

INDUSTRIAL PROCESS NEWS

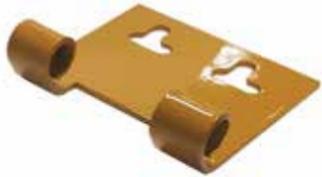
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IPN

Electrostatically Recovering Copper Wire



A combination of an ElectroStatic Separator and a Metal Separation Module is enabling the recovery of fine copper and other metals from a waste product at a UK metal recycling company.

The Bunting ElectroStatic Separator significantly enhances the ability of companies to recover fine metals such as copper wire. In this project, the feed material is fine material from air-extraction post-shredding; a mix normally classified as waste despite the valuable metal content. Previous attempts to recover the metal constituent, including fine copper wire, had been unsuccessful.

On site, between one and two tonnes per hour of the metal mix initially passes through the Metal Separation Module before the final stage of ElectroStatic Separation. The Metal Separation Module consists of a Ferrite Drum Magnet, Vibratory Feeder and high-intensity Rare Earth Roll Separator. The Ferrite Drum Magnet removes strong magnetic metal with the remaining mix passing onto the Vibratory Feeder.

This regulates and presents an even, monolayer of material onto the belt of the Rare Earth Roll

Separator. The Rare Earth Roll Separator has a thin belt feeding material onto a head pulley constructed from high-strength neodymium rare earth magnets. As material passes over the head roll, weakly magnetic metals are attracted to the radial high-intensity field and held on the belt and then deposited underneath. A strategically placed splitter enables the separation of the attracted metals (including fragmented stainless-steel) from other non-magnetic materials (e.g. fine copper wire and aluminium).

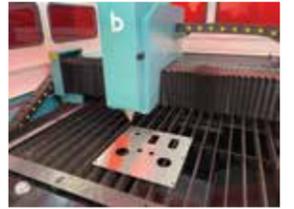
This non-magnetic metal mix passes onto the third separation stage to recover fine copper wire at a feed rate of approximately one tonne per hour. The ElectroStatic Separator is a recent addition to the range of Bunting metal separators. The technology produces a separation by exploiting the difference in electrical conductivity between various materials in a feed material. This enables the recovery of metals such as fine copper wire. In this project, the recovered copper wire has a purity of +95%.

www.mastermagnets.com



Cutting edge engraving technology

Brunel Engraving has made a major investment in state of the art technology in order to significantly increase its efficiency and output, providing a rapid one stop service to the water industry.



The leading specialist engraver, reputedly one of the most progressive operators in the precision engraving and processing of metal and plastic components, has quadrupled its laser engraving capacity with the installation of two state of the art laser engraving machines at its production facility near Bristol.

In addition, a dedicated 1.5kw fibre laser profiling machine which is able to cut metals such as stainless steel up to 3mm thick, will allow Brunel to cut profiles, shaped labels and control panels from pre-etched and engraved sheets.

Brunel has further invested in another rotary engraving machine to expand its production in rotary engraving work. This brings the company's total rotary machines to seven, the largest of which has a maximum bed capacity of 610mm x 1220mm.

The latest laser cutting and profiling equipment together with Brunel's laser and rotary engraving, chemical etching and digital print operations, will enable the company to offer the water industry a faster response time, improved quality control and more competitive pricing.

Established over 30 years ago, Brunel Engraving is a pioneering engraving specialist which provides a complete service to a whole host of industries. The company leads the way in technical innovation. Brunel has ISO9001 accreditation and its highly skilled team of professional engravers is trained to the highest standards in the UK.

www.brunelindustrialengraving.co.uk

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New pre-packed columns for fast method development introduced

Tosoh Bioscience GmbH, a provider of chromatographic solutions for the separation and purification of biomolecules, has announced the introduction of SkillPak 1 mL and 5 mL pre-packed columns. These process development columns are designed for fast method development and resin screening of monoclonal antibodies, antibody constructs, oligonucleotides, proteins, and viruses.

Pre-packed with TOYOPEARL®, TSKgel® or Ca++Pure-HA® process chromatography media, SkillPak 1 mL and 5 mL columns deliver high performance and offer scalability and convenience – giving customers greater flexibility for use of process media from Tosoh. These columns are read to use upon receipt and show excellent physical strength and ideal

flow characteristics for industrial downstream processing.

SkillPak 1 mL and 5 mL pre-packed columns are available with short delivery times in affinity, anion and cation exchange, hydrophobic interaction and size exclusion chromatographic modes. Optimal performance is guaranteed with the columns and they can be operated directly with commonly used low or medium pressure liquid chromatography systems.

SkillPak 1 mL and 5 mL pre-packed columns are now available for sale in Europe, Africa and the Middle East from Tosoh Bioscience GmbH.

T +49 6155 7043700
www.tosohbioscience.com



Social distancing with an entrance mat? 2 meters and social distancing could not be clearer

Just launched is a simple but very effective entrance mat for all commercial premises that gets the social distancing message across 'Loud and Clear'.



COVID-19 has taught us all that social distancing is here to stay for quite some time yet and with commercial premises doing all they can to re-open safely, our new social distancing mats get the message across to customers loud and clear.

With bold wording, loud distance markers, and clear foot placements it is an effective tool in getting the message across and crucially helping us all to reduce the spread of Coronavirus.

Quality is also key in choosing the correct mat. Our COVID-19 mats are designed for high traffic areas. They are good for dirt scrapping, they absorb water, they are wheelchair friendly, fire retardant and fully washable.

To view product details visit <https://seltekwarehouse.co.uk/product/covid-19-social-distancing-commercial-mats/>

A closer look at the GOJO® range of heavy duty hand cleaners

Our hands are perhaps the most essential tools of all, but they regularly take a lot of punishment, especially for those employed in heavy trades, such as engineering, construction sites, garages, workshops, and factories.



Injuries from little nicks and scratches are compounded by exposure to oils, grease, dust, paint and a variety of other materials, potentially leading to occupational dermatitis. Critically, harmful viruses such as the coronavirus could also be passed on, since viruses like COVID-19 are able to stick themselves to surfaces, including that of dirt. Therefore, it is crucial to ensure that all soils are completely removed from hands.

To remove tough soils effectively, workers need access to specialist hand cleaners which are not only strong enough to defeat heavy dirt and grime, but are also kind to skin, such as GOJO's Natural and Olive Hand Cleaners. Dermatologically tested and formulated with natural scrubbing agents, these hand cleaners have the power to clean hands easily and effectively.

GOJO® NATURAL HAND CLEANER is effective against medium-duty soils, such as dirt, grease, oil, carbon black, oil-based paint and tar. It removes soils by using apricot stone and corn seed scrubbers with mild surfactants.

GOJO® OLIVE HAND CLEANER is effective against heavy-duty soils, such as caulk, graphite, adhesive, paint, sealant, and tar. Soils are removed by the action of an olive-stone scrubber.

The range is perfectly complemented by GOJO® SuproMax hand cleaner that removes sticky soils and adhesive thanks to its walnut-scrubber formulation. All three tough soil formulations are compatible with GOJO® PRO™ TDX™ Dispensing System, which offers portion-controlled dispensing to help minimise waste.

For more information, call +44 (0)1908 588444, email info@GOJO.com or visit www.GOJO.com

PatWorld - The Patent Intelligence Platform



Designed for the patent profession, patent researchers and businesses, PatWorld has all the tools you need to easily search across patents worldwide and carry out analysis. It

has an intuitive platform that allows the most complex of searches to be carried out.

The database has several core features:

- Its project based and each project can be shared with colleagues and clients, allowing searches to be interactive.
- The Alert feature allows users to keep an eye on a patent family or competitors patents with automatic email updates providing information such as new patent publications, grants, withdrawals etc.
- It provides a report feature which allows the

user to select and annotate results before automatically pulling them into a report.

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TX high efficiency small diameter immersion tube tank heating systems.

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COMBUSTION ENGINEERING

Turning marginal gains into big wins through digital procurement

Digitisation is a hot topic in many industries, and it's for good reason. Embracing digital technology can help improve performance, boost efficiency and provide feedback on areas where further improvements can be made.

At a time when disruption due to the impact of Coronavirus is still being felt throughout the supply chain, one area that industrial organisations can significantly improve through digitisation is procurement.

Digital platforms can enhance operations across three key areas, the first being reach and access. By virtue of being digital, procurement platforms like SteelScout are accessible anywhere, on any device, at any time, removing barriers to the buying process caused by working remotely.

Secondly, going digital means automating manual-based processes, reducing time consuming admin and the time taken to get quotes and confirm jobs. This ties in with the third key gain, as the ability to

capture and access order data offers a better view of customers behaviour and the procurement process.

By working with a digital partner like SteelScout these gains quickly add up, so that businesses that use metal in their operations can achieve better overall value as well as protect their continuity of supply.

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www.steelscout.com



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Cost effective Fastener Selection

Designers should be prudent about not choosing a bolt class that is too strong for the application and ensuring that the proper tightening torque is applied during the assembly process. A higher bolt class requires a stronger Compression Limiter and potentially stronger mating material. Each adds to the total cost of the assembly.

When increased bearing surface at the mating junction is required, Designers should consider selecting either a flange head bolt or including a washer rather than investing in a headed Compression Limiter. In this situation, there is a trade-off between cost and ease of

assembly. Flanged bolts and washers cost much less than the added expense of a headed Compression Limiter.

In addition, non-headed Compression Limiters are easier to feed. Each standard series of Compression Limiters will affect the overall cost of the assembly in different ways. SPIROL Engineering will assist the determination of which type of Compression Limiter is the best suited to meet the performance and installation requirements that results in the lowest total cost of the assembly.

Further information regarding design guidelines and specifications for assemblies using Compression Limiters, alongside 3D and 2D models, can be found on SPIROL's website.

www.spirol.com



Rebuilding training for the casting sector



The skills challenge faced by many industry sectors is well known and the castings industry is no different. Colleges and training providers offer a range of engineering/manufacturing programmes, including apprenticeships, but these are often more generic in order to appeal to a wider range of sectors. They aim to provide broad underpinning engineering and manufacturing skills, and are not able to offer more specialist sectors the specific skills required.

For the casting and foundry industry, some of these specific skills areas include moulding and coremaking, toolmaking and die design, methoding, metallurgy, and foundry patternmaking. These need specialist equipment and specific expertise to teach them.

The Department for Education, through the Skills Funding Agency and the Institute for Apprenticeships, are rightly keen for apprenticeships to be 'employer-led' but for a sector dominated by SMEs, how realistic is this?

The casting and foundry industry set about writing its own trailblazer standard at level 3 as soon as this was a possibility, to ensure that there was a relevant standard for employers to access. The professional body (the Institute of Cast Metals Engineers, ICME) facilitated this alongside the CMF, providing the secretariat, identifying a lead employer to chair the employer group and submit the application, organising meetings of the steering group, and funding an 'industry person' as a per diem contractor to do much of the leg-work to draft the standard.

A new independent training company has since been established (Foundry Training Services Ltd) to deliver the training, with part time tutors recruited from industry and training for them to become instructors, all funded by a loan. There has also been no nationally funded help available for the development of the teaching and learning materials, which has been funded from charity reserves!

Separately, the industry has actively supported the establishment of the National Foundry Training Centre, funded through a local LEP. An employer was willing to make some land available to 'host' the new facility, and there were industry suppliers who were keen to support and 'sponsor' some of the kit, which was a huge help.

(CMF) Cast Metals Federation

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Expert guidance and training on real-world industrial processes



Industrial Process News is proud to announce that EEMUA has been selected as our Trade Association of the Month.

EEMUA, the Engineering Equipment and Materials Users Association, is a non-profit trade association serving the industrial engineering markets. Through the organisation's range of services and its members' comprehensive expertise, EEMUA provides practical tools and guidance that help to improve the safety, environmental and operating performance of industrial facilities in the most cost-effective way.

At its core are the EEMUA publications, which provide expert guidance on how to perform different aspects of industrial tasks. "If there is a need for guidance, the EEMUA members decide to produce it and form a technical committee," explained John Lilley, Head of Online and Special Projects. "They then come up with a draft which is reviewed by peers multiple times before it is published. From this guidance, we may do training to help people learn about the guidance, and then test and certify them to verify their understanding."

Crucially, EEMUA is focused on dealing with real-world industrial processes. "There is a place for theory, but this is not what EEMUA is about. We're looking at current real-world industrial facilities. Most of them are aging assets, so a lot of EEMUA's

work is related to keeping these older facilities running efficiently and safely. We offer real world advice, guidance and good practice based on what members say are their experiences and what works." The input of members ensures that EEMUA's practical guidance is directly relevant to the varied work of engineers across industry, and EEMUA's relationship with regulators helps marry practice to compliance.

This guidance covers the whole range of competency levels in an organisation, from someone just starting out, to practitioners, and all the way to the most advanced engineers. "Top experts in the industry lead technical discussions or host webinars to implement and drive intellectual discussions about real world problems. The key



thing is that our training is for the industry, by the industry. We do regular reviews of the training to check that it's still relevant to what the industry wants, avoiding the danger of staying fixed in one place. For instance, we now have material on robotic inspection in storage tanks and the use of drones, seeing how industry can move with technology and how it can be integrated into processes."

EEMUA is certainly committed to offering the most up-to-date and relevant guidance as possible. As an organisation entirely guided by its members' needs, EEMUA has supported the industry through the COVID-19 pandemic. "It had a massive impact on our members. Lots of inspections had to be delayed, so we've helped members work through this, sharing



good practice on how to handle postponements and stay compliant with legal regulations. We even added an extra tutorial to our online courses addressing this.

"Also, because our publications are all available in PDF form on the website, members have a comprehensive range of resources to refer to during the pandemic, as well as discussion forums,



e-learning and webinars. We've been offering lots of online support and stepped up our efforts in response to the crisis to make more of the facilities available online, taking regular surveys asking what else members want us to provide.

"We also send a weekly newsletter to members highlighting new developments and bringing attention to any incidents around the world and the lessons to be learned from them. Usually, when an incident happens a form of it has happened before, so it's important to keep sharing lessons around safety." EEMUA's work continues through the pandemic and recovery, and beyond as existing skills and good practice are applied to the changing world – from pandemic issues to renewable energy. EEMUA's methods have already helped engineers through times of change for more than 70 years, making its guidance trusted worldwide.

EEMUA members range from industry giants to small companies, anyone who can benefit from shared, practical guidance on good practice in industrial engineering. To find out more information on becoming a member and everything EEMUA offers, head to the website or get in touch.

T +44 (0)20 7488 0801
ask@eemua.org
www.eemua.org

Electronic Switches Specialist Company of the Month

Leaders in Binary-coded Switches

In this issue of Industrial Process News we have selected EECOSwitch as our Electronic Switches Specialist Company of the Month.

Founded in 1947 as Electronic Engineering Company of California by Bud Dempster and Bob Bonney, it was created to capitalise on the military demand for Thumbwheel switches after the war. The company name was subsequently changed to the more palatable EECO.

"In the beginning, the speciality was electro-

mechanical switches but, over time the company expanded, not just in switches where EECO developed new models thanks to a very strong engineering and research division, but also in hotel computer management systems, in-flight entertainment systems (which were later sold), and membrane switches. Latterly, more products were added, the most successful being conductive elastomer keypads," said Ian King, Manager.

Demonstrating a wealth of experience, EECO displays an expansive history and was notably one of the



earliest electronics manufacturing companies to locate in Orange County, California. In 1993 Transico, Inc. purchased the EECO Switch Division. Additionally, to make things easier to serve Europe and the rest of the world outside of the Americas, in 2000 a sister company was formed and registered, which is Transico Ltd trading as EECOSwitch.

EECO is a leading supplier of digital switches, elastomer keypads, membrane keypads and assemblies. As a leader in binary-coded switches, EECO developed a wide range of Thumbwheel Switches and introduced the STRIPSWITCH® and Micro-DIP® printed circuit-board-mounted coded switches. The company is one of the oldest membrane switch manufacturers, with over 30 years of experience.

With a dominating global presence, EECOSwitch UK is based in Cambridge and with its headquarters and sister company, in Brea California. The company also maintains its own manufacturing facilities in Brea, Taiwan and China.

"We have our own manufacturing facilities, which means that there are no third parties. This keeps our prices competitive." Ian continued, "EECOSwitch UK

has distributors in many different countries across Europe (Denmark, Sweden, Finland, Germany, France, Italy, Spain and Portugal) and the rest of the world including Malaysia and New Zealand."

Providing innovative products, EECO provides for markets, which includes manufacturers of Medical equipment, Avionics, military, communications, security, transport, industrial controls and entry point systems.

With the on-going effects of the COVID-19 pandemic causing many new challenges for industries, EECO has been able to carry on production and is dedicated to continuing to provide for its customers. Ian stated, "This has not affected us in the way it has with other companies, as we have our own manufacturing facilities and we are continuously planning ahead, communicating with our customers and keeping in touch with our Freight and Courier services company!"

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

T 01954 781818
www.eecoswitch.co.uk



RA Tech

The company behind the hotun dry-trap tundish – a product that safely and compliantly routes relief valve discharge to drain – has recently launched the hotun detect. The new device from RA Tech builds on its predecessor by offering a proactive warning for boilers and unvented cylinders.

The hotun detect has an electronic sensor which detects both the flow and temperature of water present in the dry-trap tundish. It then provides a visual and audible indicator as a simple identifier for homeowners.

The design allows precise siting of the sensor, avoiding false alarms while still providing an alert, even in a trickle flow scenario. Its clip-on design also means it can be fitted in seconds and is retrofittable onto all previously installed hotun dry-trap tundishes.

"The hotun dry-trap tundish not only made it easier to route the relief valve discharge to drain, it also made diagnosing that the valve had discharged simpler too," explains Russell Armstrong, MD at RA Tech. "The hotun detect takes this a step further by sounding the alarm, alerting a facilities



manager, engineer or homeowner that there may be an issue with a system. If the relief valve is activated, this small piece of tech may be the answer to delivering efficiencies in energy and water use in our commercial buildings and homes. By enabling this step change from passive to active warning, remedial work can be carried out before a breakdown or other serious problem, saving time and money for engineers and their customers."

Contact
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info@ratechuk.co.uk
www.hotun.co.uk

Effective combustion control key to emissions reductions

Martin Thirsk, managing director of Energy Technology and Control – global leaders in the design and development of combustion controls and burner control technology – explains how effective combustion control can reduce emissions by up to 10% each year, saving industrial burner operators thousands in energy costs.

The facts

Typically, combustion of 1m³ of natural gas in an industrial boiler produces 2.03kg of CO₂, and 1 kWh of electricity generated in a gas fired power station produces 0.420kg of CO₂.

It is not unusual for an industrial burner/boiler to use in excess of 130,000 pounds of fuel per annum, directly emitting up to 15,700 tonnes of CO₂. If we add to that figure, the electricity used to power the burner fan, then the total CO₂ emissions caused by a single burner of this size can exceed 15,750 tonnes per annum.

From an environmental perspective it obviously makes sense to aim for a reduction in CO₂ emissions, there is however also a business case for this as reduced CO₂ is usually a result of improved efficiency and fuel

consumption.

The solution

- Electronic controllers
- Oxygen trim
- Air dampers
- Inverter



Benefits

More efficient combustion in industrial burners conserves fuel, lowers emissions, reduces plant operating costs and prolongs the life of the boiler plant.

The benefits for the burner manufacturer include, full integration, better control, improved flexibility, increased performance, improved reliability, lower cost, simplified wiring and a reduction in storage space required.

By reviewing your burner control strategy it is possible to achieve significant energy savings and substantially reduce outgoings.

T 01273 480667
www.energytechnologycontrol.com

Rotary lobe pumps ensure water recycling & re-use in mine

A manufacturer of mobile water treatment systems was in urgent need of high flow flocculant transfer pumps to enable water to be recycled and reused within a mine.

The mine was currently utilising water from a local reservoir, but with storage levels falling below 5%, fresh water supply to a nearby town was at risk of being halted. North Ridge worked with a manufacturer of a Dissolved Air Flotation (DAF) System to utilise contaminated borehole water with high salinity, within the mine for operational and maintenance services.

To achieve this a flocculant was dosed into contaminated water, combining suspended solids within the water, with secondary filtration used to collect and remove unwanted particles.

The rotary lobe pumps were positioned between the DAF System and the secondary filter, working at a flowrate up to 80M³H ensuring mining operation demand was met and processes unaffected. Rotary lobe pumps are positive displacement units meaning they will continue to transfer fluid at the required flowrate, despite changes in back



pressure which can be experienced as filters become clogged. The operating speed of the units was a very low 428RPM, meaning the units would operate for long periods of time without maintenance, and with low amounts of wear.

Furthermore the gentle operating motion ensures that the transportation of flocculant - which is shear sensitive, is performed without damage, or compromise to process.

For more info visit www.northridgepumps.com or phone +44 (0) 1773 302 660

ION Science launches single gas detector for H₂S, CO, O₂ & SO₂ compliance monitoring



Personal, wearable instruments alert workers to exposure of toxic gases providing instantaneous alarms for life-critical safety scenarios

In a strategic move to further expand its portfolio of high-performance gas detection instrumentation, ION Science (www.ionscience.com) has launched a range of cost-effective, low maintenance, disposable ARA Single Gas Detectors for compliance monitoring and worker safety. The personal, wearable instruments enable workers to monitor their exposure to toxic gases

as well as oxygen enrichment and depletion, alerting them when safe levels are exceeded.

Ideal for petrochemical site plant workers and on-site contractors, the small, lightweight ARA single gas detector comprises six models including four gas types: hydrogen sulphide, carbon monoxide, oxygen and sulphur dioxide. The low maintenance, disposable instruments offer two-year continuous run time as standard.

User set low and high alarms will alert the wearer and surrounding colleagues to the presence of hazardous gas exposure. When an alarm occurs, the user must exit the hazardous area or put on PPE, in line with their company or local health and safety guidelines.

T + 44 (0)1763 208503
marketing@ionscience.com

Gen-C restores EDL's power at the height of the pandemic

When vandals damaged the CHP control panels at EDL's Wellingborough landfill site, rendering two Jenbacher 320 1 MW engines unusable, the timing could not have been worse. One week before Easter 2020, the coronavirus pandemic was sweeping the UK and the country had just been placed into an unprecedented nationwide lockdown. Site managers anticipated a significant period of downtime but thanks to a swift response from gas engine support specialist Gen-C, the upgraded engines were back up and running within just two weeks and are now performing better than ever.



Pandemic pressure

Lee Heath, EDL's Operations Manager, called Gen-C's Managing Director James Thompson at 10am on the day the damage was discovered to see whether there was anything he could do. "The speed of their response was astounding," says Lee. "They were on site by 1pm to assess the damage and had quoted to replace the panels by the end of the working day."

James explains: "As power supply specialists, we are classed as key workers, so we were able to get on site within hours. We recommended upgrading EDL's vandalised panels to the far superior Motortech open access control panels, which are based on the popular ComAp technology, along with Motortech ignition and knocking control systems. To keep costs down, we made sure the new equipment could interface with the engines' existing Jenbacher parts, including the mixer, throttle and auxiliary components."



Establishing social distance

Happy with Gen-C's quote, and the speed of response, EDL instructed them to begin work. But lockdown measures and social distancing guidelines meant this was an installation unlike any other. "In a week when most of our competitors were closing premises and furloughing staff, we were figuring out how to complete the project while minimising the chance of our employees, and EDL's, catching COVID-19," says James. "I rented an oversized house in the local area for our engineers to stay in. It was big enough to zone off separate areas in order to minimise social interaction. I then assessed the site and identified clear working zones for each staff member, to reduce the risk of exposure."

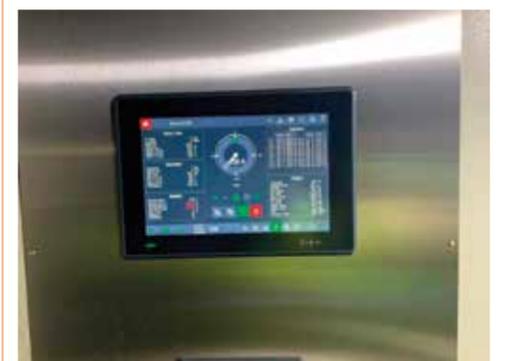
It was also important to ensure that the supply chain had not been affected by the pandemic. "Fortunately, we store a lot of parts at our Sheffield headquarters and every item required for the EDL project was in stock. We started the project just three days after receiving the initial call."

Superior engine performance

The first engine upgrade was completed within two weeks, despite the Easter bank holiday weekend and restrictive COVID-19 working conditions, while the second took just eight days. Gen-C's engineers replaced the vandalised control panels with Motortech's advanced gas engine technology.

Not only does this ensure improved reliability for the engines, it also enables site managers to dial in remotely to see how the engines are performing, receive an alert whenever there is a fault, rectify it and even remotely restart the engines. Gen-C also upgraded the ignition and knocking control systems with the latest Motortech technology.

"The difference in performance is like night and day," confirms Paul Newman of Newman Electrical Services, main mechanical contractor for EDL Midlands.



"The engines run much more smoothly and reliably, and the fact that we can monitor and restart them remotely has proved invaluable; especially as fewer personnel have been able to be on site in recent months."

With both engines running well, Paul and Lee are full of praise for Gen-C's support during a difficult and unprecedented time: "Gen-C's speed of response was fantastic, but more than that, their professionalism and knowledge ensured a difficult situation had a positive outcome. They delivered exactly what they promised, on time and on budget."

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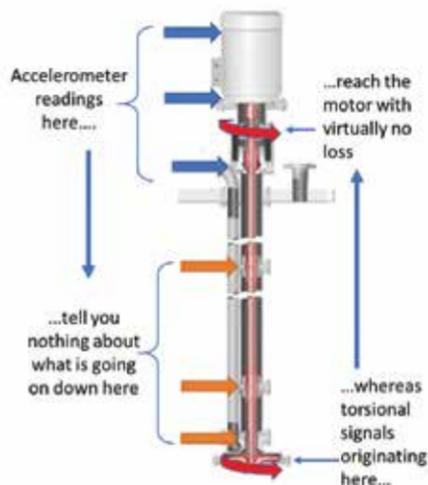
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A New Spin on Vibration Monitoring



Model-Based Voltage and Current (MBVI) systems can turn your motors into vibration sensors – revealing hidden benefits

By Geoff Walker, Operations Director, Faraday Predictive

Condition Monitoring of rotating equipment can bring big benefits through avoiding unexpected breakdowns and enabling more efficient maintenance, with one of the most widely used techniques being Vibration Monitoring.

But some situations that are getting more common in industry such as variable speed drives, with the resulting varying loads and electrical distortions, can make vibration monitoring more difficult. And hidden problems in sound-proof enclosures, remote-mounted, duct-mounted or submersible equipment can all make it difficult taking a vibration reading using a conventional accelerometer.

A new way of getting vibration readings in all these difficult situations can be provided by turning your electric motors into vibration sensors by using Model-Based Voltage and Current (MBVI) Systems. They detect the torsional vibration that is excited by a wide range of phenomena inside equipment, not just rolling element bearing faults. They also monitor energy consumption and calculate the energy being wasted by these faults. So your motor can actually tell you more about your equipment condition than conventional Vibration Monitoring. For a deeper insight into how this technology works see: <https://www.faradaypredictive.com/technical-education/mbvi-technology/>

Torsional Vibration

Conventional vibration sensors measure radial or axial movement of the shaft whereas torsional vibration is movement of the shaft twisting along its axis. The motor driving the equipment "sees" this vibration as subtle variations in the torque required to drive the equipment, which in turn results in subtle variations in motor current relative to voltage. This can be detected and automatically analysed by an MBVI system to provide a broad range of fault diagnostics and condition monitoring. These systems also detect electrical faults and operational problems, eg is it being damaged by being overloaded or stopped and started too often?

Because a shaft is designed to transmit torque from one end to the other, the motor can pick up signals coming from bearings anywhere along the length of the shaft. So even with a long shaft submerged pump like that illustrated, problems at the bottom bearing or any of the intermediate bearings can be detected. The different bearings can be discriminated by their different characteristic frequencies.

They also provide on-site service so you can "try before you buy" using a P100 portable kit, giving you a risk-free way to prove the benefit before investing in buying kit of your own. This really is "a new twist" on Vibration Monitoring.

For further info contact info@faradaypredictive.com, call 0333 772 0748 or visit www.faradaypredictive.com



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Providers of portable and permanently installed condition monitoring and energy monitoring and optimisation systems. Faraday Predictive systems require no sensors to be mounted on your plant equipment, instead we use the electric motor driving your equipment as the sensor. Simply by measuring the voltage and current drawn by the motor we can identify an astonishing amount of information about developing problems in your equipment, giving you an indication of current condition and predicting future condition for up to three months in the future. We provide easily understood advice on the nature of the fault, how we have diagnosed it, the effects it is likely to have, and what you should do about it. We also quantify the energy being wasted by faults, allowing you to cost-justify corrective work on energy saving grounds.

For more information see our website or contact us direct.

Did you know you can use an M91 FastHall measurement controller with a PPMS?

A key benefit of the Lake Shore MeasureReady™ M91 FastHall™ measurement controller is that it can be used with any type of magnet, including a superconducting magnet.

One such magnet system is the Physical Property Measurement System (PPMS®) from Quantum Design, which in addition to a superconducting magnet, consists of a low-temperature cryostat, control electronics, and MultiVu® software used to control the field and temperature of the sample space while coordinating the system's measurement electronics.

Integrating the M91 measurement controller into a PPMS system is an easy process, and to explain how it's done, we have published a new app note.

It describes how the M91 connects to the PPMS electronics and connections are wired to the PPMS sample puck, while also detailing the process for installing the M91 instrument's MeasureLINK-MCS software and a MultiVu application pack on a PC to allow for the integration.

Once they're connected, you can then use the MeasureLINK software to trigger ramps to

temperature or field on the PPMS system.

What's more, a set of pre-written scripts are installed for the M91 controller to execute a complete Hall measurement sequence within the PPMS environment, or you can create custom measurement scripts, and then generate a summary report containing charts and data tables relating to your results.

<https://qd-uki.co.uk/did-you-know-you-can-use-an-m91-fasthall-measurement-controller-with-a-ppmsindustrialprocessnews/>



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.

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G-Series



Interface is pleased to announce the launch of the G-Series – a new, fully metric line of load cells and load buttons for industrial applications.

The demand for Interface products designed and manufactured in the International System of Units (SI), has been evident for several years. Interface's new Global Standard product line, known as the G Series, is designed for an international buyer and user.

Starting small, the series includes three load cell types – the load button, mini S-beam & threaded In-Line. With capacities ranging from 200 Newtons to 50kN. They are all fully stainless steel with an environmental protection rating of IP64 or better.

Each sensor is supplied with individual calibration certificates. So, even with their highly competitive price, you can be sure that like all Interface products, the G-Series are built to the exacting standards that Interface are world-renowned for.

<https://interfaceforce.co.uk/>

VARIOluxx Portable 9-Gas Complete Analysis System

For semi-continuous measurements of flue gases and certified to EN 50379

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

The analyser is housed in a rugged aluminium enclosure with rubber corner impact-protection, and is using Linux operating system, with a high contrast 7" (840x480) graphical display and intuitive touch & swipe panel. Automatic measurements and data logging are available, also with graphical measurements visualisation and csv or pdf emission reporting using the powerful MRU4Win PC-software.

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

Including up to 6 electrochemical cells and a 3-gas infrared bench, the analyser can perform an up to 9-gas analysis of O₂, CO, NO, NO₂, SO₂, H₂S, H₂, CO₂, HC (as CH₄ or C₂H₄), with volumetric and mass emission calculation of mg/Nm³ and g/Nm³, and with O₂ referencing. Measurement of flue gas temperature and flow velocity by means of integrated differential pressure sensor and Pitot or Darcy tube, is completing the large spectrum of use.

More information online: imt.co/PL/mBxj

For More Info, email: 52082pr@reply-direct.com



VARIOluxx

Portable 9-Gas Complete Analysis System

- ✓ Precise measuring technique by means of infrared (3-gas) and electrochemical cells (6-gas)
- ✓ Most suitable for precise low NO_x measurements and other toxic gas emissions measurement according to new MCP Directive 2015/2193 for medium combustion plants with rated power <50 MW
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An Optimised Design for Valve Actuators

The Camtorc series actuator is a mathematically derived cam system first manufactured in 1975. It has been in continuous production since, gaining a base in industries all over the world.

Imtex Controls acquired all rights to the design in 2006 and integrated it into a modular assembly that is particularly suited to space-sensitive or remote/inaccessible locations.

The unique Camtorc design has many advantages over other actuator systems, and it is important for end users and buyers to be aware of these differences.

This case study will explain the advantages of Camtorc, outline the modular components, compare Camtorc to other actuator systems, and also demonstrate how fail-safe valves, or applications where Maximum Allowable Stem Torque (MAST)



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

For the buyer, all of the design benefits of the Camtorc actuator system result in a significantly reduced Whole Life Cost (Whole Life Cost is the projected cost of an asset over its entire life).

The Camtorc series is available for pneumatic and hydraulic applications in either double acting or spring return configurations with a full range of modular control accessories.

Contact
T +44 (0)8700 340 002
sales@imt-ex-controls.com
www.imt-ex-controls.com



is a concern, will benefit from improved torque-efficiency and a reduced risk of valve failure.

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

Compared to other actuator systems, such as the scotch yoke design, Camtorc offers substantial advantages. The scotch yoke actuator employs a piston that moves a yoke via a sliding pin.

It is easiest to think of Camtorc as an optimised version of this design, clamping the yoke apparatus (attached to the pistons) around the cam so they remain in contact along a frictionless surface.

CAMTORC	V S	SCOTCH YOKE
<ul style="list-style-type: none"> • Fewer moving parts - longer service life + lower maintenance costs = reduced Whole Life Cost • Integration of cam & body pistons reduces dimensions of unit • Cam slides across low friction pads, increasing output efficiency to 90-96% of theoretical max. • Consistent output torques throughout the stroke: suited to modulating control • Large side-forces are eliminated = less external housing = suited to remote/inaccessible locations • Cam mechanism is backlash free = easily stopped/started mid-stroke • Reduces the risk of false-fails & spurious trips during PST = lower risk of plant shutdown / damage 		<ul style="list-style-type: none"> • More moving parts - more wear and risk of failure = higher Whole Life Cost • Inconsistent output torques throughout the stroke • Large side-forces at either end of the stroke require additional infrastructure/housing • Side-forces and pin friction reduces efficiency to 75-80% of max. theoretical torque • Larger unit + more complex assemblies = higher installation costs • Where MAST is an issue the stem size may need to be increased = larger unit / more assemblies • More likely to create false-fails or over-travel (spurious trips) during a PST test = damage or shutdown



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DD-Scientific is pleased to announce the launch of its latest product designed to protect workers in hazardous environments.

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The SE+CO is designed to be the first in a new range of sensors from DD-Scientific and will be followed shortly

by sensors optimised for other toxic gas dangers. If you would like to learn more about this product or any of the wide range of gas sensors now provided by DD-Scientific, please don't hesitate to contact us at: sales@ddscientific.com

DD-Scientific is one of the fastest growing sensor manufacturers worldwide and our success is driven by our commitment to high performance products, provided with real quality coupled with competitive pricing and world class integration and technical support.

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Moog helps researchers build a better turbine blade test



Moog Inc. (NYSE: MOG.A and MOG.B), a designer and manufacturer of high-performance motion control products and solutions, has applied its expertise with servo control and actuation to help create a testing facility for researchers at the Technical University of Denmark (DTU) Large Scale Facility, part of the Department of Wind Energy and the Villum Center for Advanced Structural and Material Testing (CASMaT). Underpinning the test facility on the DTU Risø campus in Denmark, is Moog's digital closed loop control system and application software. Moog and its partner T A Savery designed and installed test equipment for three test stands, which can accommodate 15-, 25- and 45-meter wind turbine blades. Moog engineers carried out the installation and commissioning of the test equipment. Moog also is providing ongoing support to the DTU staff. To design the winch assemblies, Moog collaborated with U.K.-based Qualter Hall, a provider of bespoke hoisting, winching and haulage systems.

Moog's goal was to give DTU the latitude to conduct an array of tests. For example, if researchers wanted to use a test bay to conduct a dynamic test on a blade, the hydraulic system would accommodate wide pressure fluctuations. If the next test required a static one with winches, DTU could set the hydraulics to meet a very-low flow.

Moog continues to support DTU's work via a project in which researchers hope to increase the reliability of wind turbine blades.

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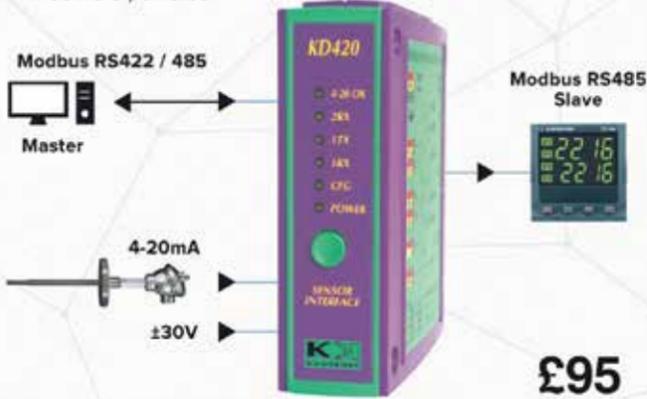




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Polymer Char, the leader in instrumentation for polyolefin characterization has designed a simplified and compact high-temperature GPC for plant laboratories. GPC-QC is a fast and reliable solution that obtains precise molar mass distribution for process control of polyolefins manufacturing.

Some physical parameters related to an average of the MMD, such as melt flow index (MFI) and density, are traditionally used in the industry for quality control. However, these parameters are not enough when manufacturing complex multiple reaction products, which can have multimodal MMD. For these resins, GPC-QC provides important values because it measures the whole MMD, provides short chain branching and intrinsic viscosity information. The complete characterization of the polymer enables a more accurate production control and contributes to cost savings because it reduces off-grade material significantly.

GPC-QC has a highly stable Infrared Detector that provides chemical composition data, particularly relevant for copolymers such as LLDPE, HDPE, and the EP group. The information provided by the IR detector can be translated to either co-monomer with fraction or to density units for a given product range.

The entire analytical process is fully automated and completed in 30 minutes, including sample dissolution and injection, all with a simplified hardware and software, specially designed for a Quality Control environment.

www.polymerchar.com/gpc-qc

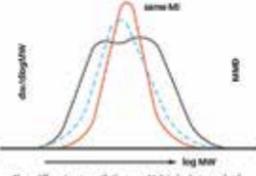


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- Stainless steel with an environmental protection rating of IP64 or better.

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Sunnen's latest bore finishing machine takes flight with aerospace OEMs and suppliers



New SVL-2115 is a multi-stage automated lapping machine that laps and air gages bores in one setup, freeing operator time and increasing part consistency. Aerospace part manufacturers have found a cost-saving solution for bores with large length-to-diameter ratios and very tight tolerance requirements.

Sunnen's SVL-2115 automated lapping machine brings increased productivity and part consistency to what is traditionally a manual process. Based on the same proven SV-2115 honing system, the SVL-2115 provides single setup processing of hydraulic sleeves, valves, piston pumps and other aerospace parts that require extreme bore accuracy or are prone to distortion when honed. The patented system control is designed for unattended operation and automatically laps and air gage bores throughout the cycle. Gage readings are fed back to the control and the cycle is repeated until

the parts are within specifications. "Automated lapping is more consistent than manual and there are fewer workers today with the skills necessary for precision



manual lapping," said Phil Hanna, Sunnen Product Manager. "We've had success in lapping flight control valves, and for very expensive parts an automatic lapping process reduces the possibility of ruined parts due to human error. Since lapping is usually the last process during the machining of a workpiece, if the lapping is not correct all the work to get the part produced up to that point is wasted."



The patented Sunnen lapping tools are available for workpiece diameters from 6.3 to 45 mm (0.25 to 1.77 in) and lengths up to 12 times the bore diameter, not to exceed 200 mm (7.87 in). Additional diameter ranges are in development. Spindle speed range is 100-2000 rpm during lapping, but it is capable of slow speeds for non-powered steps, such as lapping paste application or slow-rotation bore entry. Stroking speed is 0-350 SPM, with stroke length optimized to achieve a high degree of cylindricity.

"This system is a time-saver and it frees operators to run another machine, or handle other job floor duties," added Hanna. "Operators load the workpiece into the fixture and start the lapping cycle, the cycle ends when the part is in tolerance. With automated lapping, less-skilled operators can achieve consistent, close-tolerance results. The precision control valve market is growing, not only in aerospace, but other industries as well. We have numerous SVL-2115 machines now in operation around the US, proving the need for automated lapping."

Due to the outstanding ergonomics of the machine,

repetitive motion injuries often encountered with manual lapping have been virtually eliminated. There is no need to touch a moving part during the lapping process, and a light curtain is standard, so safety is greatly improved.

Easy tooling and probe changeovers accommodate multiple different parts runs during the course of a shift. A stack light allows operators to monitor cycle completions or faults from a distance.

Sunnen offers the complete automated lapping solution, including machines, tools, fixtures, lapping paste, gage probes, coolant systems and coolants.

Additional information on the SVL-2115 is available at www.sunnen.com. Or, call 1-800-325-3670 or email sales@sunnen.com.



Industrial Process Technologies News

Cyber emergency?
Who you gonna call?



Since the onset of the pandemic COVID-related cyber attacks increased by 30,000%. With the UK entering another period of lockdown, are you prepared for a cyber attack?

6 in 10 SMBs will go out of business within 6 months of a successful cyber attack. As a bare minimum, businesses should have a cyber incident response plan in place and have exercised it, so that employees know what to do during an incident. Policies need to be backed by robust protective technology.

Make UK strategic cyber partners, Assured Cyber Protection (ACP), have been helping manufacturers develop their resilience across the cyber risk spectrum. ACP's Enterprise Cyber Security Management® platform (ECSM®) addresses today's cyber challenges, simplifying the application of cyber security for SMBs with cost effective protections.

As remote working further stretches business lines of communication, the ability to protect your business becomes more difficult. Nothing replaces proactive security measures but knowing who to call, and what to do, in the event of an attack is critical to reducing the impact. In these circumstances, speed is of the essence.

If you would like to discuss your current cyber security protection, or understand the risk, or how to reduce impact in the event of an attack, call ACP for a commitment free consultation enquiries@assuredcyberprotection.com +44 203 405 6453



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100 years of business

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.



T 01482 325676
www.kingston-engineering.co.uk

Bespoke hinges are growing in popularity

The ever-growing demand for bespoke products is a challenge Gold & Wassall has accepted with enthusiasm. In the past 12 months, G&W passed the landmark of producing its 250,000th unique hinge design and, with the aid of its expert design team and in-house toolroom, the company shows no signs of stopping there.



Sales Manager Scott Bareham commented, "Of course, we have our huge stock range of hinges – we stock approximately 50,000 hinges on average. However, we see increasing demand every day for bespoke hinges.

"Our in-house toolroom enables us to create almost any piercing pattern and crank pattern, as well as shaping and cut outs.

"When it comes to bigger quantities it's pretty labour intensive to be drilling and countersinking holes to a set pattern, whereas we have the capability to produce a tool specific to the hinge. This reduces labour costs and time significantly.

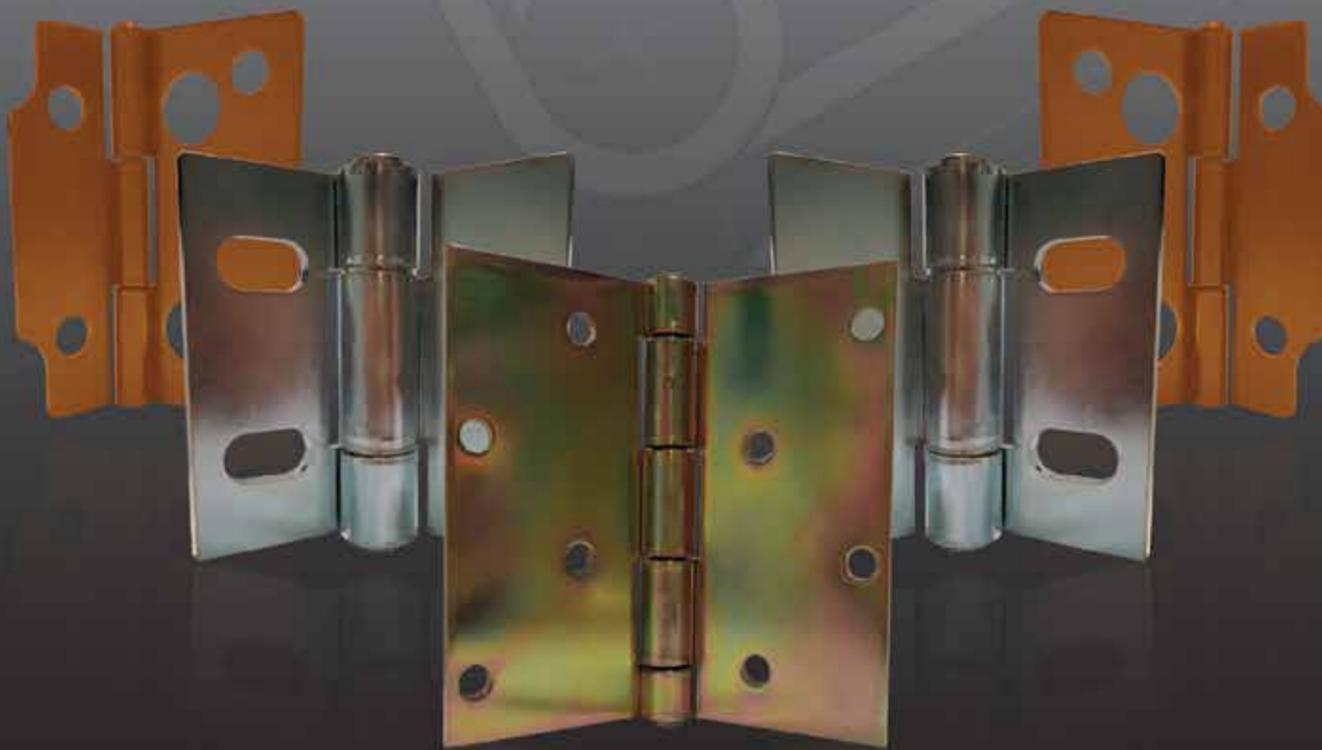
"Our bespoke service isn't limited to simply the shape and size of the hinge, we are producing a wider variety of finishes to hinges than ever before. A recent project saw the exploration of laser engraving a powder coated hinge with the customer logo, which proved very successful. Producing bespoke hinges is certainly one of our biggest strengths, and the ever-increasing imagination of our customers is what keeps us on our toes on a daily basis."

www.goldwassallhinges.co.uk

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Gold & Wassall have been manufacturing hinges for over two centuries, so it's safe to say we know what we're doing. Our team of experts can design and manufacture almost any hinge, for any application. We have made upwards of 250,000 unique hinge designs, with more designs being drawn up each day.

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New cartridge holder cuts the cost of entry level fluid handling by half

A new cartridge holder system from SR-Tek is set to halve the cost of entry level fluid handling for workshops and sub-contractors.

The 900ML-S cartridge holder is available for just £299.43 and is compatible with 32 Oz disposable Semco cartridges. The lightweight holder can dispense low to medium viscosity adhesives, silicones, inks, lubricants, oils and paints up to a pressure of 2.0 bar.

Fitted with a 90° elbow dispenser and a front mounted regulator and gauge to control pressure the 900ML-S also has a safety valve tarred to two bars to prevent the system from over pressurising.

Loris Medart, SR-Tek founder, said: "For small-scale producers outlaying £600 plus on a solid anodised aluminium container, able to apply up to seven bars of pressure, is often a cost too far. "The 900ML-S cartridge holder is designed to help those who may be manually assembling parts and components to accurately dispense fluid, avoiding hand fatigue and increasing precision. It's essentially a plug and play unit that can be assembled in minutes and includes a free cartridge."

The new system can also be used for automatic dispensing and is fully compatible with three-axis desktop robots. A light beam capacitive sensor can be added to the 900ML-S. Connected directly to the cartridge the sensor sends a signal when the cartridge is running low, will stop the process automatically when the fluid runs out and can also alert the operator to any blockages.

SR-Tek produces the world's only commercially available transparent pressure tank.

To find out more visit: www.smartreservoirs.com/product/900ml-s

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2 Marking Systems for the Price of One – Bench & Hand Held



recharges when connected to the mains.

The Multi4 Combo utilises a linear X and Y axis as standard– this maintains quality of mark at the extremity of the marking path. The marking head is manufactured from a cast aluminium frame and metal casing which gives rigidity and high strength.

We offer a free sample marking service &

online demonstrations carried out by our engineers who have experience across all industry sectors.

To find out more about the Multi4 Combo and the full range of Technomark dot peen and laser systems from Universal Marking Systems please contact us at www.ums.co.uk, info@ums.co.uk, tel 01420 565800.



The 2 in 1 Multi4 Combo dot peen marking machine combines both a benchtop and hand held marking system. It is ideal for subcontractors where the bench configuration can be used for small to medium sized components and change to hand held in under 10 seconds for marking very large parts in situ, be it in or outdoors. The device has been designed to be best of breed both as a hand held and a bench system, with no compromise for usability, robustness or functionality and, being electromagnetic, is quiet to operate.

Get 2 systems for the price of one as the Multi 4 Combo is currently available at the same price as a standard bench system.

With a 3rd axis card fitted as standard, a rotary drive can be added at any time for marking around the diameter of a cylindrical item. The nameplate holder



also makes it quick and easy to position and mark nameplates. Two marking head sizes allow 120 x 60mm marking area or 50mm x 60mm.

The large HD colour screen has icon driven navigation, where all features are easily accessed, even if you don't have strong PC skills, which means you can be up and running in as little as 10 minutes. A quick release height adjustment on the column also makes it fast to adjust the column height to suit the part being marked.

Mark alphanumeric data, 2d barcodes, symbols, logos, sequential numbering, part numbers, date/timestamp, batch codes. The patented IDI feature also allows marking over an uneven surface. Data can be input manually or imported from an Excel file (using foc PC software), often used for variable field filling.

If you need full portability around the factory or for marking outside, the compact Combo can be supplied with an internal rechargeable battery. It will give you hours of use and automatically

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Leading provider of magnetic and electromagnetic survey systems



Industrial Process News is proud to announce that SENSYS has been selected as our Magnetometers and Survey Solutions Company of the Month.

SENSYS was founded in 1990 by Dr Andreas Fischer, who has a background in electrical engineering and initially wanted to serve the medical market with visualisation software for MRT systems. Now, SENSYS is a leading manufacturer of detection, survey and measurement solutions, which are mainly focused on coping with magnetic fields.

The Fluxgate Magnetometer and TDEM coils are key sensors within SENSYS' portfolio, which serve clients offering various sensitive services in harsh and hazardous environments. But it is not just the sale of these solutions that is important to SENSYS; the company's excellent support, service, training and customisation options are integral for SENSYS and its clients to nurture and maintain a lifelong relationship.

This incredible commitment to customer satisfaction runs all the way through SENSYS' team. "Besides their quality and focus of working reliably under harsh conditions, our employees add the biggest value with their passion and enthusiasm to give their best, always be available for the extra mile and to help out whenever the client might be struggling," said Wolfgang Suess, Managing Director. "We put the client first and try to make them happy. We don't aim for the quick sale, but for a long lasting relationship built on trust."



"We have been in business now for 30 years, independent and loaded with competencies.



We love what we do, and clients can see that. Our employees and our products have built a solid brand that is growing in recognition – sometimes, we are surprised by companies from unexpected markets making enquiries for new solutions, as we didn't think they would have heard of us."

Indeed, SENSYS' customers cover a broad range of areas, including anything from searching for buried unexploded bombs and ammunition, to archaeology, to SMEs in the geophysics and science markets, where companies use SENSYS' triaxial Magnetometers or ultra-light airborne solutions. SENSYS also works with universities, institutes and laboratories for material analyses, providing complex measurement systems such as vessel ranging systems for degaussing purposes, as well as acting as special requirement based developers for single customised solutions.



In the last few years, SENSYS has been focusing on its ROV-based magnetometer systems for offshore surveys such as UXO search, cable and pipeline tracking. The SEARACK ROV sensor frame is metal free, featuring neutral buoyancy, scalability and flexibility to mount on any ROV. Each frame holds up to four FGM3D UW sensors, and flotation panels can be inserted, increased or removed one by one to adapt to the overall ROV setup. As the frames are combinable – either fixed or even with hinges to keep the low logistics approach and to fit through A-frames – larger survey width or sensor spacing can be achieved without jeopardizing manoeuvrability and payload of the ROV.

SENSYS has also been developing its series of MagDrone products, which can be quickly attached to nearly any drone or UAV with a payload of 1kg+, enabling a wide range of applications.

This is in addition to focusing on building up its research capabilities. "We are now well set up to dive deeply into our sensors, materials and methods. We are able to take nearly any new challenge and speed up our in house



innovation topics – we want to set standards, not just meet them," explained Wolfgang.

As well as the ongoing development of SENSYS' capabilities, there has recently been a change in the company's leadership. "After 25 years of building up the company, Dr Fischer decided to step back a bit and let others do the day-to-day job," Wolfgang said. "Now this responsibility has been given to three younger people, one of which is myself, with a focus on sales and marketing. This freed Dr Fischer to concentrate on research and development and his personal mission to support kids with his own First LEGO League team."



Usually, SENSYS maintains a busy schedule of trade events each year, including Oceanology in London and OceanBusiness in Southampton, as well as international shows for archaeology such as the SAA in the US, or the EAA in Europe.

Of course, all events got cancelled this year due to COVID-19, so SENSYS invested the money in video conferencing tools instead to adapt its operations to a new way of working.



If you are interested in finding out more and staying up to date with SENSYS' latest news, the company is active on social media with frequent updates on its LinkedIn, Facebook, Twitter and YouTube channels. You can also head to the website or get in touch using the details below to discover SENSYS' offering.

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Our logistics sector must get ready for a winter surge in online commerce



By Paul Dodd, Co-Founder and CTO of Huboo

Online commerce has accelerated beyond anyone's wildest expectations over the course of 2020. And, with a testing winter period ahead of us – including the possibility of further pandemic-related restrictions on our professional and personal lives – our reliance on digital retail is surely going to increase further.

During the first wave of the pandemic, many businesses that had previously adopted offline-only retail strategies – such as independent local traders – were forced to change tune and ramp up their eCommerce efforts in a hurry.

As Huboo is software-driven, allowing us to build 'smarter' and more productive warehouses, we were able to keep our doors open to these businesses and onboard them at pace. Unfortunately, elsewhere in the logistics sector many businesses were simply not prepared for the disruption of the virus combined with the huge upsurge in demand for fulfilment services. Consequently, retailers and traders struggled to get their stock into the supply chain and customers were forced to endure lengthy delays for their items.

The question is, how big will the next surge in online demand be, and is our logistics sector ready for it?

New audiences have embraced online retail

Through the lockdown older and less digitally savvy customer groups were forced to upskill and learn how to book deliveries and order essential items online. The opportunity is there for online traders and their fulfilment partners to capitalise on, but these audiences cannot be treated lightly. Many will have no alternative but to order online – we must not let them down.



Changed working habits will continue to fuel demand

The drive to return to our city centres didn't really take off this summer, and now the official guidance is once more geared towards people working from home wherever possible, further increasing their reliance on doorstep delivery both for personal and work-related items.

Customers won't want to wait long for these business essentials, placing an additional strain on logistics providers that don't have a clear understanding of their retail clients and who their respective customers are.

Customer expectations have returned to pre-crisis levels

During the initial lockdown, the vast majority of online customers were tolerant of lengthy lead times, shipment delays and customer service challenges due to the exceptional circumstances. We should not expect this level of acceptance to continue in the months ahead.

While it's true that global supply chains remain hugely disrupted by the pandemic, retailers and logistics providers alike have nevertheless had

six months to strengthen and remodel their operations to improve their resilience and responsiveness. Ultimately, the world of digital retail is vast and intensely competitive, so if one retailer is failing to deliver an acceptable service level this winter, customers will show no hesitation in seeking out one of their rivals.

Trending items will change

Earlier in the year we saw items as diverse as face masks and jigsaw puzzles trending, as people's online ordering habits changed in unexpected ways thanks to the lockdown. It is certainly going to be intriguing to see which products rise to the forefront in the near-term.

For logistics providers, our role is to anticipate these evolving wants and needs and, if necessary, reengineer our warehousing and fulfilment operations to make sure that items are prioritised appropriately.

Resilience is key

During the UK's initial lockdown, mistakes were made across the logistics sector. To meet the expected level of online demand this winter it's important that these mistakes are not repeated. Supply chains must be strengthened. Mitigation strategies must be put in place proactively, not reactively. Whether you're an online trader or a fulfilment provider, your operational resilience must be given top priority. Customers are going to be relying on you more than ever.

<https://www.youtube.com/watch?v=prmYujhgODs>



Walkers awarded highest available accreditation by the BRC

Walkers Transport has been awarded the highest certification by the British Retail Consortium (BRC) Global Standard for Storage & Distribution.

Now officially an AA accredited facility, The BRC standards prescribe quality, safety and operational criteria to ensure that manufacturers fulfil their legal obligations and provide protection for the end consumer. It ensures the safe storage of packaging materials, ambient food products, and consumer goods including building products to customers mainly in the

food packaging, food wholesalers, supermarkets, machinery parts and building industries.

Chris Burley, Operations Director of Walkers Transport commented, "We are delighted to have been officially recognised by the BRC, achieving the highest available certification in new BRC Global Standards for Storage & Distribution. In the past six months, our 48500sq ft storage site in Birstall has had zero errors on damages, picking errors and scanning errors. Every member of our team is passionate

about continually improving our systems and processes – and the certification is testament to that."

The BRC is an international Food Safety Management Systems standard and is one of the Global Food Safety Initiative (GFSI) recognised certification schemes.

See what Walkers Can Do for you. For more information please contact sales@walkers-transport.co.uk or call 0113 220 2800.



Commercial recycling during a pandemic

The pandemic's effect on commercial recycling and waste processes is a less discussed but important part of commercial disruption. Rubbermaid Commercial Products, EMEA's Love Recycling research project recently released a report detailing their investigation into how commercial waste operations and planning has fared as a result of the pandemic's first six months.



Among the report's findings:

- 56% of businesses reported recycling practices were impacted
- 30% say recycling has gained importance because of the pandemic
- 86% will give recycling greater focus in coming years
- Implementation of dedicated PPE disposal may be as low as 20%

Paul Jakeway, Head of Marketing Rubbermaid Commercial Products, EMEA said, "Commercial recycling is a long-term project that changes and develops over time. When disruptive events like the pandemic occur, they have the potential to derail progress, or create setbacks."

"In the coming months European businesses will return to pre-pandemic levels of operation. In doing so they can implement and improve existing recycling processes, further develop their sustainability credentials and minimise their impact on the environment."

'The Changing Face of Commercial Recycling in Europe (part 2)' is available as a free download on lovereycling.com alongside previous reports.

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Turn work zones into safe zones

At Bar Code Data we are all about smarter ways of working, sharing these initiatives with our clients, utilising emerging technologies to do things better. Introducing the most advanced asset for managing your people and cleaning your warehouse devices in these COVID Times.

Zebra MotionWorks Proximity is a system to sense and alert frontline workers when they are too close to co-workers whilst at the same time offering contact tracing audits to quickly provide "who/what/where/when" information to nullify cross infection & transmission.

The company's proximity alerts, and contact tracing app are delivered via software updates on scan guns/terminals used on the shop floor, Zebra is working to certify as many of its existing Android devices as it can meaning minimal new investment in hardware is typically required.

WAREHOUSE WORKING

As you prepare your business – and your people – for the new normal, you need a proven solutions leader you can trust. Keep your employees safe, prevent shutdowns and support compliance with changing regulations, this is where Bar Code Data can help. With Bar Code Data's help the Zebra MotionWorks Proximity application manages contact tracing and helps employees reduce risk of exposure.

Our solution alerts and reminds employees to maintain social distancing proactively, while also creating a record of proximity events for reporting purposes. Our online dashboard helps you identify patterns where social distancing is not being maintained and ensure a safe working environment for all. Proximity installs remotely in a matter of days — with zero new infrastructure, it is modular so as you bring your business back to production you can scale up your operation.



DEPLOY WITH EASE AND SPEED

Zebra MotionWorks Proximity can be deployed easily in a matter of days. Quickly roll out the application to your existing supported Zebra devices, or purchase devices that are already configured and staged. This cloud-based solution is remotely installed and managed by Bar Code Data and requires no additional infrastructure investment.

ZEBRA MOTIONWORKS PROXIMITY SOFTWARE

The Zebra solution includes both an on-device application and cloud-based SaaS software. The on-device application runs the sensing algorithm and logs sensed data that is sent to the cloud, and also generates user-level proximity alerts. The cloud software is readily accessible via a web-browser, is managed by Zebra and includes 24/7 monitoring and support, all GDPR compliant. This software receives sensing data and applies analytics to

provide a view of current proximity events via a live dashboard, as well as a report for historical views for your management team to analyse. In the event of an exposure, our contact trace report allows your company to quickly and accurately determine potentially impacted employees, so you can notify them and take action.

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In conjunction with our MotionWorks Proximity application Bar Code Data also introduces the CleanSlate UV sanitising solution to clean your mobile devices. Mobile devices and tablets are very dirty operating in dusty environments and used via multiple employees, cross contamination at its worst.

CleanSlate UV has been tested via independent, 3rd party certified body MicroChem Laboratories. Any solution needs to be fast, easy-to-use and fully effective, CleanSlate UV can sanitise ID badges, watches, pens, glasses, and other hard, non-porous items.

For further information contact the Bar Code Data sales team:

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Coveya improves its conveyor range of Packaging, Manufacturing & Distribution



Coveya Ltd is a leading supplier of conveyors for packaging, manufacturing & distribution companies across the UK and it has recently added yet another conveyor to its portfolio.

With increases in demand from online sales and as the annual Christmas rush fast approaches, the Flexible Expandable Roller conveyor will efficiently

move cardboard and other materials by forming complex bends, contracting to a fraction of its extended length for storage.

This conveyor comes quickly after the launch of several other conveyor products for the packaging, manufacturing and distribution sector including; the Telescopic Gravity conveyor, High-Rise Telescopic Unloading conveyor and the LineShaft Powered Roller conveyor - all offer a versatile, modular, and economical solution for transporting light to medium products as well as loading and

unloading containers.

The Coveya team also launched earlier this year, Mist-Safe, an over conveyor sanitisation tunnel that has been designed in direct response to COVID-19. It enables the sanitisation of boxes, cartons, tech, and online returns, releasing a disinfectant mist which dries quickly whilst protecting up to 4000 cartons per day.

For more information visit www.coveya.co.uk, email sales@coveya.co.uk or call 0800 915 9195.



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Prologis launches Europe-wide initiative

Prologis is the first industrial property company to introduce a Europe-wide initiative to measure and reduce whole-life carbon emissions in all its new logistics buildings. Launched on World Environment Day (5th June 2020) and designed to support the United Nation's Decade of Action campaign, Prologis will extend its 12-year UK partnership with climate change charity Cool Earth, and sustainability certification company The Planet Mark. The aim is to raise sustainability standards across the European industrial property sector and drive meaningful change through social empowerment.

From June 2020, Prologis will work with climate change charity, Cool Earth, to fund the protection of rainforest to mitigate the equivalent of unavoidable carbon emissions in its new buildings across Europe. The programme will help Cool Earth to protect an area of rainforest 31 times larger than the area of each building. This draws on the results of detailed Carbon Life Cycle Assessments to ensure that every development achieves a net environmental benefit, targeting carbon savings that are 5 times greater than the embodied carbon footprint of each building. Partnering with the charity Cool Earth will allow Prologis to demonstrate a robust, science-based approach to the mitigation of climate change through the protection of rainforest. This has also been shown to have extensive benefits for society, culture and biodiversity.

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Innovvec Controls: providing

INNOVEC CONTROLS PTY LTD

Industrial Process News is proud to feature Innovvec Controls for its industry leading standards of quality and reliability across its entire range of instrumentation.

Established in 1987 by Rob Newman, Innovvec Controls is an Australia-based designer and manufacturer of process control instruments for the oil and chemical industries, and LED safety lighting products for public transport, which are



known throughout the world for their high quality and unbeatable reliability. Innovvec Controls' LED safety lighting is used extensively in Australia on Metro and suburban rail and tram networks, as well as freight rolling stock locomotives, and its process control instruments have been designed and produced to perfectly suit customers' needs. Innovvec Controls' process control range includes: additive injection controllers, alarms & level systems, automotive instruments, batch controllers & flow measurement, calibrators, motor positioners, process indicators, and totalisers.

Using this leading technology, Innovvec Controls is committed to its mission to increase customers' productivity and add true value to the industry. By providing reliable, accurate and user-friendly instruments, Innovvec Controls offers outstanding solutions with application-based designs and ranks among the leading providers of innovative products for niche market segments, a position which is enhanced by the company's strong reputation for quality products and competitive prices.

Innovvec Controls' flexibility and technical strengths are ideal for various markets with end users in mining, transport, utilities, and food processing. The company also produces micro-controller-based instruments, which involves the design of PCBs and a thorough knowledge of

the latest developments in electronic componentry.

Certainly, Innovvec Controls' customer base is vast, offering liquid batching and additive injection in explosion proof and standard housings, level measurements using ultrasound, and pressure sensors with communication using the mobile phone network to the cloud.

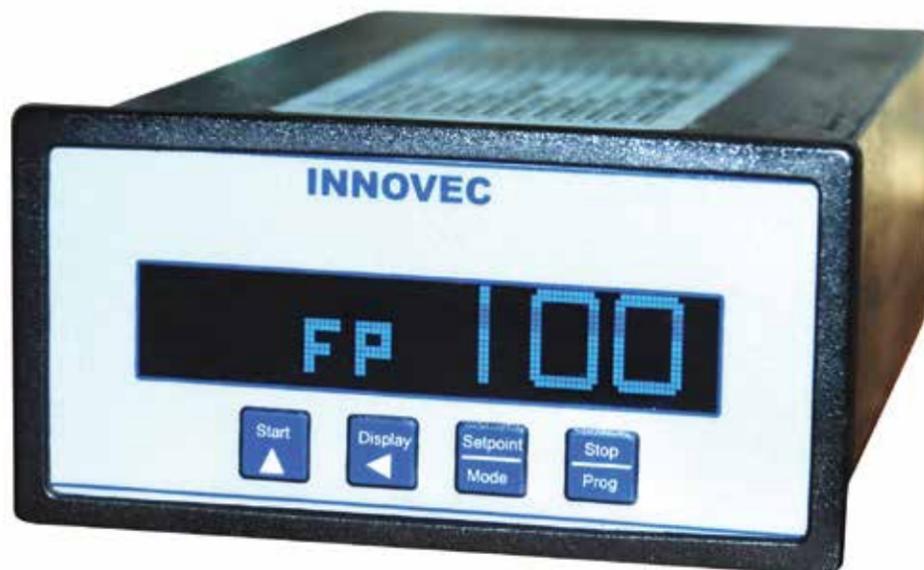
Batch controllers and flow measurement One of Innovvec Controls' particular ranges is its batch controllers and flow measurement, which includes products ranging from totalisers with an integral printer, which are used in truck mounted dispensing systems, to the IBS and IBL batch controllers, which are used for accurate control and two-stage batching in liquid transfer or repetitive filling of containers on a production line. These can interface to all industry standard flow sensors, be supplied in explosion proof or standard housings, and are user programmable, with digital or analogue inputs and relay or analogue outputs.

With a continuous programme of research, development and innovation, Innovvec Controls has released a new version of its IBS Batch Controller, which features numeric data entry. The IBS is an 85-

265VAC or 12-40VDC powered batch controller for liquids, incorporating a Blue Graphical OLED display. It can be configured from the front panel to batch volumes ranging from 0.001 to 999,999.99 litres.

Another product of note is the IBLEXD Batch Controller, an explosion proof

situations, the IBLEXD has a flawless backup plan to ensure that information is not lost. The instrument conveniently stores background running total in EEPROM memory during loss of power and incorporates a low flow alarm. The low flow alarm displays LF ERR if no pulses are received within a programmed period of time and the batch will be cancelled.



batcher for liquids. The instrument can accept inputs from 0 to 1KHZ which is input type selectable for all the common sensor types from 20mV peak to peak. The IBLEXD blends a 64 x 128 Mono Graphics (LCD) display with a fully integrated RGB (Red, Green and Blue) back light offering a wide viewing angle with a viewing distance of up to five metres. The panel switches at the front of the instrument are EXD approved with positive action. For rare emergency

IBL Batch Controller case study

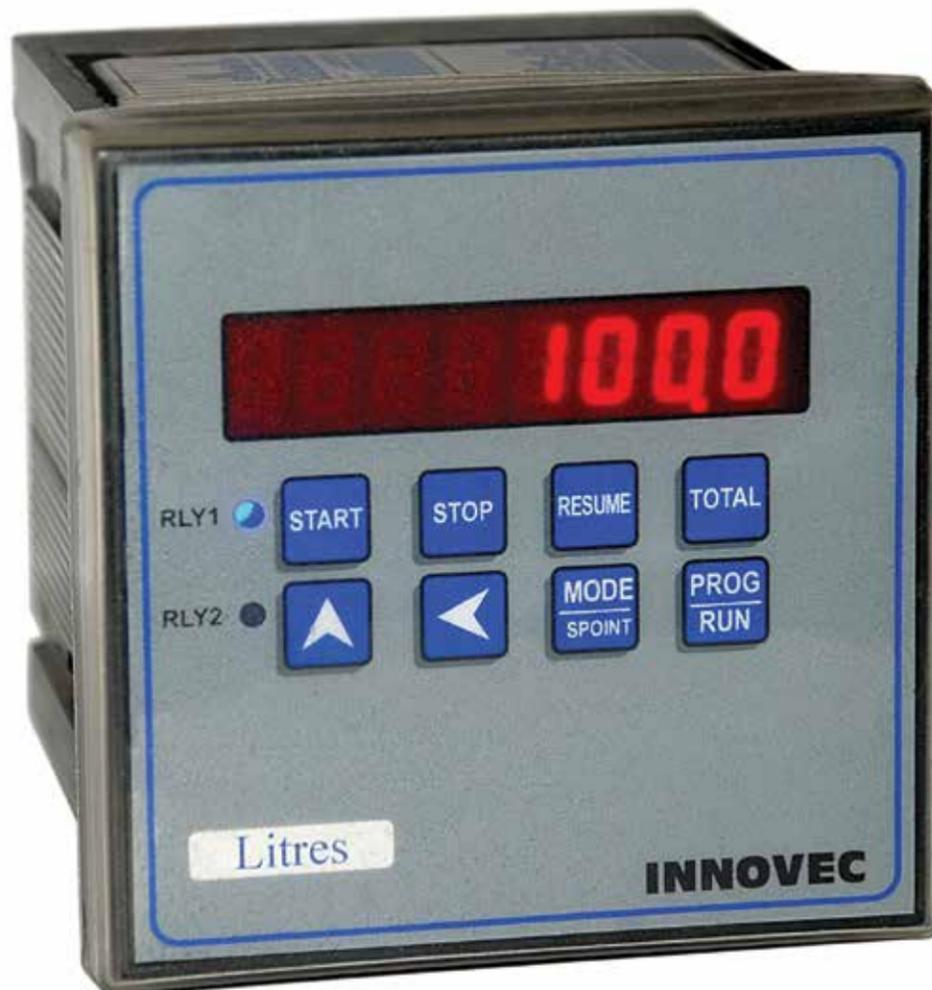
Increasingly, manufacturers are turning to Innovvec Controls' IBL Batch Controller. One example is a Melbourne chemical manufacturer, which chose the company's reliable technology to implement an eight-head filling machine.



Omega Chemicals needed to achieve more accurate volumes and greater output for each production batch, so turned to Innovvec Controls for help in implementing an eight-head controller to run pumps, take signals from magnetic flow meters and drive conveyors.

The Innovvec IBC Batch Controller allowed Omega Chemicals to accurately measure and batch from eight heads simultaneously. The flow of liquid chemicals to eight containers at once provided a smooth error-free production of filling systems, minimising downtime and maintenance costs.

Thus, the IBL Batch Controller offered Omega Chemicals a more cost-effective, better management of the batching process, which saved time and is more user friendly for staff.



solutions that work



Additive Injection Controllers

Innovec Controls also offers a range of additive injection controllers, most notably the IAC Additive Injection Controller for liquids. The device comes with one wild flow input, six additive flow inputs all galvanically isolated and is universally powered: 85 – 265VAC or 10 – 40VDC. The IAC incorporates a Mono graphics LCD display (128 x 64 pixels) with an RGB backlight which ensures that use is as easy and clear as possible.

With an advanced processor, open collector input for main flow and additive flow, twelve relay outputs and 1 x analogue input for temperature compensation, the IAC is a must have for any businesses needing simple to use injection controller solutions. The combination of the controller and additive injection unit offers a uniquely compact additive injection system which is configured by push buttons on an infrared remote control or RS485 communication via a host using industry standard protocols.

Process Totalisers case study

A few years ago, Innovec Controls' innovative CO8WP Powered Process Totaliser was used to help Tyrrell's Wines accurately measure the liquid flow of wine used in varietal wines. The wines needed to be transferred from wine tanks at Pokolbin into smaller containers for production runs, which was achieved using pumps on trolleys that are moved between the tanks. The amounts transferred by pumping were hard to accurately visualise on a per litre basis using existing equipment, and this process was highly time consuming.

Tyrrell's approached W.E. Ware, a South Australian manufacturer of quality stainless steel wine equipment and wine equipment supplier. W.E. Ware has extensive experience in liquid transfer and measurement in the food and beverage

industry and suggested an Innovec Controls Process Totaliser. This Innovec 'controller' displays the flow measurement from an existing flow meter. An Innovec CO8WP Powered Process Totaliser with user programmable K factor and 8-digit 25mm character height display was installed on the wine transfer pump units at the Pokolbin facility. The Innovec CO8WP Powered Process Totaliser allowed Tyrrell's to more accurately visualise, monitor and transfer the required amount of wine that needed to be pumped from each tank on the trolleys. It allowed for continuous monitoring of the wine flow per litre and



a 'pulse per litre' analysis. With its brighter and larger, high contrast LED display, the CO8WP Totaliser enabled the operator to count the liquid flow value to the required litres. The result was better management of the process which saved time and was more convenient for staff. Tyrrell's said the Innovec CO8WP met its technical and functional requirements and was a cost-effective solution.

LED Safety Lighting case study

As a testament to the quality and reliability of Innovec Controls' products, a Norway based railway company adopted Innovec Controls' simple but highly effective safety lighting for use on trains in the robust and testing conditions of the Arctic cold. The manufacturer was already using Innovec Controls' lighting, but this new challenge required four large holes on the front of the train, for aesthetic and cost-saving reasons, so they asked Innovec Controls for a more compact system.

The Innovec development team decided to combine the read and white marker lights into one system, to make the LEDMLD. This reduced cost dramatically for metal cutting and shrunk the need for four separate lights to just two, while increasing the aesthetic value of the vehicle to create a truly modern design. The LEDMLD continues to be sold on a global scale, from Port Augusta, South Australia, to the United States, all the way to the Arctic Circle in Norway and Sweden.

So what's next for Innovec Controls?

Since its inception, the company has grown impressively and expanded its customer



base to include numerous industries across the globe. Operating in markets in Australia, North America, Scandinavia and Asia, Innovec Controls remains intent on expanding its reach in the UK, India and the USA, and has witnessed admirable growth over the past few years.

With such an impressive range of products, Innovec Controls should be your number one choice for any of your process control requirements. Informed by decades

of experience and underpinned by meticulous health & safety and quality controls, Innovec Controls' range is sure to deliver exactly what you need.

If you would like to find out more information on Innovec Controls' full range of products, get in touch using the contact details below.

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READERSHIP COMPETITION

As part of our readership competition, you could be in with a chance of winning £100 worth of high street vouchers by simply answering the questions below.

1. Who established Innovec Controls?
2. When was the company established?
3. What is the name of the explosion proof batch controller?
4. What company is featured in the IBL Batch Controller case study?
5. What product was used to help Tyrrell's Wines accurately measure liquid flow?
6. Where was the LEDMLD used in the featured case study?
7. Name three product types featured in Innovec's process control range.
8. In which country is Innovec Controls based?

Email in your answers to enquiries@industrialprocessnews.co.uk and find out if you're the lucky winner!



A cost-saving alternative to traditional cable glands



Foremost Electronics announces new additions to Icotek's range of cable entry plates, the KEL-DP 25 version A and KEL-DP 32 version A and B. KEL-DP products offer high cable density and are a simple to use cost saving alternative to traditional cable glands.

The KEL-DP is a hygienic design, free of dirt-collecting recesses and provides environmental protection IP65 / UL type 12. The new products fit standard metric M25 and M32 cut-outs and, depending on the model up to 13 different cables can be inserted through a single glad. The KEL-DP range can accommodate cable diameters from 5.2mm to 8mm and are suitable for mounting in enclosure wall thicknesses from 1.5mm to 4mm.

T 01371 811171
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www.4most.co.uk

The 3D Printing / Additive Manufacturing landscape in the UK moving forwards

The GTMA has identified over 500 UK-based companies across the country working in 3D Printing (3DP) / Additive Manufacture (AM) as a core element of their business operations. Many more are using the technology and optimizing design of components to maximise the benefits of moving to this technology as a route to production.

We have recently undertaken a survey of the UK-based 3D Printing (3DP) / Additive Manufacturing (AM) community to gain an insight to what is happening around the country.

Key findings from the survey include significant adoption of metal powder as a building material. The early days of commercial adoption was based around resins, plastics, and other synthetic polymers including binders for building sand casting cores. This growth of metal powder manufacture reflects improvements in the processing technology, availability of a wide range of metal alloys, and commercial demand. From the survey findings over one third of material suppliers to 3DP/AM companies are offering metal powder; and over half the companies responding to us are producing metal components and tooling.

As the 3DP/AM technology becomes more widely adopted and better integrated with other manufacturing technologies we will see further growth in metals manufacture and other high strength high value materials.

The UK Government has launched 'Project Defend', a review of the security and supply of critical services and products as we emerge from the COVID-19 pandemic. This emerging industrial strategy will include bolstering manufacturing supply chain capability in the Midlands and North of England. The focus will be on how to reduce reliance on one country or region, mitigating risk and ensuring resilience in the face of spikes in demand.



For further information please email
alan@gtma.co.uk
Alan Arthur, Chief Technical Officer, GTMA
0121 3928994

Manufacturing industry optimistic for recovery from COVID-19 despite supply chain concerns

A new survey from SteelScout has found that more than 60% of professionals in the manufacturing industry expect the sector to recover from COVID-19 and return to business as usual by mid-2021. However, they highlighted issues in the wider supply chain which might impact the recovery, with almost 30% unable to access the materials they need and 36% adding that it is taking longer just to receive a 'winning quote'.

One key driver behind the confidence in recovery is that 62% of respondents reported having orders waiting to be fulfilled once lockdown rules have eased. The orders on hold within SteelScout's survey base of 100 people exceeded £17m in value.

In order to fully understand the impact of lockdown on manufacturers and their supply chains, SteelScout - a multi-supplier procurement platform that connects buyers with a UK network of suppliers - sought the opinions of more than 100 manufacturing professionals to gain insight into the current state of affairs.

The survey demonstrated that it has been a tough few months for the sector, with more than half of respondents reporting that they have been working at a reduced capacity or with some

staff furloughed. More than 10% of respondents reported whole companies being mothballed and all staff furloughed.

Almost 80% of those surveyed reported that they have adopted new working practices to deal with rules and guidelines around lockdown in the UK. The most common change was remote working, which was used by 49% of those surveyed.

To solve the identified supply issues, greater visibility and more alternatives in the supplier network were the most called for improvements, whilst having an easier method to collect and compare quotes was also selected by many in an effort to reduce basic admin costs and save time.

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When performance and reliability really count

Medical devices
From specialised patient beds to ventilators, the IKO C-Lube M Linear range has proved to be an excellent choice for a few reasons: the range of sizes and configuration, the maintenance-free capability, the low torque smooth motion and the compactness of the units. These units can be modified to handle high temperatures and chemical wash down where required in the form of stainless steel versions.

Surgical tools
From oncology equipment to surgical robots, IKO's CRB and CF series have been the go to products for many because of



the broad range of the products. The CRB range has a super slim S type with a width of 5mm and a thickness of 5.5mm, the F type flanged bearing with mounting holes for easy installation, the excellent sealing properties and smooth motion under complex loads. The cam follower (CF) range has now been extended to incorporate the C-lube technology, maintenance free SG type and the additional add-on of the CL unit to lubricate the outer ring making it totally maintenance free.

Life science equipment
From sampling to automated analysing equipment, the IKO C-lube MAG Ball-Spline units and BWU high rigidity precision slides come into their own. MAG utilises the maintenance-free system, with four point contact giving added rigidity, the standard low frictional resistance and smooth movement. BWU simple limited stroke, stainless steel unit, for fluctuating and complex loads with speeds up to 3m per second.

The old adage is that a bearing is a bearing is a bearing. But is it right? Well over the years IKO has seen a distinct change in how it categorises bearings, especially in the linear



business. They would be transit linear and precision linear and IKO would fall into the precision end of the market. The processes used in the manufacturing of IKO's products are to a standard that would probably fall into the over-engineered category but that's why IKO sits where it does in the market.

IKO knows that when it works with customers on applications such as the examples above (plus many more industry sectors) not only has it got the application knowledge to make suggestions, but also the company knows that the product will always back it up.

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Avoiding slow motion will keep manufacturers in top gear



During these unprecedented times manufacturers in the UK not only need automated processes to boost productivity and speed to market so that they can remain competitive, but they also require production machinery that is ultra-reliable and can operate at the required capacity, says APEX Dynamics a leading supplier of high-precision gearboxes.

The coronavirus pandemic has led to a different way of working for manufacturers, with enforced social distancing measures implemented in the workplace area to create safe spacing impacting on operations, exacerbated by staff that have been furloughed or affected by the virus taking time off.

A reduced workforce in any company can interrupt production, whether they are going flat out to meet the surge in demand during the crisis, such as in the food, pharmaceutical and e-commerce sectors, or trying to get back on their feet following the lockdown like the automotive and aerospace industries. That is why it's even more vital for machinery to avoid any unnecessary downtime.

Companies are always looking for an edge, a way to stand out from the competition and offer a service just that bit better, quicker and more attractive to potential

customers. Commercially, it makes perfect sense to use all tools available to optimise the manufacturing process and increase productivity – especially during a national crisis.

Manufacturers need to decide when working with a supplier what their capabilities are and how they are structured for the 'new normal'. APEX Dynamics' UK Sales Manager, Andrew Parsons, does not think requirements have changed from reliable delivery, quality product, competitive costing and great service, but the current situation may have repercussions for how suppliers can now perform.

He says, "Automation is a key area for being able to handle social distancing and production capacity – highly automated processes they require less close operator interaction. In turn a reliable motion control system is critical for keeping production lines operating to maximum effect by reducing the amount of time lost for manual intervention.

"Reliable deliveries and service are more important than ever, so a supplier must look at what the lead times are and how that fits in with their build times. APEX Dynamics has remained unchanged in the crisis, still offering three-week deliveries on all standard products and the only five-year warranty in the industry, with video conferencing available to discuss applications."

As well as the advanced manufacturing facility, which includes the full product heat treatment process and gear cutting, APEX Dynamics has patents for its gearboxes that offer unique advantages, such as the bearing mounted sun gear, planet carrier design, input and output sealing with hi-tech ball burnished surfaces and Teflon-coated Viton seals allowing high efficiency and low heat.

But beware imitations. Production machine manufacturers can best serve their reputation and customers' interests by choosing a reputable precision gearbox supplier and not be tempted by phoney offerings on the internet, usually from sources in Asia, that do not meet quality or warranty

standards. Parsons comments, "The optimum design, material and construction of our gearboxes cannot be copied. Although imitations may look very similar from the outside, they won't have the same performance, quality or five years warranty that APEX offers, which can lead to early failure, more downtime and a risk of reputation damage.



"Optimum design, lubrication and sizing is key to ensuring the lifetime of gearboxes is as long as possible. Special cut channels on the planet gears allow lubrication to flow to the needle bearings during rotation increasing circulation through the bearing, reducing heat build up and increasing life."

While cheap impressions of the real thing can ultimately derail the efficiency of production lines, backlash within high precision machinery can also add lost motion to a system, decreasing positional accuracy and affecting performance.

Reducing backlash to a perfect zero has been the holy grail for precision gearbox manufacturers and, whilst some companies may claim this level of perfection, it is in actual fact an impossible goal. However, it is possible to supply precision-built gearboxes that can keep operating to maximum effect by ensuring extremely close-tolerance alignment of components in a motion control system.

Building an ultra-precise gearbox to obtain near-zero backlash requires taking measures to avoid workmanship defects such as incorrect tolerances, bearing misalignment and manufacturing inconsistencies which all tend to increase the risk of more backlash. To achieve as close to perfection as possible it is necessary for gearbox manufacturers to invest heavily in specialised tooling and procedures in order to yield the end result of higher accuracy.

Today's current climate presents huge challenges for manufacturers and suppliers alike. Highly reliable automated processes require less close operator interaction, which will be key to manufacturing at the required capacity during and after social distancing.

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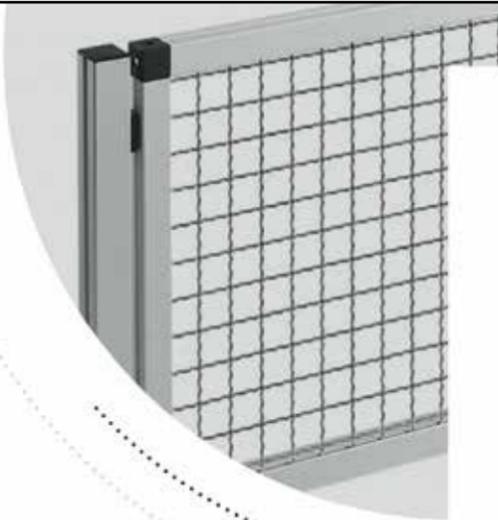




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British Encoder Products (BEPC) is the European branch of the Encoder Products Group, a worldwide manufacturer of motion sensing and control devices. As a customer driven company, BEPC is highly responsive in the areas of customer service and technical support, with an acute focus on high performance, excellent delivery and competitive pricing.

In addition to its wide selection of incremental and programmable encoders, BEPC has released its new range of absolute encoders now also with the PROFNET protocol, which provides a unique code for each increment of shaft rotation. This means that the encoder indicates both that the shaft position has changed, and the absolute position of the shaft. Now available with up to 16 bits for single turn resolution and 43 bits for multi-turn resolution, our encoders can measure with greater resolutions and have a longer run-time before reset.

This range is ideal for systems which need exact position information in order to prevent damage to machinery and its operators. This is also particularly valuable during power loss when the absolute encoder will maintain its value without being powered, so any movement during the loss of power is tracked and retained for immediate transmission once power is restored.

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Site Safety Company of the Month

Protect your site and workers with Metal and Modular's dedicated equipment

Industrial Process News is proud to announce that Metal and Modular has been selected as our Site Safety Company of the Month.

With Metal and Modular's comprehensive range of 'Site Safety' equipment, everyone knows where to find what they need to get the job done, saving time, improving performance and getting projects completed on time and on budget.

With its in-house design expertise and manufacturing capabilities, Metal and Modular is an innovator in the development of high quality safety and security solutions for tools and equipment, helping to prevent theft and accidents on site. With robust and simple-to-use solutions Metal and Modular supplies the hire industry, construction contractors and subcontractors, and the manufacturing and engineering sectors to name but a few.

The company's entire range is designed and built in the UK and includes Site Vaults, a range of Auto



Braked Trolleys, Cutting Stations, Pipe Stores PipeRacks and Heavy Duty Work Benches, as well as low-level access accessories.

Notably, Metal and Modular has developed its Anti-Climb Guard for Power Tower's

EcoLift and PecoLift vertical manlift systems. Fully-approved by Power Tower, the system is easy to fit and meets all weight and weight balancing requirements to provide a proven solution to un-safe use of Eco and Peco vertical manlift equipment.

Fabricated from steel mesh and sheet steel, the Metal and Modular Anti-Climb Guard works by preventing operatives from using the



lower handrail as a step, thus preventing them from climbing onto the upper handrail. The system deflects the foot to prevent any purchase on the handrail and is firmly held in place by tamper-resistant bolts.

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

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

Metal and Modular is also renowned for its range of patented Auto-Brake Trolleys.

This includes the Panel Trolley, the Load Trolley and the Ductwork Rack Trolley all of which are compliant with BS EN 1757-3-2002. The trolleys' Auto-Brake system functions automatically when stationary and is always on for trouble-free loading, unloading and safe storage. To safely manoeuvre the trolley you simply operate the hand brake levers to release the Auto-Brake.

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



Although the construction industry took a hit during the initial months of the COVID-19 outbreak, Metal and Modular is now seeing positive signs of recovery with business increasing significantly over the last two months.

"We're bringing out new designs all the time, and this didn't stop during the pandemic. We carried on designing and we'll be launching some new revolutionary products in the coming months," Lynne explained.

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

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Training & Development News

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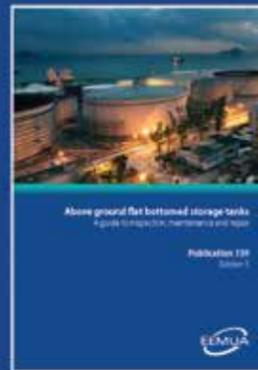
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Watlow's LEGACY SERIES Controllers Offer Simple Menus

Watlow®, an industry leader in the design and manufacture of complete thermal systems, introduces its LEGACY SERIES panel-mount temperature controllers. These industry-leading PID controllers offer simple control without complex features making these controllers ideally suited for basic applications and usage levels.

Standard bus communications are available on LEGACY SERIES controllers allowing for easy product configuration via PC communications protocol and free software. This saves time, simplifies programming and improves reliability of controller setup. LEGACY SERIES controllers offer many additional benefits as well including PID auto-tune for fast

and efficient startup, a touch-safe package for increased operator safety, a SMOOTH-TOUCH™ keypad eliminating contamination points on the front of the controller and creating a better seal on the front panel as well as a function key for simple, one-touch operation of user-defined, repetitive activities.

Additionally, LEGACY SERIES controllers work with Watlow's EZ-LINK™ mobile application that connects quickly and easily via Bluetooth® wireless communications for easy controller setup and monitoring. "Many times, our customers require a simple controller rather than one of our more powerful and complex controllers, and we want to make sure we

provide what is truly required rather than trying to up sell to a controller with features that are not needed," said Andy Borkowski, product manager. "Watlow is proud to offer the LEGACY SERIES as a practical and economical option for basic applications in a variety of industries."

The LEGACY SERIES is available in a 1/16 DIN panel mount package and will be followed soon by a 1/32 DIN. They can be ordered as PID process controllers or as dedicated over and under-temperature limit controllers.

For more information, visit www.watlow.com.



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Increase the pressure with annular space heat exchangers



Annular space heat exchangers, such as the HRS AS Series, work by passing the product through the gap between the inner and outer tubes (the annular space), which makes them suitable for thick, highly viscous products such as fruit purees, thick sauces, honey and syrups.

The advantage of such a design is that it ensures even heating or cooling of the product, while the use of HRS corrugated tube technology increases heat transfer and energy efficiency, as well as reducing product fouling on the tube surfaces.

HRS produces both a three- and four-tube version of the AS Series (the AS 3 and AS 4) to facilitate different arrangements and couplings of service fluid. The thicker wall on the AS 4 series means that up to 25 bar of pressure can be achieved as standard on the product side, but for some applications even higher pressures are required.

One common example is the sterilisation of tomato puree using multiple heat exchanger modules. Because of its viscous nature and the number of heat exchanger modules that may be involved in large-scale treatment (sometimes as many as 20 or 30 elements), the product needs to be pumped at considerable pressure. The physical properties of such fruit purees mean that this high-pressure handling does not adversely affect the quality of the product.

For such applications, HRS offers a high-pressure version of the AS Series. This includes thicker tube walls around the product, while the service fluid (usually water or steam) remains at standard pressures of around 10 bar. The design means that process pressures of up to 150 bar can be accommodated on the product side of the heat exchanger, making it ideal for applications such as pasteurising and sterilising tomato and strawberry purees.

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Health & Safety News

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Euchner's new Compact CTM Safety Interlock

Machinery safety experts, Euchner, have launched a new range of compact and highly secure locking switches with models perfectly suited to hygienic applications in food & beverage plants where cleanliness is critical.



The interlocks feature high-level coding using transponder technology and an advanced diagnostic capability that provides excellent resistance to misuse, especially where motivation for defeating the safety systems on the equipment is likely. Information, such as actuator tampering, operating temperature, etc. can be used by the control system to ensure the maximum 'up-time' of the equipment. The compact dimensions of the CTM interlock, which is just 120 x 36x25mm, makes this one of smallest locking devices of its type.

Manufactured from strong, food-safe materials, the hygienic CTM is approved to EU Regulation (EC) No 10/2011 and is full of features including rounded edges, smooth food-grade surfaces, special FKM elastomer sealing designed to eradicate possible gaps and INOX 316L stainless steel fixings & actuator pin. Achieving an ingress rating of IP69, the switch is completely watertight and can be intensely pressure cleaned without the worry of any moisture ingress to the unit.

David Dearden, Euchner's UK&I Country Manager, says: "With all the attributes of the standard CTM Interlock, plus additional physical enhancements for ensuring environmental safety, the hygienic switch is specifically designed for use in situations where cleanliness is paramount, including food and drink manufacturing or dairy processing industries for example."

To find out more please email sales@euchner.co.uk or visit www.euchner.co.uk.

DMN-WESTINGHOUSE UK Lands Multi-Unit Order for BTD Diverter Valve



Against stiff competition, DMN-WESTINGHOUSE UK has just won a significant order for BTD ball-type diverter valves from a major customer in the aggregates sector.

The BTD is specially designed to handle abrasive products, such as aggregates in asphalt plants. However, in power stations and incinerators, BTD's have been installed as part of systems to handle bio-mass media and fly-ash. Elsewhere BTD's have been installed in foundries and cement works and are used in the glass, ceramic, limestone, gypsum, and chemical industries. In short, just about any industry that processes an abrasive product.

As the BTD was specifically designed to be a part of a pneumatic conveying system, it had to be capable of retrofitting in addition to being installed as part of a new system. So, to make the job of both the system designer and maintenance/installation engineer a little easier, the BTD can be installed in a variety of different ways, including vertically. Once installed, the conditions in which BTD diverters operate are going to be fairly harsh which is why a great deal of consideration was given to maintenance. Consequently, the main seals are easily accessible by removing the two side covers while the valve is on site.

The housing of the BTD is manufactured from ductile, spheroidal cast iron and because of the way that it has been designed, it can handle positive pressures up to 6 bar g and negative pressures up to -0.5 bar g. Product flowing through the straight leg of the BTD has an uninterrupted flow. However, once the valve is set to divert, the product itself provides a wear surface thereby protecting the valve's internal components. Also, The BTD can be used for either diverting (One leg into two) or converging (Two legs into one).

The BTD is available in 7 sizes from 65mm to 250mm and versions conforming to ATEX 2014/34/EU are available.

For more information on the range of DMN-WESTINGHOUSE rotary and diverter valves, please phone 01249 818401 or visit www.dmnwestinghouse.com

Talisman Plastics teams up with Intouch to deliver NHS equipment

Malvern-based Talisman Plastics has implemented the pioneering Intouch i4 Cloud software in all of its 27 injection setting machines, helping the company to successfully meet the increased demand for medical products during the COVID-19 pandemic.

Talisman is a key provider of secure seals to the NHS, with two of Talisman's 27 machines producing this vital equipment. The application of Intouch's system meant that Talisman could recently switch their machinery to 24/7 operation, facilitating the production over 350,000 units a week.

Intouch i4 Cloud allows Talisman to leave the machines completely unmanned during the 48 hours of the weekend, increasing production whilst keeping its staff safe. As a result, Talisman has increased the overall operational efficiency and

successfully navigated the heightened demand due to the Covid-19 pandemic.

Ewelina Skalska, Production Manager at Talisman Plastics, said: "Our efficiency target with producing NHS equipment is 95%, and because we are able to react quickly to any issues causing downtime through the InTouch alert system, the target has been generally matched and even surpassed."

The software is set to benefit all of Talisman's customers, with improved scheduling, planning and monitoring of cycle times. It also monitors quantities produced against each works order, as a result customers can expect an increase in productivity and lead times.

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RENMAR PLASTICS MACHINERY



Renmar Plastics Machinery are the UK distributor of Italian manufactured plastic granulators from Engin Plast.

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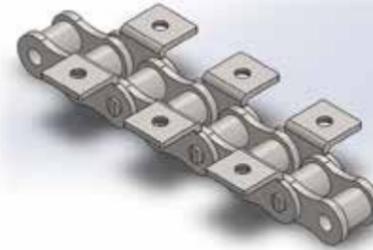
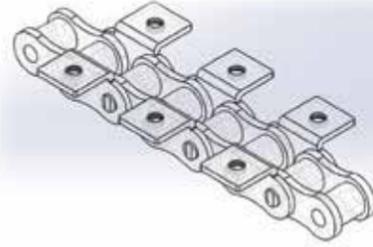
to manufacture special attachment chains for the full range of transmission and conveyor chains in steel, plated (nickel & zinc) and stainless steel all under one roof. They also manufacture special pitch chains from scratch with precision laser cut plates and machined round parts, all done with the help of their own in house CAD design, these are truly UK manufactured chains.

of lathes, milling machines and keyway presses to enable them to offer a complete service.

In addition to all the above they also stock a full range of steel and stainless steel double pitch chains and hollow pin chains which are imported from factories in Europe (Spain & Italy), also they have a full complement of agricultural chains and attachments so they can provide a speedy service for these chains when needed.

For more information about how LDA can help with your chain and sprocket requirements please get in touch.

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Around seven years ago they added a machining department to the business, this allows them to offer a sprocket manufacturing programme to existing and new customers which perfectly complemented the chain side of their business, bringing their costs and prices to customers down in the process. They now have a range

LDA Transmission Engineering Ltd now boasts a strong customer base in the distributor market as well as supplying a number of OEM customers

Industrial Process News is proud to announce that LDA Transmission Engineering Ltd has been selected as our Chains & Sprockets Company of the Month.

Established in 1980, LDA Transmission Engineering Ltd has grown from a local distributor of chains, sprockets and related products into a manufacturer of bespoke industrial chains and sprockets.

Originally supplying local end user business, over the years they have developed and changed their approach and now have a strong customer base in the distributor market as well as supplying a number of OEM customers. From a small beginning in a two roomed office they now occupy a modern site, on a busy industrial estate, which houses their offices and manufacturing facility.

The chain manufacturing workshop is equipped with a range of assembly presses, including a new 50 ton hydraulic press, spin riveting machines and large steel benches for assembly and inspection. This allows them

Shaping the future of welding technology

Industrial Process News is proud to announce that ESAB has been selected as our Welding Technology Company of the Month.

ESAB is a global leader in welding and cutting products, with presence in around 145 countries, over 35 manufacturing facilities and more than 10,000 employees across the world. Offering everything from cloud-based digital solutions, automated cutting and welding systems for shipyards, industrial systems for structural steel fabricators to portable inverters for small shops, ESAB provides the industry's broadest portfolio.



power source, the Aristo® 500ix power source and new Robust Feed Pulse and Robust Feed U6 wire feeders.

there has been some uncertainty this year due to the pandemic, we've remained strong thanks to being a diversified global business. Of course, we have put the health and safety of our customers and staff first, by limiting travel, increasing cleaning and allowing employees to work remotely. Now things are back on the up, we're looking forward to seeing what's next for ESAB."

"Robust Feed defines a new category: the advanced portable wire feeder that combines performance, durability and versatility. Users can standardise on one style of feeder for all applications, simplifying maintenance, logistics and training," says Woodford. "Warrior and Aristo use energy-efficient inverter technology, as will a new series of MIG-only heavy industrial inverters launching in Q1."

To find out more information, head to the website or get in touch.

Contact
T 01992 768515
esab.com

Robinson notes that, "We're always working on growth and developing the company. Although



management, productivity, quality and traceability/documentation."

The newest introduction, WeldCloud Notes, helps maintain quality and compliance while managing procedure qualification record and welding procedure specifications documents in one place. A company can generate a PQR or WPQ (weld procedure qualification) with all essential variables, reducing the burden of time-consuming tasks and eliminating sources of human error.

Cheron Robinson, Regional MARCOM Manager Europe, adds that another differentiator for the company is that, "ESAB can offer a single-source solution where all the equipment is optimised to work together, so we can work toward improving the customer's operations, not just sell a single product."

Recent ESAB product releases designed to meet the needs of fabricators and manufacturers include a solid filler wire for galvanised steel (Aristorod® 38 Zn), a metal cored wire for designed to improve yield strength with high strength steel (Coreweld 55 LT H), the powerful Warrior® 750i multi-process



And, it's not just the products it sells that positions ESAB as an industry leader. Having been established for over 115 years, ESAB innovative solutions include creating product categories that have revolutionised the industry.

"For example, we are leading the charge into the world of Industry 4.0 with the ESAB Digital Solutions suite of online management tools," says Paul Woodford, Marketing and Aftersales Manager UK & Ireland, ESAB Welding & Cutting Products. "ESAB works with fabricators to drive continuous improvement in four major areas: asset

WB Coatings using Dürr robot to develop innovative paints

During the development of new special paints, WB Coatings reached its limits when it came to the usual manual application. That's when the global paint and coating manufacturer came up with what seemed a rather unconventional idea for its industry: to add a compact painting robot from Dürr to its lab. This enables fully reproducible coating layer thicknesses in the μ range that are absolutely essential in the development of chrome-effect paint systems, for example.

The pre-installed, ready-to-paint robot from Dürr is a professional solution for automated paint application. With coordinated and tested components, it is tailored to the requirements of the general industry – a combination that

makes it unique on the market. WB Coatings is the first paint manufacturer to use the "ready2spray" robot in the development of its new products.

WB Coatings has been known for its innovations for more than 135 years. Not only did it invent hammertone paint, but also many other special coatings. To this day, it is intensively engaged in research and development. The in-house lab continuously optimizes the recipes for the traditional industrial paint sector, while the innovation center focuses on new developments for various sectors. One new product is a chrome-effect paint that can be used, amongst others, for vehicle interiors. It gives components made from plastic, such as window lift switches



or decorative trims on the steering wheel, a deceptively realistic chrome look. WB Coatings achieves this effect using paint systems consisting of one, two or three coating layers. "Without using a robot, we would not have been able to develop these new paint systems as a chrome-free alternative for shiny, silver-colored surfaces. The challenge is to apply the coating layers of the chrome-effect paint very evenly. And the three-layer paint system in particular needs very thin, reproducible coating layers of 2 to 3 μ m. This is something even highly experienced hand painters can't achieve," explains Andreas Ohletz, Head of Sales for Innovations at WB Coatings.

To meet this requirement, WB Coatings opted for an automated painting solution from Dürr. It consists of the compact six-axis robot EcoRP 10 R1100 with state-of-the-art application technology including mixing and dosing technology for two-component paints (2C), paint supply systems, and controller.

Industrial series production modeled in the lab. The robot system's automated spray program eliminates any deviations, and thus delivers maximum reproducibility. This starts with

dosing the components in the exact same ratio every time. Mixing the tiny quantities of just a few milligrams by hand poses too great a risk of inaccuracies. The painting result is also influenced by the application speed and the distance from the object to be painted. These factors inevitably vary with manual application, while the robot works completely uniformly and as a result also produces identical coating layer thicknesses.

Robot for complex 3D geometries

Normally only sample panels and speed shapes are painted in the paint manufacturers' labs. The flat spray system WB Coatings originally had in mind would have been sufficient for this. However, Sebastian Grammer, Head of Development in WB Coatings' innovation center, is convinced that the decision to opt for the six-axis robot will give the paint manufacturer the flexibility to respond to customer requirements in the future: "The robot lets us paint 3D objects with complex geometries. With a 2D spray system, we would have limited ourselves in what we could develop."

Ready to spray in no time

Since the application technology is already pre-installed, the Dürr robot system at WB Coatings was set up, installed and ready to paint within just a day and a half. Its compact dimensions enabled it to be integrated into the existing painting booth despite the space constraints. When the robot is in the parked position, painting by hand is still possible in front of the same extraction wall.

www.durr.com



The perfect laser for any application

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

Indeed, Z-LASER offers the complete toolbox to ensure they can build the perfect laser for every application. The company can offer bespoke solutions and OEM lasers have been part of the

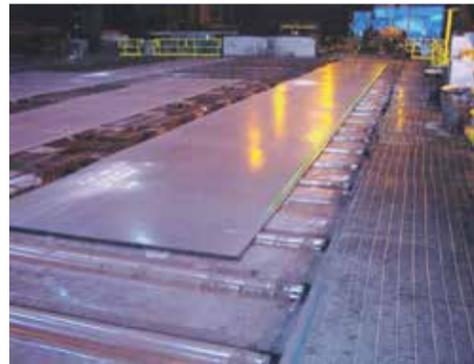


company's services for decades; there is no doubt you will find the optimal laser for any application when you choose Z-LASER.

These industrial lasers are available in a vast range of versions and variations. All you must do is select the desired parameters in the product finder, such as line laser, cross laser, and laser

projector, or even wavelength and output power, and the product finder will filter the catalogue to match your requirements, finding the perfect laser for your application.

Working with customers across the world, Z-LASER has over 60 partner companies globally to help guarantee a perfect service wherever its customers are, and its products can be found in nearly every industry. This is no doubt in part



due to the company's dedication to constant development and its creative approach. "We are strongly driven by innovation," said Marcel Rottler, Head of Marketing. "More than 30% of our staff is working in our research and development department, something which is reflected by our slogan 'Bright Ideas'."

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



Dr. Hans Ebinger, CEO of Z-LASER

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

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

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Quality Made in Germany - that's RENNER! In 1994 Annette and Bernt Renner founded the company in Güglingen, Baden-Württemberg. What started out as a garage with three employees has since developed into an international company with over 180 employees. RENNER compressors are manufactured with the most modern production processes in every size and finish. From small mobile piston compressors to large SCROLL and screw compressors for industrial installations - compressors from Güglingen are represented all worldwide.

www.renner-kompressoren.de

Machining News

Prüftechnik ShaftAlign Touch laser alignment system

Prüftechnik ShaftAlign Touch laser alignment system is a new digital solution that exceeds the capabilities of conventional tools and delivers greater speed and accuracy.

The user-friendly system combines premium single-laser technology with Active Situational Intelligence to empower teams of varying experience levels to align most any asset with new levels of precision and speed. Prüftechnik Adaptive Alignment systems, such as the ShaftAlign Touch, automatically eliminate user errors and low-quality measurement points by adapting to the

asset, the alignment situation, and the technician who is performing the job. Cloud-compatible software allows newer technicians to share measurements with more experienced colleagues or consultants - inside the plant or across the globe - to complete a job.

ShaftAlign Touch is the latest addition to the family of Prüftechnik Adaptive Alignment laser systems. Adaptive Alignment is a combination of software and hardware that enables maintenance and reliability teams to adjust to most any horizontal, angular, or vertical alignment challenge. With Adaptive Alignment solutions, work is

completed faster, results are more accurate, and team capabilities are better utilized compared to other market solutions.



For more information on the Prüftechnik ShaftAlign Touch, visit <https://www.prueftechnik.com/en-US/Products-and-Services/Alignment-Systems-for-Rotating-Machinery/Shaft-Alignment/Shaft-Alignment-Systems/SHAFTALIGN-touch/>.

Services for the sheet metal industry

PressCare UK Limited is a West Midlands based engineering company predominantly operating in the fields of power presses, coil handling equipment & automation systems. We offer a comprehensive range of services to the sheet metal industry including servicing, safety inspections, electrical & mechanical repairs, preventative maintenance programs, installations, commissioning, guarding solutions & CE marking.

We offer a comprehensive range of ancillary equipment including tool protection (load monitors, component/misfeed detection, etc), strip lubrication, scrap removal & energy saving systems.

One of our specialities is the design & integration of machine control/safety systems, ranging from minor safety upgrades to complete rewires. From a modern multi-press line to an older ring frame machine, we can design, manufacture & integrate a new state-of-the-art control system to bring your press shop equipment into line with the latest safety standards.

We have a number of global manufacturing partners allowing us to tailor an individual process solution to your requirements. We provide a comprehensive service from initial advice on the correct equipment for your application to installation, guarding & commissioning, warranties, after sales technical support & ongoing preventative maintenance. We also carry an extensive range of spare parts here in the UK.

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Engineering Solutions Live 2020

ENGINEERING SOLUTIONS LIVE
12TH MARCH 2020 | BRITISH MOTOR MUSEUM, GAYDON

Engineering Solutions Live took place on 12 March 2020 at the British Motor Museum, Gaydon. The event brought together four key engineering technology areas under one roof: Engineering Materials Live, the FAST Show, Make Measurement Matter and PCB Design & Manufacturing Live.

Created with the busy engineer in mind, this unique, one-day event avoided the hassle of traditional trade shows by focusing on identifying solutions and learning about new techniques and technologies. The event built upon the power of established successful exhibition brands, as well as including newer, complementary elements

that offered time-poor engineers a broader and more valuable visiting experience.

The event included numerous technical workshop sessions led by industry thought leaders, and offered the chance to network with industry peers. There were also over 100 market-leading engineering and manufacturing suppliers in attendance, making it a must-attend event for all engineering, design and manufacturing professionals.

The next event will take place on 11 March 2021, and will follow all recommendations and guidelines on the health and safety of visitors, exhibitors and staff in light of COVID-19.

This is our pick of the best exhibitor from this year's show, listed here: The Sempre Group. Further details can be found on this page.

www.engineeringsolutionslive.co.uk

Biography — The Sempre Group

The Sempre Group was established to help British and Irish manufacturers improve productivity, reduce human error and demonstrate compliance in quality control.

The company works with clients as partners to select the best solution from a comprehensive range of metrology systems and software. Sempre provides tailored, efficient solutions with expert support to help businesses achieve tangible outcomes.

Quality 4.0

Compared with major competitors, the UK's productivity lags. However, studies show that British workers put in the longest hours in the EU. So, where are we going wrong? In our experience, UK industry has been slow to adopt

technology, particularly in quality control.

To up its productivity game, British manufacturers should consider adopting a fully digitised approach to quality — Quality 4.0. The model we recommend to digitalising quality management is integrate, automate, connect, comply (IACC).

The latest in metrology technology

We regularly introduce new and innovative metrology systems and software. Novacam bore inspection technology enables micro-precision 3D measurements of bore interiors down to 1mm in diameter. GelSight handheld sensor instantly digitalises detailed surface features at point of use with micron level precision, replacing need for replicas. The Sensorfar 5 neox 3-in-1 optical profiler microscope includes three optical measurement techniques to provide high precision 3D topography.

We can also integrate, automate and connect equipment using factory wide real-time data collection ProLink software, inspection planning and reporting automation software HighQA so manufacturers can use the equipment, and the data it generates, to drive real value.

Contact the team on +44 (0)1452 632 712, visit www.TheSempreGroup.com or email sales@thesempregroup.com.



Print & Packaging News

Foxpak launch ready-to-recycle options to their already popular sustainable packaging range

Following on from the success of their Generation Green compostable packaging, foxpak has launched a ready-to-recycle flexible packaging range designed to meet demanding recycling regulations across Ireland, the United Kingdom and Europe.



Based on the concept of single-polymer laminate construction using variations of PE, foxpak's recyclable packaging offers full solutions for high barrier applications.

The innovative range includes laminate film for high speed VFFS and HFFS flow applications as well as bespoke pre-made stand up pouches and bags.

Significant investment in R&D has resulted in packaging that exhibits barrier properties and sealing performance emulating commonly used laminates commonly found in the flexible packaging sector.

Keeping products fresh and protected, foxpak's recyclable range meets the markets need

for fully recyclable packaging. In line with their ethos of "Taking Care of the Total Packaging Lifecycle", foxpak's new recyclable range is available in digital, flexographic and gravure print, catering to all brand requirements from product launch, market testing and promotional packaging to large volume runs.

Foxpak's recyclable range can be found in many retail outlets across several product categories including health food, pet food and personal care.

For more information contact our sales team at sales@foxpak.com

The one stop shop for all of your labelling needs

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

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

Datamark's product range includes: Plain and Colourwashed Labels, Flexographic Printed Labels, A4 Sheeted Labels, Fanfolded Labels & Tags, Own



Brand Thermal Transfer Ribbons, Thermal Transfer Ribbons, Thermal Transfer Bureau Print Solutions, GoDex and other brand Thermal Transfer Printers, Thermal Transfer and Direct Thermal Print Solutions, and TT Printers Service and Maintenance.

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

sales@datamarkuk.com
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Our customer wanted to offer their customers a pack that was 100% recyclable and John Richardson, owner of The Epsom Salts Company, said, "National Flexible provided the ideal solution."

New orientated PE is the perfect material for those companies wanting a single polymer solution which can be recycled at supermarket recycling centres.

National Flexible can now supply OPE pouches and films both single web and laminates. This environmentally friendly solution is low cost, low weight, recyclable, versatile with a low carbon footprint.

If you have a product that you think would suit this material then call and ask our marketing team for a pouch sample or a free film trial on 01274 685566 or email marketing@nationalflexible.net

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New mobile table series for lab devices withstands large mechanical loads

Stable construction and a surface resistant to chemicals ensure safe work

The equipment in modern laboratories is often extremely heavy and to be used in multiple labs at a given institute. Therefore it is best to set it up on a mobile workbench. Sonation GmbH has developed a new series of tables specifically designed for lab equipment. The models' reinforced base provides secure positioning for the apparatuses without sacrificing flexibility in the daily lab work. The new lab bench has been certified according to the safety requirements of DIN EN 61010-1.

The HPLC series with its steel-reinforced base can support an evenly distributed load weighing up to 250 kg or lopsided loads of up to 150 kg. This stability is ensured by V-shaped reinforcements under the tabletop. The Trespa® TopLab®PLUS panels used for the tabletop are totally chemical-resistant and the surface remains protected even after sustaining scratches or other superficial damage.

Thanks to the ball-bearing mounted castors the table can be moved effortlessly even under the heaviest structures. The workbench is available in several dimensions and the height-adjustable models come in five different height ranges. Cables are well-protected and housed in a spacious duct on the back.

A feedthrough at the rear of the tabletop lets the connection cables be inserted into the duct and plugged into the integrated power strip. Last but not least, the table can be equipped with a suitable uninterruptible power supply (UPS), particularly helpful for keeping the devices running while the table is being moved.

More information: www.sonation.de



Exhaust Air Filtration In Systec Autoclaves

Systec
 the autoclave company

Steam sterilization in autoclaves is used - especially in biological and medical laboratories - to inactivate natural or genetically modified microorganisms. However, during the heat-up phase, in which air is removed from the pressure vessel, biological agents can potentially escape into the work area as aerosols.

This means that exhaust air filtration is extremely important, especially in light of the current coronavirus epidemic. And while FFP masks and various filters with a pore size of 0.2 µm are

theoretically incapable of catching pure SARS-CoV-2 particles due to the small size of the particles (between approx. 0.1 and 0.14 µm), tests show that the exhaust air filtration systems in Systec autoclaves reliably prevent hazardous aerosols from escaping during the autoclaving process.

Systec products filter exhaust air by means of an autoclavable sterile air filter inside a filterhousing and a PT-100 temperature sensor - the combination of these elements ensures reliable filtration of exhaust air. To ensure a validatable filtration, the heating temperature of the autoclave is monitored throughout the process via a PT-100 temperature sensor (class A). At the same time, this sensor ensures that the filter cartridge is heated to a temperature that enables the safe inactivation of filtered particles.

www.systec-lab.com



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Individually equipped with high performance communication interfaces (RS485, Ethernet and WLAN options), the reliable instruments significantly reduce operational costs and provide a solid return on investment within the space of two years. Suitably slotting into laboratory, air quality monitoring and industrial environments, the apparatus has been strategically constructed to suit the majority of these related applications.

One of Leman Instruments' newest innovations is its combined technology gas generator, the GC Station 60LC. The single unit incorporates an inboard

compressor and is a concept unlike any other currently offered in the marketplace.

Based on the field proven Solid Polymer Electrolyte (PEM) cell technology, pure Hydrogen is produced at low pressure from electricity and high quality distilled water (Zero Water). This process can be started on demand and does not require any caustic solution. The produced Hydrogen is available 24/7 with constant minimum purity superior to 99.9995% and maximum at 99.99995% at output flows of 50ml/min to 15 l/min (depending on the model). The H₂ output pressure is regulated electronically and can be set from 0.5 to 10 bar. (7 to 140 psig).

www.leman-instruments.com



Eurofins | IPROMA & Markes to jointly develop a methodology for the determination of microplastics

Eurofins | IPROMA (Castelló, Spain) has recently signed a collaboration agreement with Markes International, (Llantrisant, UK), a company specialising in the quantification of trace amounts of volatile and semi-volatile compounds (VOCs and SVOCs) by gas chromatography (GC). The agreement is aimed at facilitating the development and validation of a methodology for the quantification of micro- and nano-plastics up to 0.3 µm in size by Eurofins | IPROMA using a Markes International instrument.

The instrument, which is operational at the Eurofins | IPROMA central office, has already processed some samples obtaining satisfactory results in the quantification of these contaminants at low detection limits. As a result of the



collaboration, Eurofins | IPROMA, together with Markes International, would have presented at the "SETAC Europe 30th Annual Meeting" congress, in Dublin (Ireland) on 3-7 May, if COVID-19 hadn't happened, entitled "Qualitative Analysis Of Microplastics: A Problem To Be Solved". The development of this type of methodology is fundamental to quantify the presence of

micro- and nanoplastics in different natural environments, to determine the origin of these contaminants and take the necessary measures for their elimination. Recently, the World Health Organization (WHO) has encouraged research into microplastics and a drastic reduction in the pollution produced by plastics in the environment, aware of the serious effects that they can cause on human health.

Eurofins | IPROMA, which actively participates in the microplastics working group of the Spanish Association of Water Supply and Sanitation, is once again ahead of the regulatory requirements to provide innovative solutions to current problems.

www.markes.com

Durable & reliable labels from Fine Cut Group

Fine Cut Group are leading manufacturers of durable, innovative identification and marking products for the medical industry, including medical device labelling, clinical trial, sample identification and pharmaceutical labelling requirements. We have worked side by side with the NHS, Government bodies and private laboratories providing label solutions for over 30 years.

Our team have vast experience and expertise in producing durable labels and overlays for hospital, laboratory, and pharmaceutical equipment. Catering for both short and long runs, we can provide recommendations for a variety of medical label applications, ranging from patient monitoring equipment to analytical instruments manufactured to the latest UL969 guidelines.

Our medical labels are manufactured from high quality polyester, polycarbonate and

polypropylene materials featuring a range of permanent and high tack adhesive combinations for long lasting performance. Our range of materials offer durable and reliable methods for identifying samples within the laboratory, suitable for identification of patient sample tubes, gynaecology/non-gynaecology sample slides, general laboratory storage and plasticware. We specialise in wrap-around labels that seal and protect all printed information, providing extra security from excessive handling and hostile environments.

We offer a full in-house bureau service, (via our ISO 9001 work frames) facilitating all print requirements including QR codes, 2 data matrix codes and 1D barcode variable data with 100% scanning of all barcodes and 2D matrix codes. Our labels are suited for extreme environments including freezer storage -20c to -196c and have enhanced resistance to a range of solvents and

chemicals, ensuring that all print remains legible.

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The perfect addition to any service engineer's toolkit

If you're a service engineer, Fridgenius' Solenoid Valve Operating Magnet could be the tool you've been looking for to save time, make your job easier and keep your customers happy.

Established in 1995 Fridgenius is a family business run by Chris Slydel. Being family-run, the company is dedicated to providing only the best products and services to its ever-growing customer base, which has helped it to build an enviable reputation over the years.

The Fridgenius Solenoid Valve Operating Magnet was developed to solve the problem of how to operate solenoid valves when a system is not under power. The device is designed to convert electrically

operated solenoid valves into hand-operated valves in seconds.

Available in three sizes, 10mm, 15mm, and 18mm, it fits all makes of solenoid valves and enables service engineers to operate valves manually. This offers great assistance during installation, recovery of refrigerants, and commissioning and decommissioning of plant and machinery.

This innovative piece of equipment is the same size and shape as a large cotton reel and is placed onto a solenoid valve once the coil has been removed. It causes the armature to open and close, allowing a valve to be kept open and allowing a system to be accessed.

By using this innovative tool, engineers can avoid the need to wire up a system, as well as eliminate the worry around selecting the correct voltage. What's more, in emergencies such as the failure of the coil, the Fridgenius Solenoid Valve Operating Magnet can be used to keep a system operating while a replacement coil is found.

Chris explained one of many examples where Fridgenius' device has helped a customer deal with an emergency. "At a show a few years ago, a refrigeration engineer recounted that while watching a rugby match on TV, he received a call from a milk processing plant customer. His plant was warming up and he needed help.

"He found that the solenoid coil had burned out and by using the Fridgenius Solenoid Valve Operating Magnet, he was able to run it permanently, setting it to cut out under pressure. The use of this ultimately saved 14,000 litres of milk, which resulted in one very happy customer, and the engineer returned home in time for the end of the rugby match!"

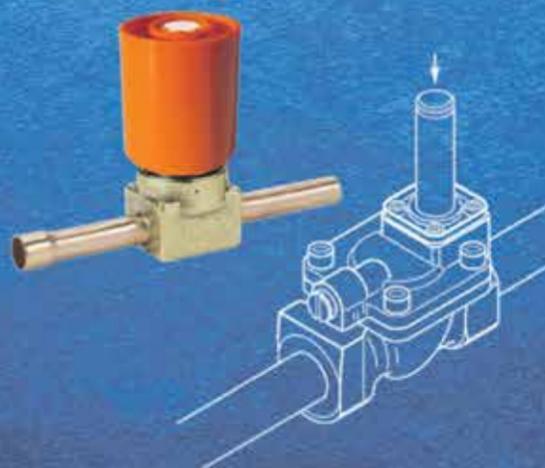
In addition to its standard range, Fridgenius now also offers a customised option, so companies can choose the colour and have their logo and text printed onto the device. This is perfect for those wanting to match the colour of their Solenoid Valve Operating Magnet with their corporate branding, and is great for retail sales or your own workforce.

So, next time you're on the job, don't be caught out. Make sure you have one of these ingenious devices in your toolkit – you'll wonder why you never had one before. To find out more information, head to the website or get in touch using the details below.

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Red Arrow's Rhombus revolution

Suitable for the majority of applications where recessed panel luminaires are installed, Red Arrow's Rhombus offers a cost-effective, innovative solution. Delivering high quality, flicker-free lighting, contractors and end users alike can experience even illumination and a solid, reliable performance well in excess of many inferior edge-lit panels.

No compromise on quality

While nearly all competitively priced panels on the market are edge lit, this available technology rarely offers the best efficacy. Why? Simply due to the method of transmitting light from the edge of the panel; across a light guide plate; then down to the working surface. Common problems include yellowing, uneven panel flashing, inefficient optics and lower reliability. However, Rhombus delivers a solution to

many of its competitors' downfalls. And with a very little increase in depth – only 32mm deep – and a better result, it is more reliable and contains less components that could degenerate over time.

Equipped with established optics technology and new, high efficiency 100lm/W LEDs, Rhombus delivers optimum light quality, with a flicker-free driver as standard. Plus, with an anti-yellowing diffuser, Red Arrow's innovative back-lit LED guarantees a longer life, improved appearance and evenly illuminated spaces.

Designed to fit exposed T-Grid ceilings, Rhombus has a lifetime of 25,000 hours and a dimmable driver is also available. With no compromise on quality, for applications where cost is a prime consideration.



For sales enquiries, please contact Red Arrow:
T 0114 279 8999
Graham.Lewis@redarrowtrading.com

Industrial Electronic Wiring

It's been an unprecedented year for all businesses with great uncertainty around COVID and preparing for operational changes Brexit will bring. We have had significant change at IEW with the business being purchased by long standing MD Duncan Game and Natalie Game in February 2020.

Initially, our priority was ensuring the well-being and a safe working environment for all employees and also assessing the impact the pandemic would have on the trading environment. The team response at IEW has been incredible, we have a special group of people here.

Further to this, we have been busy investing in our people with a focus on our core values to help create a positive culture supporting future developments at IEW.

We have also been making some exciting investments in a dedicated fibre optic line, an ATE tester, EV vehicle and some new manufacturing software package to help improve efficiency. We have also placed an order for IEW workwear for all employees. It is very much a foundation year to enable us to get the right tools in place to bring another level of Customer satisfaction and add value to the service that we offer.

We will end our financial year at a similar level as the previous year which, in the circumstances we feel extremely happy with and again it is testament to the way the team, our suppliers and our Customers have worked together to make it happen!

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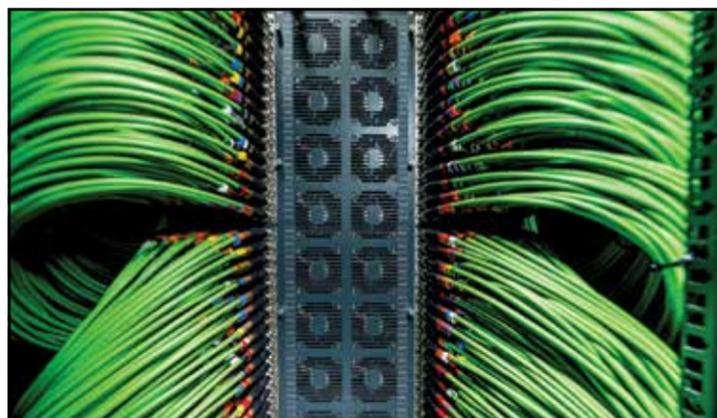
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New Siemens 3WA air circuit breakers now upgradable from the web

- Flexible addition of features via software protects investments
- New protection technologies prevent failures with distributed power supply
- Seamless integration in digital environments

With the new 3WA series, Siemens Smart Infrastructure is updating its Sentron portfolio of air circuit breakers. As a core element of low-voltage switchboards, they reliably protect electrical installations in buildings, infrastructures and industrial facilities from damage caused by short circuits, ground faults or overload faults. At the same time, the new 3WA circuit breakers meet all low-voltage power distribution requirements in digital environments. They support software-based planning and engineering, digital testing and monitoring, and seamless integration in automation and IoT systems. For the first time, upgrades can be completed 100 percent digitally. Users simply download new features from the Internet and add them using an app.



Siemens circuit breakers are designed for 30,000 operating cycles while requiring only one inspection per year. With a potential service life in excess of 100 years, their practical life averages approximately 10 years.

For more information on Siemens Smart Infrastructure, see www.siemens.com/smart-infrastructure

For more information on 3WA air circuit breakers, see www.siemens.com/3WA



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Module Size	120.7(W) x 54.7(H) x 2.9(T)mm
Display Size	4.6inch
Brightness	350 cd/m2
TFT Interface	RGB
Viewing Direction	12 o'clock

6.5" YB-TG800320S02A-N-AO	
Module Size	164.9(W) x 72.5(H) x 3.7(T)mm
Display Size	6.5inch
Brightness	330 cd/m2
TFT Interface	RGB
Viewing Direction	12 o'clock

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Kontron deploys 11th Gen Intel Core processors on COM Express® modules, 3U VPX blades & 3.5" SBC



11th Gen Intel Core processors feature high-performance CPU/GPU computing power with integrated AI acceleration, plus SKU-dependent real-time capabilities for high-speed processing, computer vision, and low-latency deterministic computing.

Kontron, a leading global provider of IoT/Embedded Computing Technology (ECT), combines well established form factors with new features of the 11th Gen Intel Core processors. The 10nm platform combines a high performance CPU with the new Intel Iris Xe graphics and, together with PCI Express® 4.0, offers a balance between performance and dynamics in the 12-28W range in a compact space.

The COM Express® Compact Type 6 module COMe-CTL6 offers variants up to quad core, Intel Core i7 processor, together with Dual Channel DDR4-3200 memory up to 48 GB and the second channel is also designed as soldered memory with up to 16 GB.

The on-board Intel I225 Ethernet controller offers up to 2.5GbE and supports, SKU-dependent, the TSN real-time standard (Time Sensitive Networking). Thus, the Kontron COMe-CTL6 module is suitable for time-critical applications that require very low transmission latencies, such as in the Industry 4.0 / IIoT environment of edge computing, machine and robotic control, as well as for digital signage and medical imaging. The COMe-CTL6 adopts the pin assignment and functions of existing solutions and can thus be implemented as a powerful successor without any major additional effort.

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The TR250 is particularly versatile. It can monitor several sensors simultaneously to a limit value or a sensor to up to 3 limit values and it can even measure the difference between two sensors.

The TR250 comes with pre-set programs for motor and transformer protection make commissioning particularly easy.

The switching behaviour of the 3 output relays, monitoring working or quiescent current, switching delays or storage of a switch-off is programmable on the device. This makes the TR250 suitable not only for the protection of electric motors or transformers against over temperature but also for control and monitoring tasks in a wide range of applications.

ZIEHL supplies further devices for 1 to 8 temperature sensors with up to 7 output relays as well as a range of electrical measuring and protection devices.

For further information please visit our website www.tvri.co.uk or contact us on sales@tvri.co.uk tel: +44(0) 1206 575755



Industry leading custom sensors to suit your requirements

Variohm EuroSensor was set up in 2002 as a combination of two well established companies, EuroSensor and Variohm Components, both of which had decades of experience in the sensor industry. This collaboration brought together the strengths and characteristics of both companies in order to offer a truly unrivalled range of products.

Part of the group Variohm Holdings, which is owned by a bigger group discoverIE, Variohm EuroSensor is joined by a close working group of companies, whose range of products and services complement each other and work in great autonomy. As well as Variohm EuroSensor, this group includes Ixthus Instrumentation, Heason Technology, Herga Technology, and Positek.



Sourcing products from either its extensive range of stock products, in house production facility, or the world's leading sensor manufacturers, Variohm EuroSensor strives towards its goal to ensure the correct sensor is supplied for each of its customers' applications.

What's more, the company has the capabilities to design, manufacture and modify sensors to be able to fit them to exact customer requirements, aiming to deliver a fully customised solution 8 weeks from receipt of order.

Variohm EuroSensor's expert engineering department devotes time to designing and building new products, based on customer feedback and the latest industry trends. The products that are being designed have customisable features, meaning they can work within applications with different fitment requirements.

One of Variohm EuroSensor's latest developments is its Custom Micro Rotary (CRMx) range, including the CMRK, CMRS and CMRT. The sensors in this range boast a long life, puck/magnet design, shafted design, flange mountings, thread mountings, IP68 protection, customisable housings, and redundant output signals.

In September 2019, Variohm EuroSensor's outstanding products and services were recognised at the Northamptonshire Chamber Business Awards, where the company not only won Export Business of the Year, but also the coveted Business of the Year award. These achievements are sure to continue in



the coming years, as Variohm EuroSensor builds on its decades of success and market leading offering.

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

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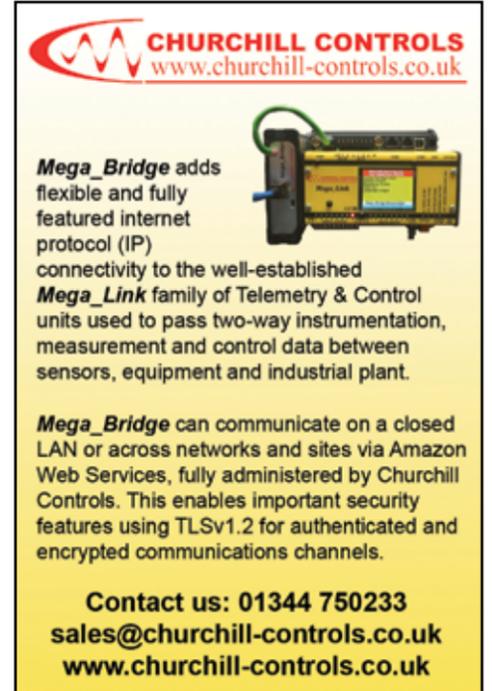


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Strengthen your controls and protect your company from fraud



FASTPATH

Industrial Process News is proud to announce that Fastpath has been selected as our Auditing, Security & Compliance Company of the Month, for its award-winning security access, segregation of duties monitoring and compliance platform.

Every company needs strong internal controls, no matter their size or industry. A 2020 report from the Association of Certified Fraud Examiners estimates that

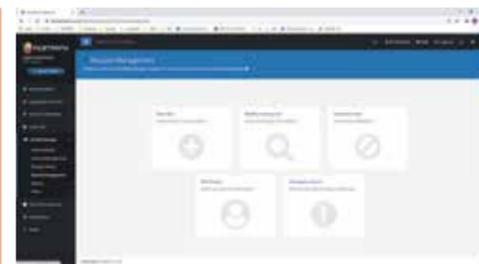
questions: who has access to your data? What are they doing with this access to the data, are they using it appropriately? And do you have risk or are you vulnerable in your systems?

“Whether you’re a manufacturer of automobiles or a pharmaceutical company, access to your systems and the data within these systems needs to be controlled. It’s not just how you manage your business data, it’s also about the personal data

exposure to internal fraud.”

But why should you invest in Fastpath’s software? “Firstly, depending on the ERP software you’re running, there may not even be other software available for you to use. Secondly, although some software solutions such as SAP and Oracle have their own version of what Fastpath does, it is incredibly expensive and takes months to implement by a large team of professionals, which is another added expense. Our solution is easy to use, easy to install, and can be up and running in a matter of hours without the need for a team of consultants.

“Also, because we are solely focused on software, we know exactly what’s going on in the market place. We are dedicated to delivering the best solutions to meet the requirements of customers. Our team has a deep understanding of the latest accounting and auditing regulations, and we take this knowledge of how security works inside these systems to provide a



minimising the risk of errors that comes with a difficult to follow paper trail. On top of this, we also provide free support and training to all of our customers. If they have a question, they can call up and talk to our support team and get advice for free.”

In addition, Fastpath is supporting its continued growth through adding new integrations for its solution. “10 years ago, we might have worked with about four systems, now we work with around 25 different systems and we are always looking to add more integrations, with Zuora, Coupa, ServiceNow, Workday and SailPoint being recent additions over the last 24 months.

“Our team is also growing even during the pandemic. Our customers and the market need our solutions even more, especially with the increase in remote working which can add more risks for a company’s security and privacy. So, we’re adding more resources and team members to make sure we can serve our customers efficiently.”

Certainly, Fastpath is always investigating how to expand its offering and is continuing to invest in looking at risk across different business systems. “It used to be that you had to look at risk separately for each system, so you couldn’t see it across all systems in one go. Fastpath allows you to look holistically across

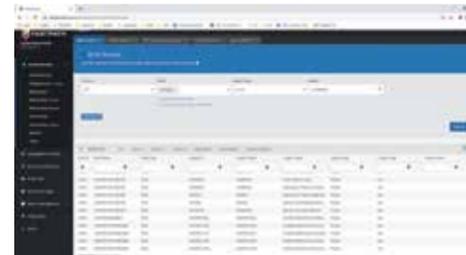
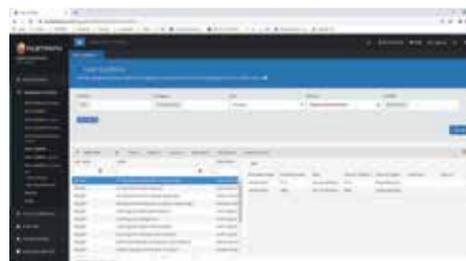


the average fraud case costs \$1.5 million, with 5% of revenues of all companies being lost to fraud. It is also estimated that 65% - 70% of this fraud is committed by internal employees.

While Fastpath cannot prevent all instances of fraud, it equips companies with a strong set of controls to help them manage

of your employees and your customers from a GDPR perspective. So, we assist companies with tools to help them better manage their systems, so they can answer these three basic questions and ensure compliance with security and privacy regulations.”

For example, a manufacturing company would want to avoid having someone who is receiving goods in a warehouse to also be able to place an order for these raw materials. “This is where our Segregation of Duties, or SoD tool, is essential. This ensures that people only have access to what they should have access to, and that this access is not conflicting. All companies need to have controls in place to prevent things like this happening and cut their



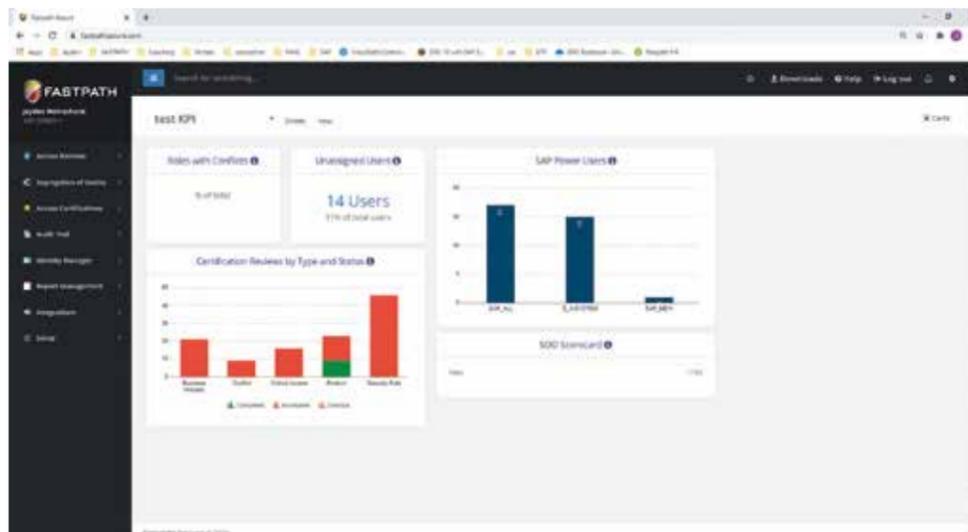
solution. It offers all the information you need control wise to answer an auditor’s questions, or just to answer the questions you have for your own controls.

“Crucially, these questions are answered in an automated way. Many companies still use manual tools for printing off reports and reviewing them. With Fastpath, there’s two clicks and you can review the report,



occupational fraud and prevent risk of exposure. “We provide tools that you can implement with the knowledge that they have an auditor’s seal of approval – our software is created for auditors, by auditors. These are controls you need regardless of size, industry or the system you’re running, as they can provide protection you might not already have, or that you currently have but is completed manually,” explained Frank Vukovits.

“We provide solutions to help companies better manage security access and risk in ERP systems, sales and marketing CRM systems, and HR systems. Our software allows companies to answer three basic



all systems to easily assess exposure to risk and conflicting duties. As well as continuing to develop additional functionality, we’re also building our products to be more preventative in nature. This will stop companies making mistakes in the first place through continuous monitoring, so the software is less detective and more preventative.”

If you want to find out more on how Fastpath can strengthen your security and privacy controls, head to the website or get in touch.

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