustainable future.

Storage tank vents are simple devices. The function of these devices is generally poorly understood. This has opened the door to low quality cheap devices flooding the market.

Now with the world's focus on the environment operators and the Regulators are looking for ways to reduce fugitive emissions.

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AEV secures major UK Government research contract

AEV, a manufacturer of electrically insulating resins, varnishes and compounds, has won a project bid as part of a Government assisted scheme from the Advanced Propulsion Centre (APC).

The Advanced Propulsion Centre (APC) provides funding support to accelerate the industrialisation of technologies which will help to realise net-zero emission vehicles within the automotive sector.

AEV will be working on the project alongside Saietta a specialist in propulsion motors for Electric Vehicles (EVs) and Brandauer a leader in precision stamping and progression tooling.

Saietta has engineered a breakthrough in propulsion motors for electric vehicles (EVs).



The company's Axial Flux Traction (AFT) design is patent protected and modular, meaning solutions can be provided from scooters to buses.

The global reaction to AFT has been extremely positive across multiple EV product sectors and beyond into marine and wind turbines. To fully capitalise on the commercial opportunity, it is vitally important that Saietta fast-tracks the AFT technology to mass production.

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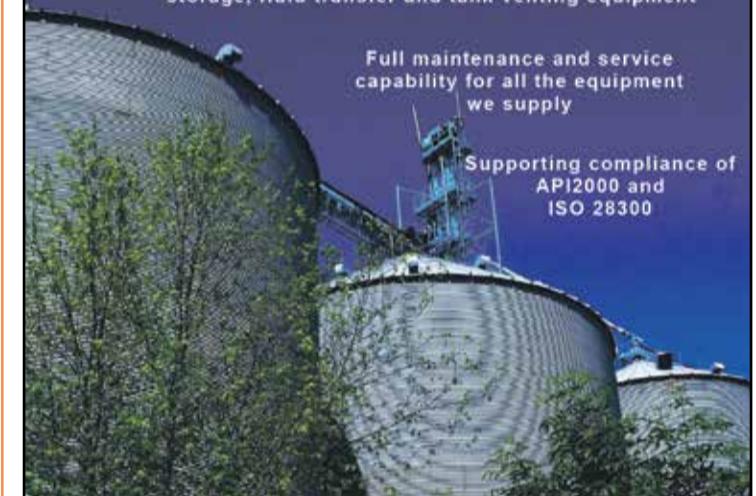
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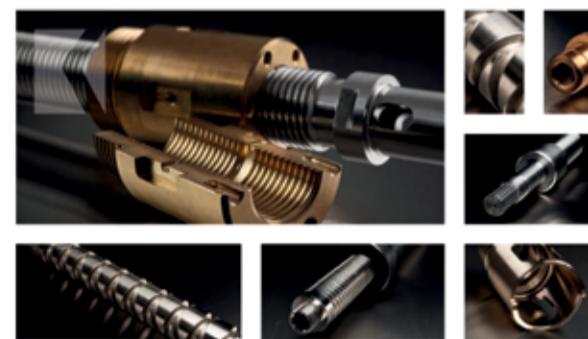


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New AZM40 solenoid interlock with UL certification

The new compact AZM40 solenoid interlock now has UL certification, which means that it can be used in machinery and systems intended for the North American market. In addition, Schmersal has optimised the interlock as well as developed additional versions that incorporate specific customer requirements.

The new development has generated considerable market interest thanks to its compact 'on-trend' dimensions. With dimensions of 119.5 x 40 x 20mm, the AZM40 is the smallest



electronic solenoid interlock in the world. The AZM40 is the ideal safety solution for all machine builders looking for optimisation through miniaturisation, simplification and minimisation of materials.

New enclosure versions

The AZM40 solenoid interlock and actuator are available in two enclosure versions. For typical use in mechanical engineering, there are enclosures with a flat, screw-on surface for cylinder-head bolts. For

visually improved installation and where space saving is a priority, there is a version with countersunk tapers for countersunk bolts.

Low-energy safety solution

The AZM40 operates to a bistable holding principle. This means that it maintains its locking position and securely holds the guard door in the event of power failure, thereby preventing hazardous run-on movements.

Contact Steve Watkins,
Marketing & Business Development,
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Environmental Science Group Limited (ESG) introduces Palm Tree Ethanol

For four decades, ethanol has been the fastest growing renewable fuel on the planet. It is an essential energy product. Particularly since 2020, among its multiple uses, many ethanol production plants provide high grade ethanol for hand sanitisers and disinfectants.



As part of its growth strategy, and as a result of extensive R&D, ESG has added to its products portfolio a high-grade ethanol containing more than 95% alcohol content. Ethanol is an essential ingredient used in consumer products including alcoholic beverages, personal care products, hand sanitiser, cleaners and pharmaceuticals.

ESG based in March, Cambridgeshire is pleased to launch a new product line under its brand name 'Palm Tree.' This is a premium-quality alcohol which is naturally sourced primarily for the pharmaceutical and medical/healthcare industries. This places Palm Tree ethanol among the most environmentally-friendly premium grade alcohol products on the market.

Palm Tree ethanol is available in container sizes ranging from 100ml to 250L. Delivery of the ethanol can be completed within 72 hours of receiving an order and full payment. For further details, please visit their website at: Palm Tree Ethanol (Ethyl Alcohol) – Environmental Science Group or ESG (www.envsciencegroup.com)

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Make a choice to take maximum control of hygiene

Introducing from Kimberly-Clark Professional the improved wipe to complete the WypAll® Wettask™ Roll Wiper Dispenser System. This system is designed for maximum control of both hygiene and cost efficiencies. Today, protocols that maintain clean, hygienic surfaces have never been more important for premises. Facility managers of high traffic venues are especially under pressure to make the right choices for the safety of visitors, customers and employees. For example, a recent industry survey revealed that only 17% of office workers feel very confident in the hygiene practices like surface disinfection in their workplace.



Launched as part of the Kimberly-Clark Professional 360 Hygiene & Protection programme, WypAll® Wettask™ System is ideal for the disinfection of frequently touched surfaces because it gives you control. The system enables the user to manage sheet saturation for maximum effectiveness. Users can customise each clean by adding to the bucket the wipe and disinfectant of their choice. They also control the strength and quantity of the disinfectant or sanitiser for optimum hygiene.

WypAll® Wettask™ Roll Wiper Dispenser System is a hygienic option for any facility. With single-sheet dispensing, users only touch the sheet they use, from a fully enclosed system. Designed to reduce waste and costs, the portable, high-capacity system has 80% more sheets than the existing format requiring fewer refills. The bucket is completely reusable, reducing plastic waste compared to pre-saturated wipes.

WypAll® Wettask™ Roll Wiper Dispenser System is available now, for more information, visit here

www.kimberly-clark.com

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Cupio brings inspection solutions and services to the electronics industry

An effective inspection strategy is crucial to your manufacturing operation's wellbeing: field failures arising from defective or incorrect components take not only time and money to resolve, but also effort to repair your reputation.



But which inspection technology – or technologies – should you be using, and who are the best vendors? And would outsourcing some of your requirements to a third-party inspection service provider sometimes be more cost-effective than committing to capital equipment and its learning curve?

As the leading specialist supplier of inspection solutions throughout the EMEA region, Cupio can solve these questions for you. We cover all the key technologies, offering equipment where appropriate, and inspection services otherwise. We can review your manufacturing facility and existing inspection resources with you, and offer a complementary solution to fully cover your particular inspection needs.

Our portfolio, which covers optical inspection, X-ray systems and C-SAM Scanning Acoustic Microscopy, is based on Nordson's world-class range of equipment and solutions.

Optical inspection

We have optical inspection systems for both PCB and microelectronic devices, which offer exceptional defect coverage. Nordson YESTECH's FX 940 in line automated optical inspection machine offers high-speed PCB inspection, while the FX 942 resolves post wave or selective solder issues. The Ultra 3D system brings advanced 3D technology to high-speed PCB inspection. The LX-100 is an advanced multi-purpose, large area, double-sided PCB inspection system that



Smart triaxial ICP accelerometer with M12 connector

PCB Piezotronics presents Model 630A91, a precision triaxial ICP/IEPE accelerometer with a top exit M12 connector. The product is developed for space-constrained installations that require an accelerometer with a vertical run of cable but do not have room for a 90° turn from a straight connector. The case isolated sensor housing is made from stainless steel to withstand ruggedised environments and is also available for use in hazardous areas.



In summary, the product features the ability to take simultaneous vibration measurements in all three orthogonal directions in one spot, saves space in mounting and uses a standardised M12 connector.

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inspects solder joints and verifies correct part assembly, enabling users to improve quality and enhance yields.

The FX 940 conformal coating system uses black light to check conformal coating coverage. Benchtop AOI and conformal coating machines are available, while the M1m Microelectronic AOI system offers high-speed microelectronic device inspection.

MXI and AXI X-ray

We offer both batch X-ray (MXI) and in-line X-ray (AXI) solutions. For batch inspection, the Nordson DAGE Quadra series goes beyond optical imaging, allowing non-destructive inspection of obscured areas inside devices and components at up to 68,000 times magnification. The Quadra 3 allows high quality, high magnification inspection for production applications, while the Quadra 5 provides advanced, sub μm feature detection and higher power output for more challenging workflows. With ultimate image quality and magnification, the Quadra 7 reveals quality defects as small as 0.1 μm .

Explorer One delivers the clearest X-ray images, with market-leading image quality. This allows quick and easy location and qualification of potential defects, and fast pass/fail judgements.

For in-line AXI X-ray applications, we offer the Matrix X3# and Matrix X2.5# for sophisticated high-speed inspection in SMT production, and Matrix X2# for high speed automatic inspection in production lines.

C-SAM Acoustic Microscopy

Some manufacturing processes demand non-destructive structural analysis and inspection of solid materials for internal features such as cracks, delaminations and voids. For these, we offer our Nordson SONOSCAN GEN7 C-SAM Acoustic microscope. Sonoscan is the most experienced source in Acoustic Microscopy for non-destructive internal inspection and analysis, and their seventh – generation acoustic microscope is ideal for laboratory analysis and specialised high resolution applications.

Service, training, and support

We are always happy to discuss which technology and machine will best fit your application. We can also propose our inspection as a service solution, or perform failure analysis in our inspection laboratory. We have ISO 9001-2015 approval, and operate a static-safe environment.

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Valve World Series new technologies

Monitoring valve health through IIoT

As the industry begins to explore the potential benefits of embracing plant level digitisation, the opportunity to significantly increase efficiency through effective condition monitoring of equipment is clear. With thousands of valves used on any plant being one of the primary causes for unscheduled production downtime, huge potential savings can be realised through effective performance monitoring.

Most plants already have one form of valve condition monitoring device installed, namely the smart valve positioner on control valves. However, few utilise or even realise the diagnostic capabilities of these instruments. Even where plants have tried to use positioners for condition monitoring, operational and knowledge limitations have only afforded minimal benefits. Where automation and instrumentation requirements are relatively low, as is the case with on/off valves that do not require the control functionality of a valve positioner, it can be difficult to justify the time and money involved with installing a smart positioner to provide condition monitoring information.

Unfulfilled potential

A number of companies have tried to develop bespoke systems for on/off valve applications but they can present the end user with other operational, financial and/or functional implementation issues. They are generally more costly than traditional feedback systems, can require installation of new wiring and hardware and can have software integration issues. Operationally, these solutions will typically require site personnel to 'harvest' data and trained personnel to



perform data review. These tasks will often be overlooked or performed un-systematically, resulting in the potential benefits of the system used to not be fully realised.

Imagine instead a cost-effective system that enables 'real time' reports identifying which valves need attention, to be delivered directly to your inbox or smartphone.

CMS for automated on/off valves: A wishlist

When asked what a CMS (condition monitoring solution) for an automated on/off valve should look like, most plant operators have common desires.

First, the system should be simple to install. This should apply to both new installations and, importantly, for retrofit applications as there are vast swathes of valves already installed that would benefit from condition monitoring.

Furthermore, the system should not require additional wiring. Installing new wiring infrastructure is very complicated and expensive and would make the case for fitting a system, especially in retrofits, difficult to justify.

Clear business case

To continue the wishlist, the system should be fully automated. Plant operations teams are busy people, and



tasking them with additional work, such as collecting data from valves, is not desirable. As such, any condition monitoring system should be capable of harvesting data automatically and sending it for analysis without the requirement for plant personnel to be involved.

Finally, the system should be an extremely cost-effective solution. In an ever more competitive economic environment, pressures on capital budgets are high. Therefore, any condition monitoring solution must be able to demonstrate a clear business case. This means keeping the additional pressure on capital project budgets to the absolute minimum whilst providing the operational cost benefits that condition monitoring offers.

VDMS

Imtex Controls, a valve automation and communication company based in the UK, has recently introduced a valve

condition monitoring solution targeted at the on/off valve market that addresses the implementation and operational demands that end users have.

The technology, called Valvescan Diagnostic and Monitoring System (VDMs), has been designed to provide clear condition data for automated on/off valves without tasking the plant level operations team with any additional work plan requirements or creating any potential to compromise plant safety.

The two core elements of VDMS are the Valvescan Field Mounted Device (VFMD) and the ValveHealth Diagnostic Application. The VFMD is mounted on the automated valve in the same way as a traditional limit switchbox. The field mounted device gathers data from every valve operation and transmits this data via a cellular network to the cloud. The VFMD is purely a datalogger – it does not have control capability – and is powered using existing wiring infrastructure to the valve. The datalogging and transmittal within the VFMD is done in parallel with the Plant Control System so that plant operations run exactly as they did previously.

Pro-active interventions

ValveHealth is a cloud-based application that receives data from the VFMD via the cellular network and analyses it automatically. The results of this analysis can be made available to authorised users in a web portal or shared with a wider plant condition monitoring platform as desired.

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To learn more about this product or any of the high performance sensors in the DD-Scientific product range, please visit: www.ddscientific.com for more information or contact: sales@ddscientific.com for a more personal response.

The new Addtel 673 Advanced Digital Pressure Calibrators

Chamois Metrology introduce the new ADT673 Advanced Digital Pressure Calibrators which include a smartphone like touchscreen



and graphical interface for a completely new way of interfacing the calibrator. The ADT673 Advanced Digital Pressure calibrators come with a built-in barometer and are available in pressure ranges from ± 2.5 mbar to 4,200 bar and come standard with Wi-Fi and Bluetooth wireless communications, as well as a type-C USB port and cable (RS-232 and 4-20mA output communications are optional).

Additel 673 calibrators provide an accurate pressure calibration solution for gauges, transmitters and switches. Each calibrator contains a built-in barometer sensor which allows for the pressure reading to display in gauge pressure or absolute pressure with a simple menu selection. The ADT673 series contains HART communication capabilities and can measure in mA, or V, and supply 24V loop power. It has a dual readout display showing the pressure on one display and mA, V or a pressure switch on the other display. Each calibrator comes with an ISO-17025 accredited certificate of calibration. It is compatible with Additel's Link mobile app and 9502 Additel/Log II software, which enables the ability to monitor and display the real-time pressure measurements in a table or graphically.

The Additel 673 Advanced Digital Pressure Calibrators are available now.

For more information, visit: www.chamois.net, contact us for a virtual or in-person demo on: 01926 812066 or email: info@chamois.net.

New: BFX3 Compact Clamp-on Flow Meters and Heat Meters

Quick and easy to install, even by non-trained operators, the clam-shell design of this range makes them a fast and reliable solution for non-invasive flow and/or heat measurement applications. As the sensor separation distance is fixed, there is no need for adjustment and once fitted they are not easily disturbed.



Features:

- BFX3 Flow models and BEX3 Heat Meter versions
- DN15 to DN90 (9 models)
- 24V DC Powered
- 4-20mA Output and optional Pulse Output, Alarm Outputs
- Modbus RS485 Communications
- No need for tubes of ultrasonic grease, rulers and marker pens
- Clean, hassle-free installation
- Pre-configured or In-Field adjustment possible
- Suitable for various pipe material: Copper, Plastic, Steel, Iron and Stainless Steel
- No moving parts or contact with the fluid
- Suitable for aggressive liquids
- Zero pressure loss imposed by this design
- Can be relocated
- Data logging and remote monitoring options available.

These budget friendly clamp-on flow meters utilise the ultrasonic flow measurement method ensuring quick and simple installation without the need to cut into existing pipe-work. It is not necessary to turn off the supply of water/liquid to install the product.

Clamp-on Flow Meters without the fuss:
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New features and improvements to popular cone and plate viscometer

After much research and listening to valuable feedback from a host of customers worldwide and ATAC have incorporated many enhancements to their Nuline viscometer.

The Nuline is a self calibrating, highly adaptable 'at-Line' instrument designed to give you a cost-effective and robust option between delicate laboratory instruments and the lower end 'Go-No-Go' type viscosity measurement devices currently



on the market. These improvements and enhancements include extra modes to enhance the instrument's level of flexibility. Legacy mode and low speed modes permits and maintains the speed settings featured on the previous generation REL instrument. The low speed mode (5-90rpm) can be adjusted to 01.rpm if desired. Further improvements means both the temperature and display is flexible to 0.1 C increments. There has also been further enhancement to the cone accuracy via the calibration by cone

size, as well as a security code feature enabling protection of the instrument settings and configurations. The PC interface software now includes an enhanced functionality with the added benefits of graph zoom in and storage, with minimum and maximum viscosity displayed.

Nuline is a highly ubiquitous and well regarded in the petrochemical sector.

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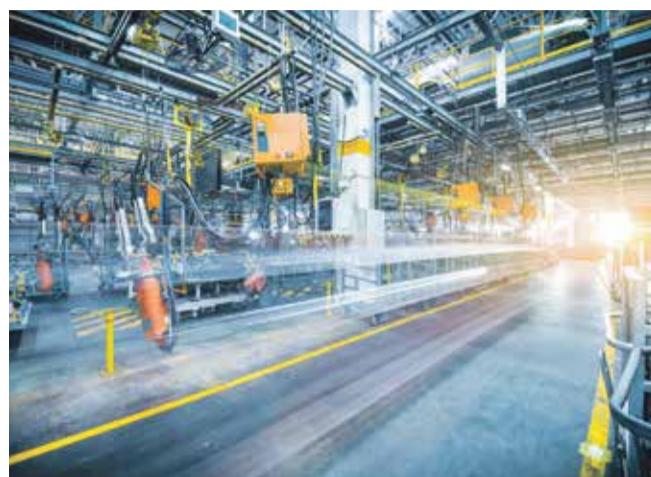
Stopping sparks flying: The design considerations of hot-disconnect connectors

Imagine needing to go to the breaker box to turn off your entire home's electricity supply every time you want to plug or unplug something. Now take that inconvenience and scale it up a thousand times. Imagine a factory needing to disconnect equipment thousands of times a day, possibly in explosive or hazardous atmospheres, and the problem becomes clear. Here Nick Lewis, PEI-Genesis, discusses hot disconnecting in industry.

The UK has the best plugs in the world, at least as far as YouTuber Tom Scott is concerned. Once you go through the arguments, it is difficult to disagree. British plugs include fuses, a built-in ground terminal and yank protection, which are found almost nowhere else in the world.

One particularly innovative part of the design is that the ground terminal is five millimetres longer than the live and neutral terminals. The ground makes contact first, which provides an escape route for any excess charge as the live and neutral contacts mate a moment later. The practical upshot of this is that the British plugs are far less likely to arc when connected or disconnected.

Connecting and disconnecting powered connections like this is known as hot



disconnecting in industry and, while avoiding arcing is beneficial for safety in the home, in industry the risks are far higher.

Only Disconnect

The first question is – why hot disconnect at all? If equipment is powered down before disconnecting, all the associated problems can be avoided. For small industrial applications, this is acceptable, but as factories expand this solution becomes impractical. Powering down equipment can lead to major losses in production and can be a very time consuming and labour-intensive process to plan and implement.

Many industries work this way, and the only real consequence is a reduction in the connector's cycle lifetimes as the arcs slam into the contacts over and over. This arcing can lower cycle ratings by over 500 times, so it is certainly a factor to keep in mind, but the increased cost of replacing connectors 500 times more frequently are massively outweighed by the increased production generated by keeping equipment powered up.

Another contributing factor is that industrial voltages are often many times larger than the 230 volts of home circuits. The possibility of arcing is a direct function of the voltage and the distance between the contacts, so a larger voltage makes for stronger and longer arcs.

Because the contacts start off touching, some arcing is unavoidable at the point they un-mate. This is limited in connectors which include a longer grounding terminal, just like the standard British plug, but arcing will always occur to some degree.

Only Connect

However, there are some industrial situations where even minor arcing poses danger, most notably explosive environments.

The threat of catastrophic explosive consequences for arcing in these environments means that ATEX certified hot-disconnect connectors require an additional design consideration. These connectors, like the Trolex Falcon25, use a two-stage connecting process.

First the enclosure mates, and then the live contacts. This creates an explosion-containing capsule, meaning that if there is an explosive atmosphere present to be ignited by the arc, any explosion is safely contained within the capsule and therefore doesn't have the opportunity to spread.

Hot disconnecting equipment is something that almost every industry does, but how many plant managers keep the connectors in mind when they do so? A hot disconnect in your home probably feels natural and does not have any negative consequences if you are using an ultra-safe British plug. But, in a factory, it will reduce connector lifespan. However, sacrificing connectors or productivity is a sensible trade off, just one you should understand before you make.

www.peigenesis.com



Forecyte Online Condition Monitoring Powered by Nidec

Forecyte is the remote vibration/temperature monitoring system manufactured by NIDEC and promoted by GES as part of our machine condition monitoring programme, used by many customers throughout UK & Ireland. The Forecyte system allows continuous vibration monitoring of any equipment over an unlimited period of time and at recording intervals determined by the user.

GES Group's 5 Pillars of Expertise

GES Group established in 1972 as Grants Electrical Services (NI) Ltd., the Company has grown and developed into GES Group, a leading Electrical and Mechanical Engineering business, now serving customers throughout Ireland, the UK and Europe. Currently employing over 80 staff, including many professionally trained and accredited Engineers, we respond quickly to Industry's ever-changing demands and needs, while offering geographic coverage to many of our customers. Traditionally AC/DC motor rewind and re-manufacture specialists, we have developed our portfolio as a market leader to now provide an extensive range of technically advanced products and services.

Nidec (Leroy Somer) Electric Motors stocked in Mallusk and Newbridge (IRL)

As of the 4th January 2021, GES Group became the authorised Distributor for Nidec (Leroy-Somer) Motors Ireland.

This is a very exciting time for both GES Group and Nidec as we have worked together in partnership in Northern Ireland for several years and by expanding the distributorship to Southern Ireland our partnership will create a more comprehensive infrastructure with enhanced experience and expertise and will provide our customers with a first class customer service experience.

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IIoT asset condition monitoring

THE FORECYTE ASSET CONDITION monitoring platform enables users to minimise unexpected downtimes and loss of production by providing an IIoT wireless equipment monitoring solution based on simplicity, reliability, connectivity and diagnostic intelligence.

Available from Nidec partner, GES Group, the standalone remote condition monitoring platform solution enables monitoring, collection, visualisation and analysis of vibration and temperature data to determine equipment health. This allows asset owners to transition from reactive/preventive maintenance to predictive maintenance. Defining the ideal time and scope of such maintenance minimises unexpected



equipment failure, reduces operating costs, and extends service life.

"FORECYTE has potential for a range of sectors in Northern Ireland, and we are excited to be

able to deliver such innovative technology to our customers at incredibly cost-effective prices," explained David Moore, GES Group CEO.

GES Group can provide significant value to its customers by combining technical capabilities and expertise through its partnership with Nidec. As an authorised partner, value-added services include express availability and local stocks; project management, sizing and on-site commissioning preventive and predictive maintenance; repairs, overhauls and rewinds; and equipment efficiency analysis.

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New Product: M81 Synchronous Source Measure System

An innovative architecture for coordinating low-level measurements from DC to 100kHz. Coming soon!

The MeasureReady™ M81-SSM (Synchronous Source and Measure) system provides a confident and straightforward approach for advanced measurement applications. The M81 eliminates the complexity of multiple function-specific instrumentation setups, combining the convenience of DC and AC sourcing with DC and AC measurement, including a lock-in's sensitivity and measurement performance.



View the M81 here

The M81-SSM uses patent-pending MeasureSync™ signal synchronisation, enabling continuous data sampling on every channel. Noise and sensitivity are on par with the best scientific-grade source and measure instruments.

Features:

- Unique real-time sampling architecture for synchronous sourcing and measuring
- Designed for scientific-grade low-level measurement applications
- The absolute precision of DC plus the detection sensitivity performance of AC instrumentation
- Unique, flexible instrument/distributed module architecture.

Find out more about M81-SSM research applications

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Menzel: Your global supplier for industrial motors

Industrial Process News is proud to announce Menzel has been selected as our Motor Technology Specialists of the Month.

Menzel Elektromotoren GmbH was established in 1927 by Kurt Menzel at the age of 23. A German company, its main manufacturing base is centrally situated in Berlin, with strategically placed storage south of the city and in Peine near Hannover. It also has a UK based office in Melton Mowbray, Leicestershire, East Midlands. The UK based company was founded in 2009 to support British customers who needed to replace outdated and obsolete products which were no longer available from established manufacturers.



Menzel is an independent company, established in the UK and International market as a specialist in motor technology. It has over 90 years' experience in production and delivery of custom electric drive solutions for industrial applications. Offering a wide range of services, it is several steps ahead of its competitors with regards to speed, service, and engineering.

Menzel is renowned for its reliability, flexibility, and most importantly, its speed of response. From personal advice regarding planning, development, design, and production, Menzel provides a total service from a single source. These include standard motors for industrial applications, identical, interchangeable replicas, custom-built designs, mechanical and electrical augmentation, special designs for special drive operations and more. Offering such high-quality motor manufacturing, usually with Standard Lead Times. Menzel, operates the largest stock of ready built motors and components offering fast delivery for urgent need and up to 20MW of power from stock.

As specialists in all aspects of industrial sectors, Menzel ensures it caters for all with established references worldwide in cement, steel, water, paper, food and beverage, utility power and petro-chem markets.



Martin Rooney, Managing Director from Menzel GB Limited states, "A major factor of our success is the fast deployment of replacement motors in time of major failure of existing assets. We want to be seen as a technically competent, flexible, and reliable partner by our clients at all times!"

One major advantage Menzel provides compared to its competitors, where larger or no longer active OEMS, have ceased manufacture of motors. Menzel's response are offers to replace existing motors with interchangeable modern designs from stock in a matter of days/weeks.

Currently, Menzel has a new plant under construction on the outskirts of Berlin, which will help them to cope with the increased market demand and larger capacity. This operation will begin towards the end of 2022. Stamping its authority in the motor industry, Menzel thrives off its promise for fast deployment of replacement motors that can be delivered in days/weeks and not months.



"We are hungry for the future says Mathis Menzel MD of Menzel Elektromotoren – with 93 years of experience in the electric motor industry, we are building a new factory with 80,000kg single piece lifting capacity which will prepare us for the next generation." Mathis then went on to say, "Change is a big part of our company culture. Due to a strong reduction of the Siemens large motor factory in Berlin, Menzel was able to save jobs that were destined to be lost by employing some of the most experienced engineers from this plant. In turn, this has helped Menzel to cope with the rising demand for custom motor solutions."

As well as this, Menzel is in the early stages of a wholesale move from its established home in the centre of Berlin to a new purpose-built facility on the outskirts of Berlin. Mathis explained, "We have already acquired the plot for our new factory and have recently received local government planning and construction approval. We are now in final negotiations to award the turn-key contract to commence building the new facility."



The company's main customer base is users of industrial AC and DC motors, both fixed and variable speed operation with a large proportion of its business coming via the repair industry. These customers are often tasked with urgent replacement of failed motors no longer available from existing OEMS, Menzel step in to replace an asset helping to restart production quickly after an emergency failure occurs where no spare exists.

Always looking to improve its relationship and sterling reputation with its customers, Mathis continued to say, "We are also strengthening our position in the US market with a local engineering support facility. We want to be with our customers – wherever and whenever they need us."



The drive to continue its extensive successful services continues, through its electric motor test stand, one of the most up-to-date test facilities of its type. The Test Bed is one of Menzel's latest added benefits for its customers. It features extensive electric motor testing services while encompassing routine checks, type tests and system checks for external customers and brands. Menzel's equipment includes a 6kV converter, rotary converters for all normal voltages from 3 to 13.8kV, and load resistors for checking generators.

Martin explained, "The main usage scenario is the

check of three-phase asynchronous squirrel cage and slip ring motors by means of a load test and/or heating test, in short: The technical possibilities of our load test facility enable the realisation of any type of special requirement."



During COVID-19, Menzel has coped well, implementing innovative staffing of its shopfloor with purpose adapted shift rotas. Its quick reaction to UK customer needs in times of equipment failure and utilisation of Menzel's unique stock inventory, has meant that its customers can rely on Menzel to deliver replacement motors on point and on time. As lockdown restrictions continue to ease, more customers have become aware of Menzel's capabilities, especially over the past 12 months. Its previous success ensures its customers that Menzel is always available to help and react in times of need.

Moving forward, Managing Director, Mathis Menzel commented, "I would like to thank our UK customers who have always been a loyal base over the last 12 years – and who have allowed us to make steady growth."

For more further information, please see the details featured below:
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Global drinks manufacturer cuts air and inefficiencies

When a 40 bar turbo compressor situated within an internationally renowned British-based producer of soft drinks broke down, it was faced with two choices: repair or reconfigure. Choosing the latter, the producer found that the old proverb 'as one door closes, another opens' proved true.

Founded in the late 1930s by an entrepreneurial chemist, Britvic – formerly British Vitamin Products Company – established a reputation for producing fruit juices as an affordable source of vitamins during the Great Depression.

Maintaining an operation of this scale requires vast amounts of compressed air. So, when a 40 bar turbo compressor, which was contributing to a three compressor configuration including two Gardner Denver oil-free 40-bar WH29 units at the firm's plant in Kylemore, Ireland, failed – an issue that coincided with another site's closure in Norwich, England – its retained contractor, KSM Engineering, presented an option that would see the relocation and reconfiguration of its remaining Norwich assets at the Kylemore site.

This move would not only mean that the 40 bar turbo would no longer be required, but also the contractor believed it would improve the compressed air system's efficiency considerably.

Manual Intervention

With two factors at play – the closure of the Norwich site and the 40-bar turbo compressor's failure – it was decided that the compressor should be repaired and then held in plan as a backup unit only. After all, it was understood that whilst the asset was highly efficient when run at 100% and fully utilised, the very nature of the PET blow moulding facility, where the air demand profile rapidly changes from high to low, was leading to volatility when the unit was only partially loaded.

This volatility was even affecting CMC's AIRMATICS™ control solution, which Britvic had in place to manage the regular loading and unloading of the two WH29 units. Due to the 40-bar turbo's inability to handle regular fluctuations in loading and unloading cycles – the very thing that AIRMATICS™ is designed to do by ensuring that compressors under its management only load and

unload according to demand – it was excluded from the system's management profile.

So that AIRMATICS™ could run as planned and manage the two WH29 units during weekends, when air demand was low, the site's team would have to switch off the turbo so that it could be bypassed to enable AIRMATICS™ to run as designed.

This manual intervention proved to be an effective workaround, however, it highlighted further flaws in a system that otherwise would have run efficiently and automatically under the direction of AIRMATICS™.

Kevin Manning, Director at KSM Engineering says, "We'd known for some time that the 40-bar turbo unit was only efficient when fully utilised, and that it was causing a series of inefficiencies for a large proportion of the time. The fact that we were having to incorporate workarounds, none of which were required given how robust the Metacentre control solution was, further signalled that it was time to reevaluate our compressor system and restructure the setup in order to get the very best from our assets."

Moving Home

The two WH28 and WH40 units, which had been operational at the Norwich plant for 18 years, were transported to Britvic's Kylemore site in Ireland, and



installed alongside two existing WH29 reciprocating Gardner Denver compressors.

As part of the installation, the Metacentre control platform, which was also used at the Kylemore site, was upgraded to AIRMATICS™, CMC's most recent IoT solution capable of managing an infinite number of locally interconnected fixed speed, variable speed or variable output air compressors, regardless of age and brand, by responding to feedback in real-time and automatically adjusting settings and performance levels accordingly.

The upgrade also enabled the system to measure power per compressor in addition to system dew point and dryer alarm on the air treatment equipment.

The inclusion of the solution's latest generation of visualisation technology also meant that performance, power discrepancies and any opportunities to make further gains could be quickly identified.

Since Britvic moved its WH28 and WH40 units from Norwich and installed them alongside the two WH29 compressors at its Ireland plant, it has removed the volatility associated with a partially run turbo compressor.

Prior to installing the revised configuration, the system was drawing 5,266,560 kWh a year with an associated annual running cost of €579,320. Since installing the new setup, Britvic has cut its power and energy bill by 30%, reducing power usage by 1,579,968 kWh and the annual cost by €173,796.

Furthermore, the range of power afforded by utilising a combination of the WH29, WH28 and WH40 compressors, in conjunction with using AIRMATICS™, means that whilst the system can draw on a total 1.3 megawatts of power if required, it has more choice when it comes to only drawing on what is required at any given time.

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Sykes-Pickavant Highlights Industrial Torque Wrench with Split Design



The popular New Generation Industrial Torque Wrench from Sykes-Pickavant can be split into two parts for easy and economic storage and transportation. This recent addition to the Torque range is proving popular amongst end users from all sectors thanks to the innovative space saving design, the separate parts are easy to assemble as one piece with a press-in button feature.

The unmistakable torque signal system as featured on Sykes-Pickavant's Heavy Duty 'Motorq' range is also utilised for the new models, offering a clearer indication when torque is met to reduce the possibility of over-torquing. The push-through ratchet provides two directional torquing, doubling the torque wrench's possible applications. Operation is comfortable due to the ergonomic handle which guides the user's hand into place, improving ease of use.

The New Generation Torque Wrench is available in three options; the 80240000 which covers 200 – 800N.m/150 – 600lbf.ft and the 80250000 which covers 300 – 1,000N.m/200 – 750lbf.ft, both with a ¼" square drive as well as the 80250500 which covers 300 – 1,000N.m/200 – 750lbf.ft and features a stepped 3/4" to 1" square drive. Take a look at all three models on the website here: <https://www.sykes-pickavant.com/products/search/802>

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High quality service from T-T Pumps

In this issue of Industrial Process News, we have chosen T-T Pumps as our Pump Solutions Company of the Month.

Established in 1959 as Vanroy, in Burslem, Stoke on Trent, the company started out as a general engineering company, and branched out into pumps around 1970.

This led to the company building a reputation with electric submersible pumps, acquired by a Danish company in 1978. From 1983, T-T Pumps started to design and manufacture control systems and provided continuous steady growth, leading to the business being acquired by the current owners in 1989, returning the company to full British ownership, who are still involved. Starting out with 25 employees and a turnover of £1.2 million, the company continued to grow and moved to its current location at Woore, South Cheshire in 1998. The site being a 6.5 acre site with originally 11,000 sq feet of works and warehouse space.

Bob Nash, Managing Director said, "Over recent years, the business has organically grown by strengthening existing markets and introducing new products and services, now employing 120 staff. Our works and warehousing have grown to 32,000 sq feet with extensive warehousing, a new manufacturing area and remotely located repair workshop for the repair of effluent and drainage pumps."

Displaying a wealth of knowledge built from its resounding years of experience, T-T Pumps has positioned itself

as one of the UK's leading companies in the design, manufacture, supply, installation and service of pumps, controls and valves. Not only does T-T Pumps manufacture, but the company is also the sole or main UK agent for a wide range of pumps.

Bob said, "We provide pumping systems, control systems, flow management, pumping station design provision, installation and commissioning, plus, after sales service with monitoring. We offer a wide range of quality products and services with an enthusiastic skilled and trained team who can provide full customer support and service."

T-T Pumps provides its services for a wide variety of industries and markets, related by their requirement of transferring liquids. Bob explained, "Whether its effluents, drainage, waste liquids through to potable water for domestic consumption and industrial processes. Some would suggest we are in the water industry, but our range of industries is wide, from building and construction industries to agriculture

and many more. There are not many industries that we do not touch."

T-T Pumps constantly strives to improve the features within its range and continuously searches for new innovative products to add to its portfolio. The company is committed to pushing the boundaries of its products to incorporate the most efficient, reliable and innovative capabilities, resulting in long term benefits for its customers.

Bob mentioned, "Our quality products are well designed for life and reliability. Our products are further supported by experts in their fields."

A noteworthy feat within its product range, T-T Pumps' SEER Monitoring is one of the most innovative, highly advanced monitoring systems available on the market. The system enables T-T Pumps to monitor pumping stations and plants 24/7 with live status and alarm activation.



required, T-T Pumps is taking the need for training at all levels, very seriously.

"Today, we have eight apprentices at all levels from artisan to graduates, we try to give our apprentices a broad experience of the business, so they are multi



Another noteworthy addition in its product range is the Planet Range of Package Pumping Stations. Designed and manufactured by T-T Pumps, the Planet Range provides an efficient and economical way of installing a sewage/drainage pumping station and provides large retention volumes integral to a single chamber design.

Speaking with Bob, he told us about some of the latest developments for the company. He stated that, "After extending its premises by 60%, the works facility has been streamlined to provide a better workflow in the warehouse and new machinery has now been introduced to increase our inhouse manufacturing capability of Made in Britain products."

As the demand for greater technical ability is

skilled and flexible." Bob continued, "Our management team, joined us initially as trainees who have now grown and developed through the business."

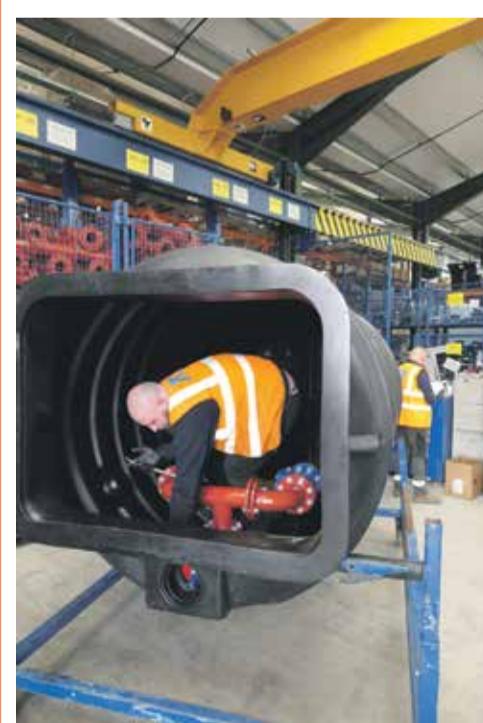
Due to the ongoing implications from the COVID-19 pandemic, many industries and businesses have faced their own challenges during such unprecedented times. From lockdowns, furlough and work from home to a cease of production and job loss, COVID-19 has created a resonating impact on all industries. Responding and rising to these challenges, is undoubtedly what has helped position T-T Pumps as the leader in its field and allowed the company to maintain its services throughout the pandemic.

Bob explained that, "Initially customer activity

reduced, but within days we realised that demand was strong for our products and services, gaining key worker status within days of the initial lockdown. Our main concern was the safety of our staff, customers, suppliers and the general public, for who we came into contact with. Several of our staff were furloughed at the start of the lockdown, with a skeleton staff of 26 maintaining our operation, after putting in place strict COVID-19 preventative measures we gradually returned to full capacity by late summer 2020. We have the support and understanding of our staff, in maintaining the very highest levels of hygiene and COVID-19 prevention."

In terms of the company's future plans, Bob told us that, "We are looking to continue our growth across all our markets by providing quality products and services."

For any further, please see the details featured below:
T +44 (0)1630 647200
www.ttpumps.com



New: 2060 IC Process Analyser from Metrohm

Nowadays, it is of utmost importance to carry out accurate process-oriented analyses in order to comply with quality and safety guidelines. The 2060 IC Process Analyser from Metrohm Process Analytics is the perfect example of how established laboratory analysis can be integrated into the process for automated and continuous monitoring.

The 2060 IC Process Analyser is a complete robust solution for multi-parameter analysis of anions and/or cations across a wide concentration



range, ng/L to %. Combining the proven Metrohm high performance ion chromatograph and the liquid handling modules (LHM) such as pumps, valves, and dosing units in one industrial cabinet, opens up myriad opportunities to shift your measurement from the laboratory to the process.

Metrohm Process analysers are well known for their modular configuration concept; we have now taken that flexibility one-step further. The 2060 IC Process Analyser is based on the 2060 online analysis platform from Metrohm

Process Analytics, meaning that up to four analysis cabinets can be combined to create one single analyser platform. The use of optional extension and ultrapure water modules ensure that extensive sample preparation steps and eluent production can be fully automated while IC analysis is performed in the IC cabinet.

Find out more: <https://www.metrohm.com/en-gb/products-overview/process-analyzers/2060-process-analyzers>

info@metrohm.com
www.metrohm.com

Essentra increases use of Post-Consumer Recycled Plastics



Essentra Components, the global manufacturer of essential industrial components, has significantly increased the percentage of post-consumer recycled plastics being used in components manufactured across its low-density polyethylene (LDPE) product lines.

As part of its journey towards a more sustainable future, nearly all LDPE products produced at the UK facility are now being manufactured using at least 40% recycled plastics, and sometimes even more, without any drop in quality or performance.

Since production began in April 2021, 57 million parts have already been manufactured and distributed across Europe, the Americas and Asia and the Pacific with zero interruption to service, process or increase in cost to customers.

The development is part of Essentra Components wider sustainability strategy and part of its Circular Plastics Alliance pledge. Whilst the LDPE range is the current focus, the aim across the division is to incorporate more sustainable materials across the product portfolio so that at least 20% of material processed is from more sustainable sources by 2025.



To reach the 40% initial threshold, Essentra Components has invested hundreds of thousands of pounds into new machinery at its Kidlington, Oxfordshire plant allowing it to mix both virgin plastics resins with post-consumer resin, primarily made from recycled packaging from the bottled drinks industry. The new blending equipment ensure products maintain the same level of quality, integrity and durability but with a more sustainable make-up.

Richard Sederman, Essentra Components Strategy and M&A Director said, "The move is not only designed to lower Essentra's environmental impact, but also support its customers' sustainability agendas: "Manufacturers across all markets are looking at ways to lower their carbon footprint across all scopes. Products like our new LPDE range allow our customers to do that with zero cost or interruption and without having to factor it into their sustainability strategies or budgets."



"The products are already in circulation and have been for 2 months, meaning customers have unknowingly already taken a big step in reducing their environmental impact. This means as we become more sustainable as a manufacturer and distributor, so do our customers, speeding up the process towards a net zero industry."

The initial product started at a ratio of 20:80 but continued research and development has allowed Essentra Components to achieve the 40:60 ratio with a view to progress it further to between 50% and 60% within the next few months.

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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 offer 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.

Contact
T +44 (0)1924 245000
info@metrel.co.uk
www.metrel.co.uk



AI entry made easy: Kontron delivers AI functionality with the KBox A-203-AI-GC

The Intel Atom® based Box-PC is now available with an integrated Google Coral Edge TPU for AI image recognition.

Kontron, a leading global provider of IoT/Embedded Computing Technology (ECT), will soon also make its AI-platform available as a KBox PC based on an Intel Atom® x7-E3950 processor.

The KBox is ready-to-use and can be integrated directly into existing X86 landscapes to quickly and efficiently implement own application scenarios around Machine Learning and Artificial Intelligence at the Intelligent Edge.



With the integrated Google Coral Edge TPU (Tensor Processing Acceleration Unit) with up to 4 TOPS (trillion operations per second), the speed increases significantly compared to applications with simple USB cameras without TPU.

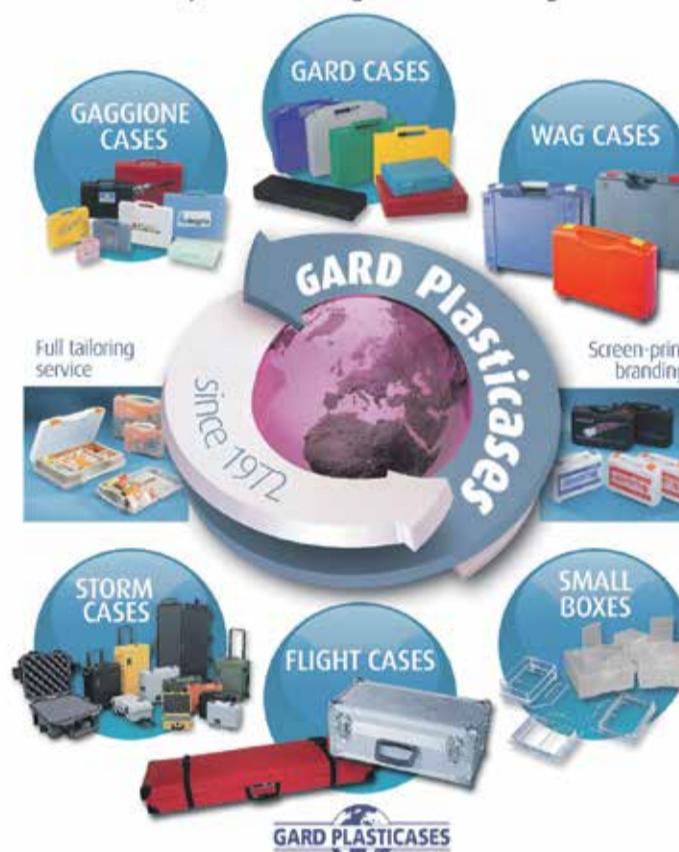
Unlike the Kontron AI-platform based on the NXP i.MX8M, which is available as a board product, the KBox A-203-AI-GC can be placed directly into the control cabinet or attached to a machine without further preparation. The gateway solution is based on the proven KBox A-203 system, which is used in practice

for collecting, processing and distributing sensor data. It networks different end devices and ensures smooth and secure transmission to a higher-level server infrastructure. With the AI-accelerator, visual information can now also be processed. Two front USB 3.0 ports, connections for displays, two GB Ethernet and an industrial 24 VDC power input are available as interfaces. In addition, there are serial interfaces and a fieldbus option.

For more information, please visit:
<https://www.kontron.com/products/solutions/artificial-intelligence/kbox-a-203-ai-gc.html>

www.kontron.com/en

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New Elma MR50 multi rotary switch available from Foremost Electronics

Foremost Electronics, the engineering-led Essex based importer and specialist distributor of electromechanical components announces the availability of the new Elma MR50 multi rotary switch. Rugged rotary switches have a wide number of industrial applications and are indispensable in the agricultural vehicle sector where they are subjected to very harsh conditions.

The MR50 is an extremely small yet robust, multifunctional rotary switch providing the highest functionality and performance in a minimal space for compact control panels and portable devices. Front panel sealing to IP60 and IP68 and

offering exceptional vibration resistance the Elma MR50 series is an ideal rotary selector for building site machinery and vehicles and agricultural applications.

The Elma MR50 is highly customisable and has been used in applications as diverse as target aiming devices, night vision devices, interface solutions, two-way radios, cockpit applications (aircraft, automotive, construction machines, military vehicles), portable devices (communication, medical, rescue, sports, transportation, measuring, photo/video and test equipment).

With a diameter of just 1/2" (12.7mm) the MR50 provides up to



16 switch positions, with switching torques of up to 6 Ncm, and operates in either shorting or non-shorting mode. With gold-plated contacts (3-micron gold), the switch performs over the operating temperature range of -45°C to +85°C.

To see the Elma MR50 multi rotary switch available from Foremost, please visit: www.4most.co.uk call: +44 (0)1371 811171 or email: sales@4most.co.uk.

Mascot further extends acclaimed Blueline power supply line-up

Mascot has further extended its class-leading Blueline portfolio of power supplies with the addition of the switch mode 3920 external PSU. The 3920 is medically certified in accordance with EN 60601-1 edition 3.1 (safety) and EN 60601-1-2 edition 4 (EMC) and has been designed to meet global power conversion requirements.



Working with universal AC line voltages from 90V to 264V, the high-efficiency 3920 offers continuous output power up to 180W. Possible applications include medical computer systems, healthcare, laboratory and medical devices such as incubators, blood analysers, DNA equipment, ultrasound systems, diagnostics units and medication dispensers, and other applications such as communications systems and security devices.

The 3920 range combines high quality and performance, with competitive pricing and compliance with the latest eco-design specifications (CoC Tier 2, DoE level VI, CEC, MEPS) adopted in the EU and North America. CE-marked and bearing global UL Certification, the range delivers a complete turnkey solution to product designers.

The 3920 comes in four standard versions delivering fixed outputs of 12, 24, 36 and 48V. Other versions and customised units with special plugs and cords can be supplied on request. All units are fitted with short-circuit protection as standard.

T +47 69 36 43 00
sales@mascot.no
www.mascot.com

POLYRACK founds Aerospace GmbH



POLYRACK TECH-GROUP has founded POLYRACK Aerospace GmbH, during the second half of 2020.

As a new, independent subsidiary at its headquarters in Straubenhart, Germany, the case and system solution specialist intends to serve the aerospace industry supplier market with customer-specific products in the future.

Managing Directors, Andreas Rapp and Patrick Mees, will steer the company for this market. This includes electromechanical components made of metal and plastic, including individual rugged system platforms in various housing designs with IP65+ protection and optimised heat dissipation according to military standards, Air Transportation Racks (ATR), rugged backplanes according to MIL standards for CPCI, VME64X and OpenVPX for extreme requirements as well as mechanical components and the development and integration of I/O boards to specification.

POLYRACK sees aerospace as a future market. However, this also involves very high demands in terms of quality and possible risks. Therefore, the company decided the foundation of an aerospace themed subsidiary several years ago, in order to prove to its customers the quality management requirements of aviation according to DIN EN 9100 with an official certificate. The DIN EN 9100 standard is fully compliant with the widely used ISO 9001 standard and contains further requirements regarding safety, quality and reliability in the aerospace sector.

www.polyrack.com

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MTM Products: The industrial label and nameplate specialists

In this issue of Industrial Process News, we have selected MTM Products as our Label and Nameplate Company of the Month.

MTM Products is a well-established manufacturer and supplier of industrial labels, nameplates, graphic overlays, vinyl cut decals, bespoke safety signage and engraved products to OEMs in the UK and EU.

MTM Products was formed in 1976 and has been under the current private ownership since 1986. Establishing itself as one of the UK's leading manufacturers of labels and nameplates, MTM Products is well equipped to assist its customers, utilising its expertise, experience and world class facilities.

Ian Greenaway, Managing Director said, "With over 40-years' experience, we share our expertise to provide cost-effective, technically sound solutions to meet customers' requirements."

MTM Products is one of a small number of UL Authorised Label suppliers in the UK and is able to offer solutions compliant with UL969 standard.



"MTM Products offer high quality and excellent customer service at 'value for money' prices. We differentiate from the competition on customer service and technical expertise which enables us to be a 'solutions provider.' Ian continued, "We have a broad range of modern manufacturing equipment for both small and large quantities of labels and nameplates."

MTM Products works in partnership with its customers, sharing its wealth of over 40 years' of knowledge and experience, to ensure the optimum labelling solution. MTM Products mainly supply original equipment manufacturers, in many sectors including: automotive, rail, electrical, construction, medical and life safety. The company's customers range in size, from large multi-national to small start-up companies and MTM Products ensures that it provides the highest levels of customer service, for all of its customers.

Ian stated, "All our products are bespoke to a specific customer and designed for long service in the environment in which they will be used. We have particular expertise in supplying graphical products to emergency lighting OEMs."

MTM Products boasts the expertise and equipment to provide a turnkey service, from initial design through to volume production, encompassing NDA's, PPAP or ISIR documentation and Certificates of Conformity.

One of the most notable dedicated service that MTM Products



provides, is not only its commitment to its customers but also to its team. Dedicated to continuously investing in both people and equipment, has helped to position MTM Products as a leader for the manufacture of custom labels and nameplates. Encompassing a culture of continuous improvement, MTM Products places both people and its products, at the heart of its production. This in turn, has enabled the company to offer high quality, reliable lead times and great customer service, at competitive prices.

Ian said, "We are continuously investing in new equipment and our people, to ensure that we remain an industry leader."

With the effects of the COVID-19 pandemic, many industries and companies, faced their own challenges in response to national lockdowns, furlough scheme and reduction in sales. Maintaining its production throughout the COVID-19 pandemic, MTM Products was determined to use this time to evaluate and invest in itself, to further its growth and dominating industry presence.

Ian explained that, "COVID-19 negatively impacted

many companies and the last year has been challenging. In the early days of the pandemic, we were able to supply labelling to our medical equipment customers quickly for the Nightingale Hospitals. MTM Products have remained open for business throughout the pandemic and have continued to invest in the business so that we are in a strong position to take advantage as the economy grows. We have a strong balance sheet and we are ready for growth, which we are already beginning to see."

In terms of the company's plans, MTM Products will continue to invest in its team and products, striving to continue to innovate and maintain its position as an industry leader. Ian stated, "MTM Products are planning for steady growth and see many opportunities to help more original equipment companies in the UK and internationally with their industrial graphics requirements."

For any further information, please see the details below:
T +44 (0)1246 450228
www.mtmproducts.co.uk



Revolutionising Manufacturing Management

In this issue of Industrial Process News, we are proud to announce that we have selected 123 Insight Ltd as our Management Software Company of the Month.



in traditional systems. Dedicated to improving upon these flaws for both customer and supplier, its software was specifically designed to address issues such as: high initial costs, long implementation times, expensive consultancy, annual maintenance and regular version update fees. 123insight provides a simple low-cost monthly subscription covering both the product and support, boasting full pricing transparency and no minimum contract period.

"We use the tag line 'Advanced Simplicity', as the software is very easy to learn, but given our no-risk, no minimum period subscription we often say 'If it doesn't work for you, it doesn't work for us.' Martin expressed.

Determined to break the mould of traditional systems, 123insight is truly innovative and unique, delivering an easy to use, highly intuitive, affordable and risk-free solution.

"Aside from the product itself, we have a unique and risk-free evaluation process. Prospective customers can attend one of our online events to satisfy themselves that the product could be a good fit for their business." Martin continued, "If they are ready to proceed they can attend the six days of training (for the entire system) under no



obligation, meaning that if they were to find afterwards that 123insight wasn't suitable they have the safety net of being able to walk away with nothing to pay. After that, it's just a low monthly subscription which can be cancelled at any time."

Adapting to the challenges presented by the COVID-19 pandemic, the company responded to the needs of its customers, evaluating and implementing new ways of business. "Due to the pandemic, we rapidly reworked how prospects can evaluate our product with online sessions,

which have worked well. We also recently published a book on how to implement MRP software. Available on Amazon, we also give away free paperback copies to all

companies that attend our online events. It's a great template for implementing any MRP system, not just our own."

Martin continued, "123mobile has helped many of our customers during the pandemic. It allows staff to perform stock room and shop floor tasks like booking stock in or clocking on/off of jobs, aids social distancing and reduces the need to share PCs on the shop floor."

In terms of the company's ongoing plans, the future seems bright for 123 Insight Limited, with aims to continue to innovate the industry and improve upon its products and services through consistent development. "As a third of our subscription revenue is ploughed back into development there are always new and innovative features around the corner. We are also aiming to return to trade shows either later this year or early in 2022." said Martin.

For any more information, please see the details below:
T +44 (0)1489 860851
www.123insight.com

Retail security dilemmas solved with ShopShield

This summer, countless retail, hospitality and entertainment properties across the whole country are standing closed and forlorn as a consequence of lockdown destroying their business one way or another. And, no matter what it says in their lease, tenants who have run out of the wherewithal to pay rent, arrears and monthly outgoings, won't worry about security for their abandoned premises. The responsibility, therefore, inevitably falls back on the sometimes-beleaguered landlord who has his own finance issues to deal with. Unfortunately, these empty units are like an open invitation to thieves, vandals, arsonists or squatters, even fly-tippers if there is an inviting forecourt to dump on. Landlords can well live without all this in terms of time and further cost.

Commercial security specialists, Clearway, have stepped into the breach with exactly what's needed to stop both criminals



and mindless vandals: ShopShield One, a fixed-price, retail security solution that is simple, affordable and ticks all the necessary boxes to keep the premises safe and secure until new tenants can move in.

Like an easy to understand and buy, one-stop-shop solution, ShopShield One will cover replacement locks, a temporary

letterbox seal, Key safe and flammable waste removal. A comprehensive risk assessment is also carried out to highlight any other issues, for which a set of bolt-on services is available to provide additional security measures tailored to the individual needs of your premises.

Deterrent is the word, affordability the key, and peace of mind the result. Why wait? One call to the specialists and we can solve your empty retail property security problem straight away: <https://www.clearway.co.uk/shopshield-retail-security>

Contact
T 01322 479652
enquiries@clearway.co.uk
<https://www.clearway.co.uk>

FEAD Event - EU Taxonomy and the role of Waste to Energy



In light of the adoption of the Taxonomy's delegated act on activities substantially contributing to climate mitigation, FEAD – the European Waste Management Association – stresses the need to reassess Waste to Energy as an activity positively contributing to climate mitigation objectives.

FEAD is very disappointed that Waste to Energy has been negatively portrayed in parallel pieces of legislation, i.e. in a recently published technical guidance on the Resilience and Recovery Fund. We strongly argue that a proper assessment is needed of the conditions under which Waste to Energy successfully contributes to the said objectives.

According to a recent study by PwC (2020), waste-to-energy unequivocally contributes to climate mitigation and circular economy, by:

- Safely treating waste that cannot be reused or recycled, by taking pollutants out of the eco-cycle
- Significantly avoiding CO₂ emissions by:
 - Turning waste into energy to produce heat, steam and electricity, which can effectively substitute fossil fuels as a low-carbon alternative.
 - Recovering valuable secondary raw materials (e.g. metals and aggregates) that can be used in new products and processes.

Moreover, it should be noted that, in terms of market needs, 142 million tonnes of residual waste treatment capacity will be needed by 2035 to fulfil the current set of EU targets for municipal waste, non-hazardous commercial waste, and industrial waste needs (CEWEP, 2019). With the current Waste to Energy capacity at 90 million tonnes, this leaves the EU market with a gap of approximately 40 million tonnes of non-recyclable waste that must be somehow treated.

T +32 2 732 32 13
info@fead.be
www.fead.be

FEAD Event - Waste to Energy: An essential element for circularity



In view of the upcoming delegated acts on the EU Taxonomy, FEAD, the European Waste Management Association, yesterday held a successful online event on the topic of Energy Recovery from Waste (Waste-to-Energy), hosting the views of the EU Commission, the waste management industry, and of one NGO.

Initiated by FEAD President – Peter Kurth, the debate was joined by Peter Wessman – Senior Legal Officer at the European Commission DG ENV, Markus Hauck – Member of the Managing Board / Chief Financial Officer, EEW Energy from Waste GmbH, Yoana Yoncheva – Filyova – Chairwoman of the Bulgarian Recovery and Recycling Association, Janek Vähk – Climate, Energy and Air Pollution Coordinator, Zero Waste Europe, Christian Suhl – Lawyer, PricewaterhouseCoopers Legal Germany, and Valerie Plainemaison, FEAD Secretary-General.

The discussion was facilitated by the moderator Jackie Davis and broached the following key issues in relation to Waste to Energy:

- Recovering energy from non-recyclable waste must be, from a legal perspective, regarded as an environmentally sustainable economic activity and complementary to recycling
- Energy recovery from waste plays an important role in closing the circular economy loop and is an essential step in the waste management chain ensuring the safe treatment of non-recyclable, residual waste. As a resource, it is the best use of non-recyclable, residual waste as it avoids the use of fossil fuels in the production of heat and electricity
- Waste-to-Energy (under R1 criterion) is consistent with the circular economy and it treats waste higher up in the hierarchy, thus complying with waste hierarchy principles: more recycling, more recovery, and more diversion from landfilling.

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Bright future ahead says Hart Doors

In this issue of Industrial Process News, we have chosen Hart Doors as our Industrial Doors Solutions Company of the Month.

Despite the global pandemic one of Britain's oldest door manufacturers is optimistic about the future writes Melanie Rosby, Hart Doors' Marketing Manager.

We have come a long way since the establishment of the Tyneside company in 1946 by the father of the present chairman, Doug Hart and grandfather of the present managing director, Nick Hart.

Focusing at the time primarily on industrial and retail shutters, Hart has now become a very significant

engineering business focused on developing a range of products including its high-speed door concept, Speedor, in the mid-1980s, making Hart the oldest British manufacturer of the high-speed door.

The inspiration behind the Speedor high speed door was out-dated doors in Hart's Newcastle factory which "were bad for heating costs and the working environment". The solution required radical thinking – high-speed, automatic doors where the opening/closing cycle was just a very few minutes.

The result is an international brand. Speedor is now in use across the globe, from North America, the Falklands, South America, Scandinavia, Russia, Africa, the Middle East and the Far East covering a limitless range of industrial and commercial sectors.

Now that we have global carbon reduction targets against the backdrop of the challenges of climate

change, Speedors will play their part in reducing carbon emissions through their speed and greater automation.

The fundamentals of industry will not change but with the high-speed door playing a vital part in an environment more than ever reliant on state-of-the-art technology, software, computing robotics and wider automation across every element of manufacturing and distribution, Speedors will have an important part to play.

Global economies comprise hundreds of industrial categories each with their own complex issues. One common dominator will be the need for advanced automatic door systems as designed and manufactured by Hart.

Typical examples of Hart installations include Nissan's Sunderland plant where Hart installed ATEX-rated Speedor Cleanrooms to maintain strict air leakage limits and to ensure maximum protection for personnel in a potentially hazardous paint facility.

At nearby Komatsu, the challenge was safety and reliability in a highly efficient 200,000 sqm facility. Here each Speedor was made-to-measure with devices and activators fitted to suit specific areas, giving Komatsu a safe and secure working environment for its employees.



Hart Doors at Nissan



Hart's security shutter

There can be no more frantic an environment than at international airport where Hart has worked on over 40 across the globe. At Heathrow Hart designed, manufactured and installed 50 specialist and unique Speedor Conveyor automatic smoke screen systems capable of handling 6,000 bags per hour, while providing a seal for 30 minutes in the event of fire.

For Veolia, Hart was faced with difficult conditions on site including dust, dirt and moisture. Door failure could affect compliance with local authority regulations.

The solution was to install 8m x 8m Speedor Storms, an extremely robust door capable of withstanding wind class 5 due to its unique guide system.

To read more about this amazing story of a global business we have an excellent website: www.hartdoors.com
T 0191 214 0404



A Speedor Storm door



A trio of Speedor Cleanroom doors

Innovative Technology Solutions Company of the Month

Experience, not theory

Industrial Process News is proud to announce that we have chosen IAMTech as our Innovative Technology Solutions Company of the Month.



Founded in 1973, IAMTech started life as industrial plant model makers, and over the last 45 years, has grown into a leading hub for the development of innovative technology solutions for the Oil, Gas, Chemical and Power industries. Established on British soil, IAMTech base themselves in Stockton On Tees.

Known as the world's largest independent industrial software provider, its solutions are used in 23 countries globally. IAMTech specialise in a plethora of industry sectors such as Chemical, EPC, Gas, Manufacturing, Mining Oil, Power, Pharmaceutical Industry Software and general industry software. IAMTech creates software products for maintenance, shutdowns, turnarounds, outages, permits, asbestos management, thermal radiation modelling and atmospheric gas dispersion modelling.

Being known for creating solutions for industrial industries, IAMTech boast its software suite has the common aims to improve efficiency and productivity by digitising processes, saving money and importantly, increasing safety.

"Our clients benefit from software that has been developed within asset-intensive industries, for asset-intensive organisations. Our software continually

evolves in response to customer requirements and the latest trends in Oil, Gas, Chemical and Power industries. We regularly update our software, to enable the customer to follow best practice and share learning, with world leading companies," states Andrej Dethlefsen, Marketing Manager at IAMTech.

An additional benefit of IAMTech's software is that industry experts support it. IAMTech team members have spent a significant portion of their career in the Oil, Gas, Power, and Chemical industries. This cumulative experience permeates every aspect of its software, from product design and development through to configuration, implementation, and support.

Open, site-based pricing means unlike its competitors, IAMTech has chosen to publish its pricing.

Ross Coulman, Managing Director stated, "We strive to continually build long standing, transparent relationships with our customers, who we consider partners. We have sacrificed profits to change an industry's mindset. This principle enables our customers to have an equal product service at a less expensive cost to all."

IAMTech's best-selling innovation software is the iPlanSTO, and is disrupting the industry by offering more specialised and capable software at a lower price point.

iPlanSTO aids in the management of shutdowns, turnarounds, outages, and TAR events with a proven industry workflow, developed in conjunction with BP. Unlike its competitor's software, it is simple to use and enables its customers to scope,

plan, estimate, sign approve, schedule, capture progress, time recording and learning of all their STO's. This saves up to 89% of the cost of planning a work order on a piece of equipment previously serviced.

iPlanSTO is packed with features specifically designed to support plant shutdown processes. It also enables the customer to measure the productivity ratio of all personnel delivering the STO. Once productivity is known, it can then be improved.

Possessing a client profile of leading companies in the field such as ALTRAD, INEOS, SBM Offshore, Kaefer and many more, IAMTech has seen tremendous growth throughout COVID-19. IAMTech is grateful to give back to its community.

"We have donated to some great local charities such as Zoes' Place, The Teeside Family Foundation, and supported our local football team Harrogate Town Association Football Club. We feel privileged to be in a position where we can support our local community," says Ross, Coulman, Managing Director of IAMTech.

The future looks bright for IAMTech with expansion plans to reach into American markets with local representation in the next few years, bode exciting times for the company.

To find out more, get in touch or visit their website:
T 0800 012 6969
sales@iamtech.com
www.iamtech.com



ESAB Savage A40 Air with PAPR offers heavy-duty protection

ESAB launched its new Savage A40 Air with Powered Air Purifying Respirator (PAPR) technology. Helmets such as the Savage A40 Air are essential for workers in situations where welding fumes and particulates are a concern, such as for some cored wires, working in confined or poorly ventilated spaces and for protecting operators from hexavalent chromium fumes, which are generated from stainless steel, chrome alloys and chrome-coated metals.

The Savage A40 Air combines exceptional



performance and value. The unit has three settings that adjust airflow between 170 and 230 l/min. to suit the environment and

application. It operates at a quiet 70 dB and features a high-capacity, lithium-ion rechargeable battery that offers up to 8 hours of performance between charges.

Bigger, Better View

The high-tech Savage A40 Air helmet provides extreme comfort and protection in all processes. With a design inspired by the Sentinel™ A50 helmet, Savage A40 Air offers a 50 x 100mm viewing area for a wider field of vision. The helmet weighs 700 g. Its 1/1/1/2 optical-class lens features ESAB's ultra-clear

true-colour technology for increased weld pool clarity and enhanced definition.

Like SENTINEL, welders can stay more productive with Savage's externally activated Grind Button. Even while wearing a heavy glove, welders can activate a shade 4 Grind Mode on the left side of the helmet. Grind Mode may be suitable for cutting processes as well.

Sensitivity and delay controls inside the helmet allow users to adjust the response to various

welding conditions. Sensitivity control is an adaptable feature useful when TIG welding at low amperage for better reaction. Delay control enables the welder to set how long the lens stays dark after the welding arc stops. Short delay helps get the job done faster during tack welding, while longer delay is useful for high amperage welding.

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WeldingDroid adds new owner and capital for expansion to Germany and the United States

The Danish robotics upstart, WeldingDroid, is adding Thomas Visti to its ownership group. Thomas Visti, who is sometimes referred to as the Danish 'King of Robotics' as he has been a crucial component to the success of the Danish robotics industry, said WeldingDroid has incredible earning potential across many industries. The welding robot will do tank and pipe welding jobs six times as fast as conventional systems.

WeldingDroid now plans to expand from six to 30 employees at its headquarters in Vejen, Denmark, and open branches in Germany and the United States before the end of 2022. The company is poised for explosive growth as the COVID pandemic lets up, and business kicks back into high gear. Sales in the first half of 2021 already exceeds total sales in 2020.

Robotics success in Denmark
Thomas Visti was the owner and CEO of two of the biggest robotics successes in Denmark: Universal Robots (UR) and Mobile Industrial Robots (MiR). He was named European CEO Entrepreneur of the Year in 2019, and today he is a serial investor who has changed his focus to investing in Danish high-tech upstarts and helping entrepreneurs scale to reach their full potential.



A WeldingDroid unit will pay for itself in 190 work hours, or just a month and half of eight-hour workdays. That means a business using WeldingDroid can outbid its usual competitors both on price and delivery time

With his background in innovative robotics and a huge international network at his fingertips, it's quite a scoop for an upstart like WeldingDroid to attract an investor of Thomas Visti's caliber. But it is a good fit all the way around.

A WeldingDroid unit will pay for itself in 190 work hours, or just a month and half of eight-hour workdays. That means a business using WeldingDroid can outbid its usual competitors both on price and delivery time.

Part of The Lions' Den – The Danish version of Shark Tank

Among the other investors in WeldingDroid are two of the 'lions' from DR1 TV's The Lions' Den – a Danish version of the American hit TV show, Shark Tank.

Lions Jesper Buch and Jacob Risgaard invested money in WeldingDroid after an episode of the show, and they are excited to get Thomas Visti onboard.

Original owner still in charge

Thomas Visti purchased 20% of the company but Kevin Christensen, who is the founder of WeldingDroid, still owns the majority at 22%. The company is based in Vejen, Denmark, where it was founded in 2019.

What is WeldingDroid

WeldingDroid can be used for gas tungsten arch welding, also known as tungsten inert gas (TIG) welding of pipes and tanks with a diameter between 100 and 3,000 millimeters. WeldingDroid completely changes the well-known process of welding tanks and pipes, completing a 60-minute contemporary welding job in just 10 minutes.

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Training & Development News

Enhance your career prospects in acoustics

The IOA runs a range of certificated short courses nationwide, assessing competence in the areas shown. The courses run twice a year at accredited training centres across the UK (courses are held prior to exam dates and usually run for around five days).

To find out what's right for you and where in the UK the courses are running, contact the IOA at:

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www.ioa.org.uk

Institute of Acoustics



Die casting technician shortages

The long-term global demand for die cast parts, of all types and sizes, continues on an upward trend with more and more parts being redesigned for diecasting. The much talked about 'circular' economy and the move away from plastics to more recyclable, natural materials such as die cast alloys is also driving that demand.

This creates a problem (albeit a good problem!) for die casting plants who find themselves now needing to recruit a new generation of technicians to increase and upskill their current workforce.

A growing list of companies have found a new way to solve these problems. They are hiring suitable new people, many of them young and enthusiastic but with no foundry experience as they have worked in completely different industries, then enrolling them in a new online training program in Die Casting Technology.

Right First Time Success

By quickly increasing the knowledge of new staff and enabling them to participate fully in their new roles, not only encourages them but also enables the company to benefit from new and valuable input throughout the production process. By being Right First Time and quicker to market, from initial design through to volume and series production, can save significant time and money for the company.

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PEMAC Assets can also work across multiple sites, languages and currencies and can easily integrate with existing ERP, OEE and financial platforms. The CMMS system also supports compliance of 21CFR, on site validations and enables

calibrations which can all be backed up with live reporting, supporting LEAN and AMIS operations.

PEMAC Assets is available as SaaS or an on-premise solution, implemented with the support of the PEMAC team.

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CoreAVI announces certifiable safety-critical software

CoreAVI announced a suite of Vulkan®-based safety-critical graphics and compute libraries supporting the new, high-performance Arm® Mali™-G78AE GPU for the automotive, industrial and avionics markets. The Mali-G78AE GPU is Arm's first GPU IP designed for safety critical applications. CoreAVI's software suite for the Mali-G78AE GPU includes a Vulkan safety driver, GPGPU algorithms, libraries for OpenGL® SC1, OpenGL SC2, and TrueCore™ as well as all safety certification artifacts. This range of next-gen safety-critical software drivers and libraries will be available to support semiconductor designers, OEMs, and Tier 1 system developers. CoreAVI's automotive safety software products meet ISO 26262 ASIL D certification requirements for advanced automotive and autonomy applications.

Developed with support from Arm, CoreAVI's software suite takes advantage of the performance, safety, flexibility, and scalability of the new Mali-G78AE GPU. The Mali-G78AE GPU offers a number of safety features designed to enhance the determinism and robustness of software running on the GPU. A new Flexible Partitioning feature allows the GPU to isolate in both the time and space domains, allowing multiple applications to safely and securely share the GPU.



CoreAVI's software is designed to the Khronos® Group's open standards for graphics and compute and will be compatible with a variety of certified real-time operating systems as well as Automotive Grade Linux (AGL). Because the software suite is based on the Vulkan safety standard for graphics and compute, the driver allows applications to directly run sophisticated safety-critical graphics and compute algorithms such as FFT, matrix manipulation, and image filtering.

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Print & Packaging News

Adhesives & glue guns

AdCo UK is one of the largest manufacturers 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 UF 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.

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

Constantly innovating and seeking to add new products to their already extensive range, Datamark truly are the one stop shop for all of your labelling needs. Moving from strength to strength since its inception in 1995, Datamark offers customers competitive pricing, unparalleled customer service, reliable deliveries, rapid quote turnaround, and an extensive product range. Datamark's product range includes: Plain and Colourwashed Labels, Flexographic Printed Labels, A4 Sheet Labels, Fanfolded Labels & Tags, Own Brand Thermal Transfer Ribbons, Thermal Transfer Ribbons, Thermal Transfer Bureau Print Solutions, GoDex and other brand Thermal Transfer Printers, Thermal Transfer and Direct Thermal Print Solutions, and TT Printers Service and Maintenance.

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

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Nitrogen system installations at The University of Liverpool

Over the years, Thorite has completed numerous specialist projects for universities throughout the UK, with the latest being an installation of a series of compressor systems and Nitrogen generators for brand new laboratories at The University of Liverpool.



The University of Liverpool is leading pioneering research into coronaviruses and antimicrobial resistance to antibiotics from their new Centre of Excellence for Infectious Diseases and Research building, which they moved into in July 2020.

Thorite had already completed similar installations

at The University of Liverpool and had worked closely with HPC, Parker, and University project managers. However, the Centre of Excellence was a major expansion to current facilities, and the new development required multiple nitrogen outlets for the research laboratories, which are used in liquid



chromatography, mass spectrometry and a range of analytical instruments.

Thorite's installation is based on a Parker NITROSource system, which consists of three, N2-80PALY nitrogen generators in a two on-duty, one standby configuration. This set-up provides outputs of up to 100³/h of nitrogen at 100ppm. Each generator is supported by a Parker OFAS pre-treatment package and in addition to the nitrogen generators, Thorite also supplied and installed three HPC Kaeser CSD(X) Series rotary screw compressors. These are individually controlled by Kaeser SIGMA AIR MANAGER 4.0 units which monitor the compressed air supply from each compressor.

The whole installation is exceptionally energy-efficient, with the Parker NITROSource system providing savings in compressed air usage of around 25%. Being a modular system, additional capacity can be easily added if required. Similarly, the HPC CSD compressor's SIGMA control enables compressor



performance to be precisely matched to actual air demand, thereby allowing additional energy savings.

The system was fully commissioned in July 2020 and a University of Liverpool

Project Manager stated, "We are delighted with the performance of the new installation, delivered on time and budget by Thorite. It will prove to be a highly valuable asset as the site extends its research capacity moving forward."

To find out more on this and other installations, please call: 0800 092 1273, email: capital@thorite.co.uk or visit: www.thorite.co.uk

Bespoke assembly workstations: Flexible and efficient

RK Rose+Krieger (part of the international Phoenix Mecano group of companies) have 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.

We have recently completed the design and build of 11 bespoke assembly workbenches for a brand new customer.

All of the benches were designed from images and sketches and all individually tailored for each of our customer's particular requirements. Working closely with the customer and from photos taken off existing benches, R+K were able to produce individual designs for approval for a brand new updated assembly cell. This flexible approach was instrumental in the awarding of the business to R+K.

We were actually so pleased with the results we made some more for our own assembly area. If you have any bench or frame requirements and would like us to help please get in contact.



Also if you would like to discuss how we can help you with any of our range of products including aluminium profile, connecting technology and linear components please contact via details below.

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New method of manufacturing micromotor windings

The result of seven years of research and development, industrial scale-up and mechatronic pioneer, Mirmex DC Micro Motor, has announced availability of a new method of manufacturing high-power density electric micromotor windings.

Constructed from flexible printed circuits and developed using artificial intelligence (AI), the micromotors are reported to feature unmatched performance and maximum precision. They can be up to 50% more compact, 70% more dynamic, with 3 times fewer heat losses and assembled 10 times faster than most of the existing solutions using conventional windings made from copper wire.

Designed for use in high performance



industrial and surgical precision powered tools, active prostheses, aerospace, and robotics, the motors are fully customisable thanks to Mirmex Motor's proprietary software developed in-house. The motor production is greatly simplified which results in a quicker manufacturing time with reduced tooling costs – an impossible process using traditional copper coils.

Mirmex Motor's technology is primarily applicable to slotless permanent magnet motors, whether used as synchronous machines or as Slotless Brushless Direct Current (SBLDC) machines. These devices have existed for 40 years but have not seen significant innovation since their inception. While traditional high-performance coils are extremely complex to design, manipulate and manufacture, the company's innovation meets the demands of users looking for increased performance, compactness, and the convenience of custom-made micromotors.

Contact
T +32 475 229659
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<https://www.mirmexmotor.com/products>

TF Automation build laser marker for medical devices

TF Automation have just completed the build of a repeat machine of one produced some 15 years ago for Intersurgical's plant in Lithuania. Intersurgical is a global designer, manufacturer and supplier of a wide range of high-quality medical devices for respiratory support.

TF Automation revisited the original design and have basically produced the same machine using the latest technology to laser mark the manufacturer's logo and product reference on their Hydroguard Mini medical oxygen filters.

The filters are autoloaded by robot onto a step-feed conveyor and into the Gravograph Laser Marker which marks both sides of the filter simultaneously with the two pieces of information. The feed-in and output are both to pre-determined amounts, with a filter being laser marked every 5.3 seconds.

The new machine was required because of an increase in demand for these types of products in relation to the COVID pandemic. TF Automation worked effectively and quickly with the team at Intersurgical and were able to re-create the existing machine, which incidentally is still in use to support the demand.



Intersurgical provide flexible patient solutions for airway management, anaesthesia, critical care and oxygen & aerosol therapy, for use within emergency care, hospitals and also in the home. They adopt an integrated approach to provide the highest standards in design, manufacture, quality and customer care allowing them to respond quickly and effectively to their customers.

Tony Hubbert, MD at TF Automation, comments,

"We were delighted to build a second laser marker for Intersurgical and also that our original machine is still working well! We are seeing an increase in projects incorporating laser marking for general part identification but also for more specific tracking and traceability requirements too."

T +44 (0)1274 308005
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Spare parts inventory service aims to reduce downtime risks

Northern Industrial has launched a new service aimed at safeguarding manufacturing businesses from downtime during obsolete equipment breakdowns.

SparesVault offers guaranteed access to a bespoke automation spare parts inventory to balance the cost of holding obsolete and end-of-life spares against the threat of machine downtime.



The subscription-based service starts with a comprehensive review of system-critical assets to create a detailed obsolescence report with recommendations for automation parts to be included in the bespoke SparesVault inventory.

The agreed inventory is then sourced by Northern Industrial, with all parts serviced, tested and checked before being held in a secure bonded warehouse facility. Back-ups of relevant parameters and programs are also securely stored on cloud-based servers. Parts considered most likely to be needed are provided for storage at the customer's site for immediate access in the case of a breakdown.

Any further parts required, covered by the SparesVault inventory, are delivered to the customer's site within a contractual response time. Inventory levels are reviewed at least annually with adjustments proposed where necessary. John Joe McGonagle, Northern Industrial Area Sales Manager, said, "According to research it's estimated that downtime costs UK manufacturers £180 billion per year. Downtime costs are detrimental to all manufacturing businesses, with prolonged downtime becoming more likely when running obsolete equipment."

"Having a robust plan in place not only protects a business but can increase growth."

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

To then carry out the pinpointing of the leak, the user uses the **TS 200** carrying rod and **BM 200** (for paved surfaces) or **BM 230** (for unpaved surfaces) ground microphone on the section found during the preliminary detection stage.

The **SeCorrPhon AC 200** transmits the acoustic signals and shows the intensity as a graph on the screen, pinpointing the leak with sufficient accuracy to allow confident excavation.

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

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



Correlator and acoustic water leak detector combined

SeCorrPhon AC 200

professional – flexible – intelligent

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

