

# INDUSTRIAL PROCESS NEWS

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# IPN

## Extended Bunting-Redditch facility officially opened

After twelve months construction work, Bunting's European Managing Director, Simon Ayling officially opened the extended Bunting-Redditch facility. The revamped facility includes additional manufacturing and storage space, a new 'Customer Experience Centre,' and a third floor of offices.



L to R: Simon Ayling & Adrian Coleman outside the extended Bunting-Redditch facility

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

The facility investment programme increased both the manufacturing floor and office space by 50%. The additional manufacturing space is already being utilised by the production team manufacturing large orders such as a recent export project for one Eddy Current Separator and three large ElectroMax Overband Magnets.

The staged construction work started with the replacement of the entire roof of the manufacturing plant. The next stage involved extending the manufacturing and stores areas. The final work focused on a new third floor of offices and a new 'Customer Experience Centre' where customers undertake tests on a wide range of magnetic separators, metal detectors, and electrostatic separators.

The 'Customer Experience Centre' is home to a state-of-the-art laboratory and is one of the most advanced for magnetic and electrostatic separation in the world. Companies processing and mining minerals, and recycling waste materials, send samples to the laboratory for controlled tests. The tests demonstrate what separation is possible, ultimately leading to the purchase of production-sized magnetic and electrostatic separators.

The Customer Experience Centre features designated areas for both wet and dry testing on both high-intensity Magnetic Separators and ElectroStatic Separators. This latest investment in Bunting's European laboratory facilities follows the creation of a Recycling Test Centre in February 2018.

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[www.mastermagnets.com](http://www.mastermagnets.com)

## Secure return for cold chain event

THE TEMPERATURE CONTROLLED STORAGE & DISTRIBUTION (TCS&D) exhibition, conference and awards will return to the East of England Arena in Peterborough on the 7th & 8th September. Secure-return-cold-chain-event



Image supplied by ISD Solutions, exhibitor at TCS&D 2021

Despite the end of restricted attendance numbers for indoor events being scheduled for late June, TCS&D 2021 will still be capping visitor numbers at 1,000 in September.

The bi-annual TCS&D show will incorporate the Cold Chain Hub conference – the programme for which is being devised by the Cold Chain Federation – making the event a fantastic opportunity to learn about the latest technologies and trends in the industry.

Exhibition director Martyn Cogan says, "After a challenging 12 months for our sector and as we return to a more normal life, we want TCS&D to deliver a host of tangible benefits to give our visitors a great couple of days."

Covid-secure measures will include thermal camera checks on arrival, numerous sanitiser stations and wider aisles.

The Ride & Drive Experience track in the outside display area will make a return, with more electric vehicles than ever before anticipated.

NRG Fleet Services will exclusively showcase the Electra 19t Refrigerated Electric Vehicle at TCS&D 2021. "This is a real coup for the show," says Martyn, "and is certain to attract a great deal of interest."

**Companies interested in exhibiting their solutions to a targeted audience of up to 1,000 visitors should contact Martyn Cogan on +44 (0)7545 378793.**

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## Retail security dilemmas solved with ShopShield

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



Commercial security specialists, Clearway, have stepped into the breach with exactly what's needed to stop both criminals and mindless vandals: ShopShield One, a fixed-price, retail security solution that is simple, affordable and ticks all the necessary boxes to keep the premises safe and secure until new tenants can move in.

Like an easy to understand and buy, one-stop-shop solution, ShopShield One will cover replacement locks, a temporary letterbox seal, Key safe and flammable waste removal. A comprehensive risk assessment is also carried out to highlight any other issues, for which a set of bolt-on services is available to provide additional security measures tailored to the individual needs of your premises.

[www.clearway.co.uk/shopshield](http://www.clearway.co.uk/shopshield)  
T 01322 479652  
enquiries@clearway.co.uk

## Rotork provides electric actuators at Johan Sverdrup



Rotork has been selected as the sole provider of intelligent electric actuators for one of the largest offshore development projects in the Norwegian continental shelf, Johan Sverdrup. Energy company Equinor ordered in excess of 700 of Rotork's IQ multi and part-turn actuators for the Johan Sverdrup oil field in the North Sea, which is located approximately 150km away from the coast of Stavanger.

Known as the North Sea Giant, the Johan Sverdrup oil field is set to be one of the most important industrial projects in Norway during the next 50 years, with expected resources of between 2.1 to 3.1 billion barrels of oil equivalents. At peak production, Johan Sverdrup will produce 25% of all Norwegian petroleum. Johan Sverdrup expect to increase daily production capacity to 535,000 barrels by mid-2021.

In the biggest Norwegian project of the last decade, the actuators provide an extensive range of flow control services across the drilling, riser, process and living quarters. They control everything from the supply of water to engineers in their living quarters on the platform, to the precise control of flow needed for the extraction of oil. This was phase one of the project. Rotork are now currently supplying to phase two; this includes actuators for the new process platform and riser platform modifications. They are now undergoing commissioning by Rotork service engineers in Thailand and Norway.

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<https://www.rotork.com/en>  
<https://tinyurl.com/7227n5ej>

## Rotech go above and beyond with Bespoke Coding Solutions

Rotech is delighted to announce that, after 2 years, we will be once again throwing ourselves into an exhibition, where we can showcase a selection of our innovative coding solutions, live and in person.

**A flexible, adaptable approach to product marking**  
At PPMA this year, we will be highlighting some of the recent, more unusual applications that we have found a solution for, be that an innovative way of deploying one of our printing systems online or handling a tricky product using one of our feeding systems. These allow us to demonstrate our ability to adapt and be flexible in our approach, something that we are able to accommodate

due to our vast industry experience and ability to design and manufacture products in-house, from our Hertfordshire-based factory.



### Live print demonstrations

Across the three days we will be inviting visitors to come and see for themselves how far coding technology has

come over the years, hopefully busting some myths and misconceptions along the way.

### See you on Stand A37

Visitors to the Rotech stand can try any one of our solutions, including our popular RF Lite sleeve and carton coder, our Two-Colour large-area direct box printer and our thermal inkjet (TIJ) printers – clean, cost-effective printers ideal for printing variable information onto all types of products and their packaging.

For any further information on Rotech, or any one of our solutions, visit our website: [www.rotechmachines.com](http://www.rotechmachines.com)

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

**GES Group's 5 Pillars of Expertise**  
GES Group established in 1972 as Grants Electrical Services (NI) Ltd., the Company has grown and developed into GES Group, a leading Electrical and Mechanical Engineering business, now serving customers throughout Ireland, the UK and Europe. Currently employing over 80 staff, including many professionally trained and accredited Engineers, we respond quickly to Industry's ever-changing demands and needs, while offering geographic coverage to many of our customers. Traditionally AC/DC motor rewind and re-manufacture specialists, we have developed our portfolio as a market leader to now provide an extensive range of technically advanced products and services.

**Nidec (Leroy Somer) Electric Motors stocked in Mallusk and Newbridge (IRL)**  
As of the 4th January 2021, GES Group became the authorised Distributor for Nidec (Leroy-Somer) Motors Ireland.

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

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# Hospital Air Disinfection System, Airborne Infection Control & PanelPilotACE

Compromised air quality in hospitals can increase the severity of infections in patients and negatively impact staff. There is no overstating the importance of air quality in hospitals and medical centres as these facilities need to be sterile and clean to allow patients to recover and employees to work safely.

According to research, over 35% of infections can be transmitted through the air. These types of infections can leave particles suspended in the air for extended periods of time. Scientific Air Management, a Florida-based company, created the S400 to reduce these transmissions in critical areas. The S400 is a mobile air disinfection unit designed to remove airborne contaminants, pathogens, and odours of all types.

The S400 unit utilises Lascar Electronics' SGD 43-A programmable TFT panel meter. Scientific Air Management chose the SGD 43-A display primarily for its programmable interface and ease of use. The free configuration software supplied with the panel meter enabled Scientific Air Management to design and create a multi-page user interface. The design utilised two PWM outputs to control fan speed and illumination of the UV



bulbs. The SGD 43-A also displays the HEPA filter runtime to ease maintenance and ensure efficient operation.

Lascar recently designed and manufactured a PCB that eases the assembly process and greatly speeds up the production time of the completed assembly. Lascar Electronics was proud to help Scientific Air Management meet the high demand and supply hospitals with the S400 during the COVID19 crisis.

T +44(0)1794 884567  
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<https://www.lascarelectronics.com>

# Kontron SMARC-fA3399 with Arm® Rockchip processor for AI-based PoS-applications available now

New SMARC module excels in terms of price-performance ratio and creates the perfect foundation for computing-intensive AI-applications at the point-of-sale.

Kontron, a leading global provider of IoT/Embedded Computing Technology (ECT), launches the new SMARC module fA3399 with Arm® processor Rockchip RK3399K. In the benchmark of Arm®-based modules, the new Kontron module has the highest performance compared to its price. Six processor cores from an energy-saving dual-core Arm® Cortex® A72 and a Quad Cortex®-A53 as well as an Arm® Mali-T860MP4 GPU, provide high graphics performance for 2D and 3D displays. A dedicated Open Source Community is continuously expanding the application spectrum and driving innovation.

The new Rockchip CPU offers a platform for non-critical applications around the areas of POS/POI. Whether digital signage, retail or kiosk – wherever Artificial Intelligence is used to enable target group-specific communication with the end customer, the SMARC-fA3399 module creates the



perfect basis for new applications. Price pressure and speed are important drivers here, because when it comes to placing new content close to the customer, the time-to-market factor is crucial.

Samples of the new module are available as of now.

For more information, please visit:  
<https://www.kontron.com/en/produkte/smarc-fa3399/p160779>

# 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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## TR-7 Series simplifies access to data

The TR-7wb WLAN data logger with Bluetooth feature is ideal for temperature and humidity monitoring, and designed for those who require a broad range of measurement tasks. Recorded data can be automatically uploaded to T&D's free of charge WebStorage Service, which is accessible anywhere and anytime by computer or mobile devices.

The App 'T&D Thermo' enables the use of mobile devices for viewing data recorded by TR-7wb/nw (wireless and wired LAN) series data loggers, as well as direct communication and operation with the TR-71wb, TR-72wb and TR-75wb via Bluetooth. These applications allow uncomplicated and cost-effective protection of various goods and processes in public buildings, warehousing of sensitive products, and the supervision of laboratories and refrigerators.



**For further information, please visit:**  
[www.tandd.com](http://www.tandd.com)  
[www.webstorage-service.com](http://www.webstorage-service.com)

# Reliable. Available. Now.



Industrial Process News is proud to announce that Traco Power has been selected as our Custom Power Solutions Company of the Year.

The Traco Power Group was founded in 1944 by Mr. Hans Caspar and is still owned today by the fourth generation founding family. Starting out, the first company was known as Traco Trading Company Limited.

Headquartered in Switzerland and with subsidiaries in the USA, Germany, France and Ireland; Traco Power has had strong distribution partners all over the world for over 10 years and holds a firm base of 130 employees. These include 25 engineers at its top-of-the-line test laboratories at the two development sites in Ireland.

In the 1940's, Traco Trading Co. Ltd. was engaged in the import and distribution of cameras, radios and electronic components. Predominantly importation came from Japan, America and Italy and were brought over as own representatives into the electrical specialised trade.

Fast forward to the 70's where the birth of complex power supplies and DC-DC converters was born. The Traco Trading Co. Ltd. exclusively began to distribute the Revox/Dynavox recording devices, and this gave the company great success resulting in the Traco Electronic Company Ltd division being founded for its own developments. Regarded as a milestone in the company's history, Traco Power began to focus on power supplies and DC/DC converters and soon established itself as a market leader in this segment.

To this day, Traco Powers' high-quality DC/DC converters and AC/DC power supplies are certified and aimed towards target markets such as automation, robotics, medical devices, railway and transportation, general industry and IoT. Traco Power mainly sell to its franchised distributors: ARROW Electronics, RS, Digikey, Mouser, Farnell, Sager, TRC, Allied, Distrelec and many others. More than 80% of electric design engineers who work on PCB designs use Traco Power converters, establishing its position as the leading company for DC/DC converters.

Renowned for its reliability, availability and solution-oriented flexibility, Traco Power's claim is more than a commitment. Delivered as a trio of promises to its customers, products and partnerships, these affirmations are embedded in the company's DNA. Besides producing commercial off the shelf standard products, Traco Power has begun to focus also on customised solutions and modified standardisation.

Traco Power offers one of the most comprehensive portfolios of off-the-shelf products and guarantees above-average availability and delivery within days. Its products are certified and approved and with consistent testing, stand for the highest possible efficiency.

The medical and healthcare market for power supplies is an ever-evolving market. Traco Power can offer advanced solutions for a variety of medical applications. Compared to power supplies, the medical market has much stricter needs



to fulfil. Some main technical difficulties have additional requirements and can be specifically found within the isolation system, leakage current, isolation capacitance and EMC limits. Traco Power can offer advanced solutions for a variety of medical applications with these traits.

Its products for the medical technology sector has proven successful around the world and received an extensive amount of feedback. This reflects Traco Power's outstanding reputation, thanks to its compact construction and high reliability in meeting all medical standards.



With this knowledge, an exciting chapter dawns for Traco Power as it is set to release its best-in class 850-Watt Medical Grade power supply. For applications where ruggedised components are required, such as railways or transportation, Traco Power has expanded its product portfolio of ruggedised DC/DC converter with an ultra wide input range (up to 12:1). Altogether with the addition of this new product, the range of 3 – 300 Watt DC/DC converters for those applications will be complete.

In accordance with Traco Power's plans, its previous CEO Markus Dalla Monta, will retire as of June 2021. After 35 years working for the company, its time for new pastures green for Markus, so since April 2021, Stefan Schaffhauser will assume the CEO position. From there on, Stefan will lead Traco Power together with CFO, Adrian Berger.

Carrying a fermented, well rounded and solid reputation in the UK, Traco Power's team of creative designers and constructive engineers are ready to dive into a bigger and more challenging market. By having a solid, worldwide distribution network which in essence is the backbone of the organisation has enabled Traco Power to maintain its close partnerships with its distributors. This is a distribution strategy it will continue to work from.

To better support its distribution partners locally, Traco Power has opened subsidiaries in both the USA and France. This strategy has proved its worth meaning it can open doors for Traco Power to extend further afield to other countries. With branches now in Switzerland, Germany, USA and France, Traco Power can support its distribution partners and customers on a higher and more local level while simultaneously utilising local experts.



Traco Power is known to attend yearly trade shows, however, with the recent uncertainties of COVID-19 it is likely the following trade shows in which they usually attend will be postponed until 2022. Traco Power usually exhibit at the following trade shows: Electronica, Embedded, Medica/Compamed, Innotrans and many more local events and exhibitions.

Looking forward, Traco Power will continue to focus on the development and distribution of industrial and medical DC/DC converters, AC/DC power supplies and customised power supplies. The company is looking to grow its current distribution network of over 50 countries while exploring and entering new markets.

Delivering the utmost reliable power solutions since 1944, Traco Power's passion and work ethic is depicted by three simple words, 'Reliable. Available. Now.' Traco Power breath this motto into its employees, creating a dedicated, ambitious, and hungry-for-more attitude within the company. Having worldwide recognition creates noise around Traco Power, which enables the company to provide optimal power supply solutions to its customers ensuring service is consistently delivering high performance, high quality and always at a cost-effective price.

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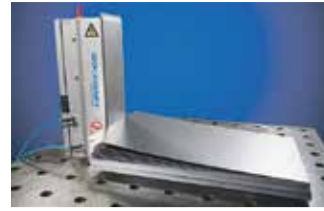
## Goudsmit Magnetics launches new 'fail-safe' steel sheet separator

A new fail-safe sheet separator recently developed by Netherlands-based Goudsmit Magnetics provides automatic separation of steel sheets up to a thickness of approximately 4mm. The separator is equipped with powerful neodymium magnets and can be switched on and off pneumatically using a new patented system. To see how it works, click here: <https://youtu.be/V-dEDZPCXXA>

This switching is done quickly by rotation of the magnets. The maintenance-free sheet separator is reportedly the only one of its kind with a spring-actuated off position. The extremely safe sheet separator automatically switches to the off position even if the compressed air supply is interrupted. Even at full load at maximum stacking height. The magnet cannot accidentally remain switched on during maintenance either. This is something you

ordinarily cannot see, and often leads to industrial accidents. With the red indicator you can see from a distance whether the magnet is switched on.

For more information, visit: [www.goudsmitmagnetics.com](http://www.goudsmitmagnetics.com)



## Much Needed Flexibility for Aftermarket Work

Abrasive waterjet cutting shines on production of complex parts where traditional cutting processes and tools would erode profitability.

For small job shops and major manufacturers alike, turning around custom or nonstandard components on a contract basis requires a significant level of process agility and flexibility to get parts programmed, cut and out of the door. These shops also see quality as a crucial element of success. To produce these high-quality parts in the most efficient, cost-effective manner, abrasive waterjet cutting machines represent ideal solutions.

Abrasive waterjets can cut everything from metals, stone, plastics, wood and beyond – without requiring cost-prohibitive post processing and at speeds that outpace most other CNC tools when factoring in up- and down-stream time savings. For example, a part cut on a waterjet machine doesn't need to cool off, the cut product has no heat-affected zones and doesn't require further finishing – a major time saver.

Omax Corp has developed the Omax; Maxiem; Globalmax and Protomax brands for over 25 years, pushing the extremes of micro and macro machining.

### Ideal Option for Small Job Shops

Recent waterjet-technology advancements enable use of these machines even in the smallest job shops. The ProtoMAX proves an ideal option for relatively low-volume cutting of almost any material less than 1" thick. Work material can be submerged for clean, quiet cutting that will not disrupt a shared workspace. Also making it effective as a Classroom or Prototype Tool.

### Larger Machines for Larger Runs

Using the same technology, the OMAX 120X series, is offered with a customisable cutting bed that can reach up to 12.7m by 3.4m which is being used in large fabrication, as well as architectural metal and glass.

### Provides Opportunities to Grow

With waterjet cutting technology Ashfield Products Limited, cuts brass, bronze, perspex, stainless steel and tool steel up to 25mm thick, producing custom safety parts for high performance motorcycles and marine engines. The company handles materials efficiently as its clients push automotive science to its limits on an OMAX 2626.

### OMAX: A Waterjet for Every User

Waterjet machines have numerous advantages, with software-based controls, programming is relatively simple to learn and operators can quickly master advanced programming and processing techniques. The machines do not produce fumes, smoke or dust, and as they only use water and garnet to produce its cutting power, the process can result in far less environmental impact than other cutting processes.

### Aquajet Machining Systems Ltd:

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## Surface Finishing & Grinding News

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# Rewinds & J.Windsor & Sons Ltd: Electrical Services

**RJW Electrical Services has been leading the field in the repair of AC and DC electric motors for 75 years and counting. Its modern, well-equipped workshops and time-served engineers provide full support and 24/7/365 availability across a range of electrical repairs, maintenance and site-based services to keep your business running.**

With automated winding machines, specialist baking, VIP tanks and the largest burn-off ovens in the North West; the company can minimise repair times – reducing downtime and costs while effecting quality repairs/refurbishments in accordance with AEMT and EASA best practices.

Providing In-house and on-site repairs to alternators serving a range of industries – including hydro, gas and diesel generation is a core competency, RJW has many years' of experience and sophisticated testing routines to ensure your assets deliver when returned to service.

RJW has recently designed, built, and installed an industry-leading motor testing bay into its Liverpool workshop. Together with modern core loss, dynamic load and surge testing, the company can certify its repairs and accurately measure performance criteria. RJW's workshops and engineers are certified to carry out repairs and servicing to Ex rated motors.

Our fleet of fully equipped site vehicles and around-the-clock availability of skilled engineers allow us to provide unrivalled levels of service whenever and wherever you need us. A wide range of site services beyond repairs are available including inspections, predictive and preventative maintenance, installation, and commissioning.

As distributors and partners for an extensive range of OEMs RJW can assist with specifying and competitively sourcing new equipment either for replacement or as part of a new project. With extensive stocks of AC motors ready to be delivered, 24/7/365 whenever the need arises.

RJW works in accordance with the EASA/AEMT Good Practice Guide to Maintain Energy Efficiency. The company follow the guide in particular with respect to the use of a burn out oven and the temperatures recommended, the use of coil extraction equipment and the use of automated winding machines. All areas are key in ensuring that the repair process is controlled, and efficiency is not lost, so improving motor life and reducing motor running costs.

#### Department Service Summary

- Rewind and overhaul of AC and DC motors up to 5MW, 10T.
- AC commutator variable speed motor repairs
- Dynamic testing up to 6.6kV, 3-phase
- Load testing facilities (constant running up to 3 hours) up to 250kW.
- Core loss testing facilities up to 3750kW
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- Polarisation index testing
- Centrifugal and submersible pump flow testing and pressure testing.
- Low voltage formed coil manufacture
- On site monitoring/testing of AC and DC motors
- Efficiency testing of motors
- Approved stockists and repairers for Brook Crompton, Leroy Somer, Teco and Tec

- Hold stocks of new motors up to 250kW
- Full internal sales facility for technical assistance and the sale of rotating equipment including motors, pump, gearboxes etc.
- Full motor management facilities including internet-based motor management system.

Fully approved by the AEMT for the repair of flameproof and Ex rated motors. Trained by the AEMT in the repair of energy efficient motors.

More than just motors, RJW service, repair, and supply all types of industrial rotating equipment including:



Gearboxes, Pumps, Fans and Generators (including wind).

For more information, please see below: enquiries@rjweng.com

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Manchester M28 0GP  
T 0161 702 8737

Wallasey CH44 7HX  
T 0151 652 1315



OUR PROACTIVE APPROACH TO

# DYNAMIC BALANCING

Rewinds & J. Windsor & Sons (Engineers) Ltd.

# RJW

ENGINEERING

### DYNAMIC BALANCING

Dynamic balancing is a methodology of balancing components by rotating them at a range of speeds and measuring the imbalance using electronic equipment. The imbalance measured can then be corrected by adding or subtracting weight from the rotating parts until the vibration is minimised.

All machines have some form of residual vibration. Vibration in rotating machinery can cause high levels of noise and more importantly, significantly reduce the life of components. The ideal thing to do would be to remove all causes of vibration and allow the machine to run smoothly. The process of balancing is the removal or addition of weight to the device, so that the effective mass centre approaches the true axis.

### HIGHLY EXPERIENCED

Our highly experienced team of Balancing Technicians stand ready 24/7/365 to collect your rotating equipment and balance dynamically down to ISO G1. Alternatively, our engineers can carry out in-situ balancing and laser alignment on your premises.

### BALANCING A WIDE RANGE

We have experience in balancing a wide range of components including fans, impellers, rotors, rollers, armatures, shafts, crushers, flywheels..... if it moves chances are, we have balanced it.

### BEST EQUIPPED AND LARGEST

The Balancing Workshop, located in Wallasey, is the largest and best equipped facility in the North West and comprises a wide range of industry leading Schenk balancing machines to accommodate most components from small machine parts weighing in at 50g up to parts weighing 10,000kg, 5,500mm max. journal centres and 2,500mm diameter.

### FULLY CERTIFIED

Balancing operations are fully certified, and reports include initial and residual out-of-balance readings.

### SUPPLIERS OF

We can supply new and refurbished dynamic balancing machines together with training packages run in our workshops.

### ESTABLISHED 75 YEARS AGO

RJW are the largest privately-owned engineering business specialising in the repair and maintenance of rotating equipment consisting of 7 workshops (mechanical, electrical & electronic) in 3 locations across the North West, established 75 years ago and employing over 90 skilled engineers across the 3 disciplines.

### ADDITIONAL SERVICES

Also available is a range of additional services to ensure the continued health and efficiency of your equipment. Please contact us for details.



CONTACT US  
**0151 652 1315**

ONLINE  
**rjweng.com**

**WALLASEY**  
Unit 7 & 8, Westfield Rd,  
Poulton Ind Estate,  
Wallasey CH44 7HX  
**0151 652 1315**

**LIVERPOOL**  
81 Regent Road,  
Liverpool L5 9SY  
**0151 207 2074**

**MANCHESTER**  
Hulton Works, Smithfold Lane,  
Worsley, Manchester M28 0GP  
**0161 702 8737**

# Fast valve response keeps Fowey dry

**Product: Recoil check valve**

**Immediate dispatch wins T-T Pumps the contract to supply South West Water for their Fowey sewer upgrade project.**

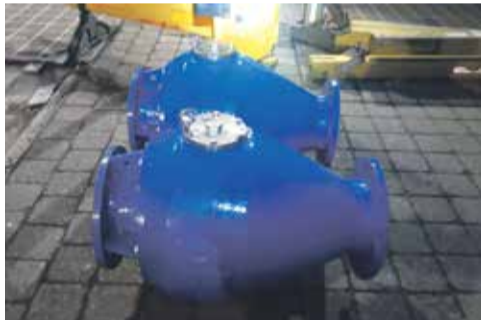
The South West Water sewer upgrade project at Fowey needed a supplier of specific and unique recoil non-slam check valves. T-T Pumps was the only supplier who could meet their requirements.

Fowey is a picture-postcard harbour town in South Cornwall. Over the past few years, the residents had been experiencing several internal and external sewer flooding events centred around the Whitford Yard and Lostwithiel Street areas.

To protect residents from future flooding and enhance public health, South West Water designed a new sewer installation project that would transform the 70 metre-long existing sewer between Whitford Yard and the Town Quay pumping station into a modern service residents could rely upon not to flood.

Completed in February and March of 2021, the project South West Water undertook was not without its challenges: The narrow streets of Fowey and the need to close main thoroughfares had to be managed to minimise disruption, which included when components would be delivered to site.

South West Water's planning for the Fowey sewer upgrade was detailed and included state-of-the-art



valves that would be integral to deliver a reliable defence against any future flooding. Once the project's specifications were complete, it was apparent which company had the valve technology needed and could supply this time-sensitive project with ease.

Gareth Reece, Internal Sales Engineer, T-T Flow, explained how being able to supply the required valves from stock was critical for the Fowey sewer project, "T-T Pumps were clearly the ideal supplier as these valves are ready to go from stock," Gareth explained. "The time constraints and circumstances involved in this project due to low tide, access to the public areas, harbour master accommodating the installation and a trailer full of safety equipment already set up, meant that we had to react quickly and efficiently to hit these tight deadlines. Due to our flexible approach and constant customer communication, we were able to arrange dedicated transport to ensure they arrived on-time."

**Efficient valve supply**

The DN150 recoil non-slam check valve is unique to

T-T Pumps. In addition, the T-T Flow recoil check valve features weld deposit bronze seats, unlike competitor valves that tend to offer push-fit seats, which risk detachment under higher velocities.

In addition, the T-T Flow recoil check valves unique design ensures rapid closure where extreme flow exists. Its robust design incorporates an angled seat, and its high eccentricity design reduces the risk of water hammer and valve slam.

Also, mechanical assistance is gained by reducing inertia coupled with the optimal suspension of the moving components. Ideal check valve for reducing water hammer in supply systems, often caused by sudden changes in pump state, benefitting from reduced door travel to minimise the potentially damaging effects of water hammer.

As a result, the DN150 was a perfect choice for the demanding environment of the new Fowey sewer.

Managing Director, Bob Nash commented on how T-T

Pumps have continued to innovate with unique valve technology, "T-T Flow have invested heavily in our UK in-house research and development team. Utilising the latest design software, we are constantly able to re-evaluate our products which gives us the flexibility to meet our customer's ever-changing needs."

South West Water knew they had to partner with multiple contractors to deliver the Fowey sewer upgrade on time and with the minimum level of disruption to residents, and ensure all works were completed before Fowey welcomed its annual visitors.

T-T Pumps' long-term development of recoil valve technology and its position as a direct supplier meant South West Water had to look no further for the essential valve supplier they needed.

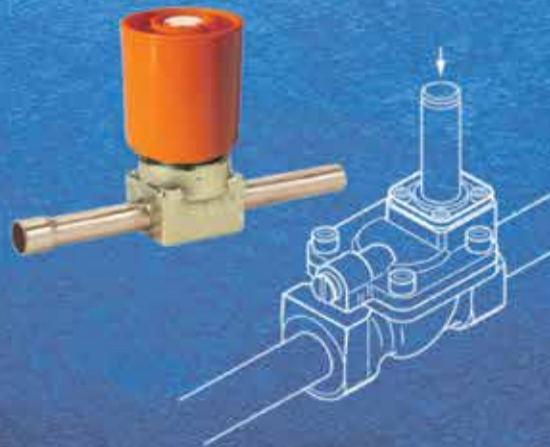
Ultimately, the Fowey project was successful via detailed advanced planning, which included using a supplier that consistently meets the high demands of companies across the water industry.

**If your business is struggling to find the right supplier, call our experts today:**

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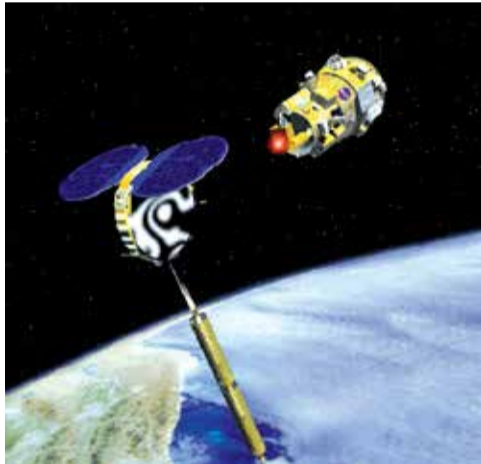
# We speak laser diodes!

In this issue of Industrial Process News, we are pleased to announce Frankfurt Laser Company as our Semiconductor Laser Manufacturing Company of the Month.

Frankfurt Laser Company develop, produce and distribute laser products such as laser diodes, laser modules and laser systems and is a world leading supplier of FP, DFB and DBR laser diodes. The company offers sources from UV over the visible range, DPSS lasers or MID-IR LEDs, including single mode, multimode, free space beam and fibre coupled.

Based in Friedrichsdorf, Germany, Frankfurt Laser Company was established in 1994 by Dr. Vsevolod Mazo, who has been one of the top advisors for semiconductor lasers for 25 years. Frankfurt Laser Company also has a production facility for laser modules located in Minsk, Belarus, and is incorporated under the company name of Laser Technic and Technology Ltd.

As specialists in the photonics industry, Frankfurt Laser Company also serve the medical, defence and research sectors. Its philosophy is to give the best advice to its customers in finding the optimal product for their purposes, offering a fast service that is measured both technically and economically.



"We are dedicated to the technical requirements as well as the price target and delivery date when the latter are critical for the project. We are suited to offer those solutions when our competitors fail to do so, capitalising on our wide network of relationships with nearly every market leading laser diodes, superluminescent diodes and DPSS lasers manufacturer," stated Dr Vsevolod Mazo.

One product that has recently launched is the Compact Laser Diode Line Modules HSML-E with ultra-thin lines. The new HSML-E is a series of laser diode line modules, which are very compact and deliver an ultra-thin line. The laser head and laser drivers are separated which allows a very compact laser head of 12.6mm x 44mm. The laser driver is 200mm away from the laser head with dimensions of 12.6mm x 40mm and can be operated at 24V. As an example, the beam line can be focused to a thickness of just 10µm from a 40mm distance.

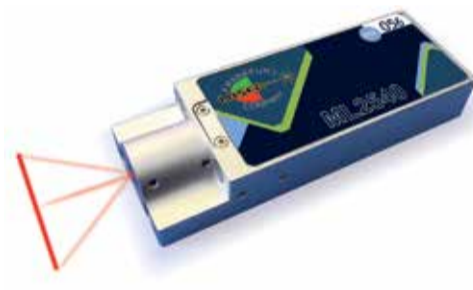
Standard fan angles are 10°- 90°, with a wavelength range from 405nm to 1,060nm and power output of up to 50mW. The power stability is typically  $\pm 5\%$  over eight hours at an operating temperature range



from 10°C – 50°C. Furthermore, there is the option with the potentiometer for power adjustment, external TTL modulation up to 1MHz and analogue modulation up to 100kHz. The housing is electrically isolated and satisfies the protection class IP67, which makes these modules ideal for industrial application use within harsh environmental conditions. The major applications are machine vision, scanning, profiling and laser triangulation.

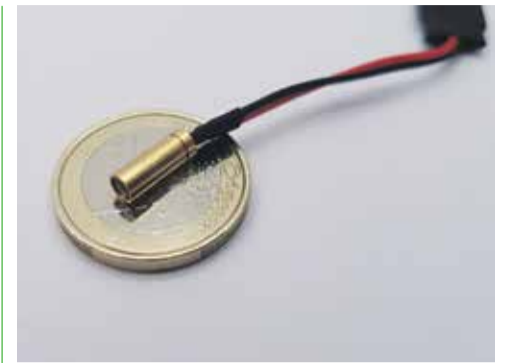
Another revolutionary product range Frankfurt Laser Company offers is the Micro Green Laser Modules. Both the GLM-532-003-MICRO-X and GLM-545-003-MICRO-X are an extremely small size of just 3.7mm x 10mm with a power output of 3mW at a wavelength of 532nm and 545nm. The operating temperature ranges between -30°C – +60°C, allowing it to be used for various industrial and defence applications in the harshest of environments. The energy consumption is very low which saves supply power. It is supplied with an ACC (Auto Constant Current) and runs at a fixed frequency of 111Hz. The beam coming from the laser has a range of 2.5mm with a divergence of <2.5mrad in both directions. Each green laser module can be used in the following applications: target destination, laser gun sights, construction lasers, instrument alignment and geodesy instruments.

Frankfurt Laser Company caters to a plethora of customers with a product range, which is constantly



growing. From image processing to multiple applications in industry and research, medicine and military sectors, the laser components of Frankfurt Laser Company can be found everywhere. Providing an abundance of knowledge and experience, Frankfurt Laser Company can advise its customers in finding the optimal product either on a global scale or as an individually tailor-made product. Each laser module is manufactured to the highest quality and is highly cost-effective. As well as distributing laser sources, Frankfurt Laser Company also team up with appropriate manufacturers to develop customised products set to revolutionise the future of the laser industry.

A noteworthy industry sector, which Frankfurt Laser Company is able to offer its support to, is the European and US space programs. "We sold custom DFB laser diodes to Airbus Defence and Space in Germany to detect methane in the earth's atmosphere. It is now used in their lab for the MERLIN Project, which is the first Franco-German observation satellite. MERLIN will measure methane concentrations in the atmosphere to help understand



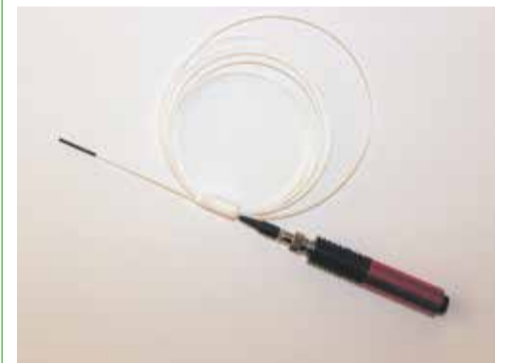
global warming. Another project was a custom laser diode module that was developed, produced and sold to Orbital Science in the USA. They used it for an automatic docking system for an unmanned spaceship flight mission," explained Dr Vsevolod Mazo.

If that wasn't enough, Frankfurt Laser Company also support future projects in the field of international research. One example was the 'GLAURIOUS Project,' launched by the European Commission. The aim of the project was to develop cost-effective systems for glaucoma treatment. Research has shown within Asia and Africa, glaucoma is a widespread eye disease and can be diagnosed and treated effectively and economically with the system provided by Frankfurt Laser Company.

The effect of COVID-19 has seen a recent change within the company's working environment, since 2020, all sales staff have been working remotely from home. "In 2020, we had a general drop in business by about 20%, but this year it seems we can reach the figures we had before the COVID-19 pandemic," stated Dr Vsevolod Mazo.

As Frankfurt Laser Company looks ahead, the plan is to keep increasing turnover to enable them to employ more staff and ultimately grow as a business. Its vision, knowledge and ability to think outside the box stands the company in good stead for the future.

For more information, see below:  
T +49 (0)6172 279780  
sales@frlaserco.com  
www.frlaserco.com





# Responsive people in motion control

In this issue of Industrial Process News, we are delighted to announce that we have chosen to present our Industry Excellence Award to British Encoder Products Co. for its intelligence and manufacturing capabilities within the automation industry.

Encoders play a huge role in digital electronics and can be complicated devices. Knowing what product to use can be frustrating. British Encoder Products Co. is the European branch of the Encoder Products Group and is a leading designer and worldwide manufacturer of motion sensing and control devices.

Its core philosophy states each and every customer deserves quality products, superior customer service and expert support. Via online services, customers can talk to real engineers and encoder experts, at the push of a button.

Founded in 1969, from the humble abode of Bill Watt's suburban US home garage, the company has grown significantly. Over the years, the company has expanded its operations and opened its UK branch located in North Wales, Wrexham, with another division in Asia and partnerships in India.

The company produces encoders which are widely used in many industry applications such as Aerospace, Material Handling, Mobile Equipment, Packaging, Textiles, Timber Products, Converting, Metal Forming and Fabrication, Food and Beverage, and Printing. Its extensive and multifaceted services combine advanced optics and sensor



technology with intelligently engineered housing for performance that customers can rely on.

"The purpose of the company is to meet or exceed our customer's expectations, listen to and respect their needs, and negotiate the best technical option, and pricing, for the customer's application." Explained Kasia Serafin, Marketing Manager.

As inventors of the original Cube encoder, British Encoder Products Co. is responsible for the first time uses of Opto-ASIC technology and flex mounting for hollow shaft encoders. Through these innovations, the company has set industry standards.

Another notable innovation is the emergence of the model A58SB Absolute Encoder. Designed for harsh factory and plant floor environments, its heavy-duty, rugged and reliable. Featuring in both single and multi-turn resolution, its specifically suited to applications where an encoder needs to retain position information after power-off.



In light of the recent COVID-19 pandemic, like many others, business models and ways of working have had to adapt to new changes. British Encoder Products Co. has managed to adjust its approach, to keep staff safe and its services flowing. "We have made every effort to minimise the risk to our employees while providing essential support to companies who need our encoders to manufacture necessary supplies during this time." explained Kasia.

Further development in the company resulted in the addition of new products to the offer, giving customers the possibility of wider use of these devices in various applications. "The Model A58SB absolute bus encoder is designed for harsh factory and plant floor environments. As an absolute encoder, it is especially suited to applications where an encoder needs to retain position information



after power-off scenarios. Also, the LCX model is quick and easy to install and is available with cable lengths from one meter to 42.5 meters. It is compatible with the Absolute



Encoders, which offers EtherCAT® and PROFINET® communication protocols and a stainless steel incremental encoder." said Kasia.



Broadening its range of online shopping services, a Virtual Stand combining 3D visualisations with animated wall graphics to deliver a stylish look and feel is available on the website. "The use of a screen plinth and literature wall enables visitors to browse the online catalogue and view the latest product brochures." said Kasia.

Moving forward, British Encoder Products Co. will continue to improve and develop, combining performance, delivery and competitive pricing to its overall customer experience. Thrilled to have received the award, Kasia added. "We feel honoured to receive the Industry Excellence Award."

See below for more information:  
T 01978 262100  
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## Engineering & Machining News

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## Holding firm on ferrous materials

With the increasing need for manufacturing processes and cutting speeds to become faster and more accurate, effective workholding has developed into one of the most critical aspects of manufacturing operations.

Major advances in technology and an ever-expanding range of workholding tools means choice is far from limited. However, there is one method that undoubtedly offers a plethora of benefits for metalwork – the magnetic chuck.

Ideal for multi-part, multi-directional machining, the easy-access mechanism of a magnetic chuck offers an ideal solution to machining, cutting, and drilling problems encountered by traditional workholding methods, providing a fail-safe hold with no movement or vibration.

Since inventing the world's first permanent magnetic chuck in 1934, Eclipse Magnets has been at the forefront of workholding innovation, its range of premier chucks have proven to increase feed rates by up to 500%. The instant magnetic clamp significantly cuts set-up times, and the single-face hold allows continued five face machining, minimising the need to stop and reposition.

T +44 (0)114 225 0600  
info@eclipsemagnetics.com  
www.eclipsemagnetics.com/products/workholding-systems

## CMC in great shape as it launches new 'FIT' product

**A**IRMASTER™, the CMC-owned embedded air compressor controls brand for original equipment manufacturers (OEMs), has revealed its next generation of controllers after launching AIRMASTER™ FIT.



The new product, which is already boosting the health of companies across Europe including Turkish firm Aykom Compressors, has been designed to control small and medium-sized industrial equipment such as rotary screw, rotary vane and piston air compressors.

FIT includes a 2.4-inch colour graphic display protected by a durable ABS plastic enclosure and IP65-rated fascia protection. It is also MODBUS, command and control and IoT-ready, which means it can easily be integrated with any factory control system.

Supplied with built-in 3-phase motor protection, current monitoring of both prime and fan motors, as well as ample analogue inputs, relay outputs and digital inputs, AIRMASTER™ FIT is expected to be well received by OEMs looking for an advanced yet affordable controller capable of asset group control.

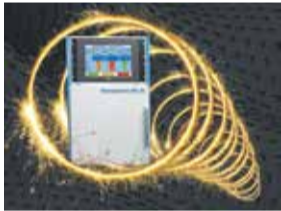
Other products in the AIRMASTER™ range include FORM and FLEX, which are scheduled to be released later this year.

For more information on AIRMASTER™, visit: [www.controlcompressors.com](http://www.controlcompressors.com)

For more information on CMC, visit: [www.cmcnv.com](http://www.cmcnv.com)

## The O-Ring Trap

**T**here is a trap that people fall into – they instinctively feel that just because a seal or O ring keeps liquids out, then it is doing its job properly. But vapours can actually pass through any material, sometimes and in great quantities – it was this that caused the space shuttle Challenger to explode. But Versaperm can help.



Versaperm equipment allows you to measure and test the vapour permeability of materials, O-rings, seals and even complete finished products, so you understand if the seals and manufacturing processes work in your case.

Vapours can permeate through every single material. This causes electronics to fail, machines to jam, printing to lose quality, metals to rust and a host of other problems.

Considering that water vapour is the world's single most widespread contaminate, the problem can be acute. Versaperm's meter can simultaneously measure the vapour permeability of several samples, seals, O-rings, gaskets, or products at a time, often giving a result in as little as 30 minutes. Pressure, temperature and humidity change the permeability and are optionally controllable by the system over an exceptionally wide range.

The meter is easy to use, it needs no re-calibration and requires, at most, minimal training to give results that are typically accurate in the Parts Per Million (PPM) to PPB ranges.

Versaperm's permeability measurement instruments allow you to solve problems for virtually any seal, vapour, gas or application – including water vapour, hydrocarbons, solvents, greases, oxygen, CO<sub>2</sub> and nitrogen.

The equipment allows you to understand which materials, seals, mastics or O rings are right for your individual product, application or equipment. As well as manufacturing the instruments, Versaperm offers both a laboratory testing service and a consultancy for companies that only need to test samples on an irregular basis.

T +44 (0)1628 777668  
info@versaperm.com  
www.versaperm.com

# Asset Availability functionality aids understanding of downtime

**O**rganisations that use EAM software often are very aware of the number of failures, but less so when it comes to unplanned downtime. After safety, downtime is a key issue for many organisations. That's why the Ultimo EAM software has been expanded with a special functionality – Asset Availability. This gives greater insight into unplanned downtime, which allows companies to analyse and anticipate downtime.

### Integration with Power BI Dashboards

If you want a powerful and visual presentation of downtime, you can choose to use the integration with a set of Power BI Dashboards. Clear and organised.

### Integration in the field of Safety

Organisations that use EAM software often are very aware of the number of failures, but less so when it comes to unplanned downtime. As a solution, Ultimo EAM software has been expanded with a special functionality – Asset Availability. This gives greater insight into unplanned downtime, allowing companies to analyse and anticipate it.

Those wanting a powerful and visual presentation of downtime, can choose to integrate a set of Power BI Dashboards to provide a clear and organised approach.

Ultimo software integrates Maintenance & Safety. One of



the safety modules is 'Shift Handover'. The Asset Availability functionality is fully integrated with this module.

[www.ultimo.com](http://www.ultimo.com)

**SEE VITAL SIGNS.  
TAKE VITAL ACTION.**

Ultimo is the #1 EAM Cloud platform that provides its customers with control over their assets and an unmatched and proven Return On Investment. Its benefits include increased uptime; management of costs and an extension in the lifespan of equipment; reliable control information; ease of adherence to laws and regulations and the assurance of a safe working environment. With Ultimo you see vital signs and you take vital actions.

Visit [ultimo.com](http://ultimo.com) and get a free demo of our EAM software.

Live-link your assets and facilities.

**ULTIMO**

# Reach your goal faster with the UNIFLEX SL 3-16 M

A new hose crimper for low-pressure hoses that does not require changing the crimping dies is now available. The SL 3-16 M from UNIFLEX has two integrated sets of crimping dies. There is no need to change the crimping dies when you change from, e.g., DN 3 to DN 16 and vice versa. It's only a matter of reinserting the handle. This saves you a considerable amount of time, your hands stay clean, and, above all, you don't lose any crimping dies. With the integrated handle, you can easily take the crimper anywhere. As always, you get The Best Return on Investment, and a 2-year manufacturer's warranty.



It's the same old story. The presetting or retooling of machines is often the most complex operational step. For instance, when you have to crimp two commonly used hose sizes, changing the crimping dies in a conventional crimper can be tedious and time-consuming. This is not the case with the innovative UNIFLEX SL 3-16 M. Since it already comes with two integrated sets of crimping dies, all you need to do is switch the handle to the arbour of the second toothed wheel when you need to change the crimping diameter.

The UNIFLEX SL 3-16 M can process low-pressure hoses with diameters of up to 5/8" with a crimping force of 30kN or 3 tons, respectively. The crimping dies are 10mm long and the opening path is 31.7mm. The front set of crimping dies is suitable for hoses with DN 3-8, and the rear set of crimping dies for DN 10-16.

The compact crimper stands on a base measuring 340mm (width) x 143mm (depth) and is 780mm high without the lever. Thanks to the integrated carrying handle, the device, weighing only 20kg, can easily be moved and fixed with stop crews on any working space.

T +49 (0)6039 91710  
info@uniflex.de  
www.uniflex.de



# Free access to component CAD drawings speeds up design

Fast and simple access to component part CAD drawings is vital for engineers to design machinery. Accurate 3D visualisations also help buyers make quick decisions. WDS Components Ltd freely presents its library of 25,000-plus product drawings in a variety of CAD and non-specialist file formats to help component users speed up their design process.



Computer-Aided Design, better known as CAD, is used today throughout all industries to increase the speed and reduce the cost of design. While an engineer uses CAD on a daily basis to develop new designs or make modifications to existing designs, it's vital that they have access to CAD files of the component parts used on their design.

3D CAD drawings improve the quality of design with the ability to create an accurate model to guide development. They increase the speed of development, removing the need to wait for actual product samples before integrating them into designs and increasing time to market. They also reduce the cost of development, removing the need to procure a variety of components before identifying the right specification. CAD models are of course also required when specifying components and standard parts in industries including aerospace, automotive and rail.

A choke point for the design engineer is often the access to the files they need. Most significantly, this includes the availability of drawings, which may not cover the entire product range, or may not include the full selection of items, such as different sizes within a component product family. For this reason, WDS presents virtually its entire range of components in CAD format, including products such as toggle clamps, gas struts and cam levers, amounting to over 25,000 drawings.

To improve the ease and speed of access to CAD files, WDS includes the entire library free of charge on wdscomponents.com. With no cost and open access, as many files as required can be downloaded. To save time for the customer, only a single log-in is needed to access and download the library as opposed to making a specific request each time a CAD file is required.

WDS' technical support team are here to help you, from design application developments to aftersales care and advice. Head over to wdscomponents.com to download 3D models of every product. Available in 9 version including AutoCAD, Solidworks, CATIA V4/V5, Inventor, Solid Edge, Solid Designer, Unigraphics, ME10.

T 0345 606 6677  
www.wdscomponents.com

# Lorien appoints duo of Directors

Lorien Engineering Solutions has appointed two new directors to its UK board following the retirement of Director Bill Treddenick and a series of project wins to support its continued expansion.



Matthew Hilderley becomes Sales and Marketing Director. Having joined Lorien in 2016 as Business Development Manager, Matthew's latest step-up sees him lead the development and delivery of the overall sales and marketing strategy.

Matthew has a Master of Business Administration (MBA) and more than 20 years' business development experience working with a diverse range of FMCG clients for the company's multi-disciplined engineering and project management team.

Steve Brown has been promoted to Account Director following various roles over 24 years at Lorien. He successfully led key account growth in Europe and latterly into the AMESA region (Africa, Middle East and South Asia).

Lorien specialises in capital projects for food, brewing, drinks, life sciences, advanced manufacturing and logistics. The company is headquartered in Burton-upon-Trent, with international offices in Poland and South Africa.

For further information, visit:  
www.lorienengineering.com  
or www.gpstrategies.com



# Powder/Liquid Mixers

## From Laboratory to Production Scale

Introducing the **Silverson FMX5** Laboratory Scale Powder/Liquid mixer.

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# A 'model' for maintaining quality in manufacturing industries

**G&P is a provider of quality management services to the manufacturing industry, helping companies achieve the highest possible quality standards, while improving efficiency and reputation, together with reducing cost and waste.**



In order to improve its overall effectiveness and help manufacturers and suppliers further, G&P has developed an industry leading model and system that allows it to drive and support the quality management process, identifying problems in real-time allowing manufacturers and suppliers to respond much quicker.



Indeed, G&P's award-winning Quality Excellence Model has helped manufacturing customers, including automotive and aerospace OEMs and Tier 1 suppliers, to improve efficiency and quality levels.

Recent analysis of the system's use shows that in 2020 more than 27 million automotive and aerospace parts were reworked to OEM standard, while nearly seven million substandard components were removed from the manufacturing process.

Geoff Cousins, chairman at G&P, said, "2020 presented new challenges with a massive disruption to working practices, such as social distancing, travel restrictions, interruptions to supply chains, remote working and different shift patterns, to name a few.

"Under these circumstances it was even more important to maintain robust quality protocols, and G&P, supporting its manufacturing customers around the world, was able to improve the level of service and results, reworking an increased number of parts to OEM standard."



At the heart of G&P's Quality Excellence Model is its proprietary QTrak system. This is a sophisticated project management software tool which allows real-time analysis and identification of quality issues.

As QTrak provides instantaneous results, it allows problematic supply sources to be investigated without delay, parts contained and corrective action to be deployed to prevent further defective components from being produced.

Specifically, the Quality Excellence Model enables high-value manufacturing organisations to manage complex supply chains and control costs, while giving these companies on-demand access to the resources and expertise they need for both reactive and proactive management of supplier quality, together with their own in-house quality, quickly and cost-effectively.



It also facilitates sustainable long-term quality improvement, by enabling manufacturers and their suppliers the ability to rapidly identify the root-cause of quality problems and take decisive action to permanently eliminate them.

Strategically the Quality Excellence Model has enabled a fundamental shift in G&P's relationship with its customers.



G&P is increasingly seen as a strategic partner, often with sole responsibility for the management of inbound component quality and the response to quality issues. This is achieved through the deployment of quality inspectors, engineers, technicians and other highly-skilled personnel.

Geoff added, "G&P's core focus is to help manufacturers and suppliers increase quality standards and improve efficiency, whether it's achieved through the utilisation of G&P's innovative technology, a flexible & rapidly deployed workforce or tried-and-tested inspection methods."

**Find out how your organisation can benefit from G&P's quality management services, whether it's in the automotive, aerospace, off-highway, defence, rail, marine or other manufacturing sector, by visiting: [www.gpqm.com](http://www.gpqm.com)**

## Industrial Process Technologies News

### Flow Measurement Devices Integral to Smart Water Metering Systems

Titan Enterprises reports on a growing demand for precision flow measurement devices from manufacturers of domestic and industrial water-consumption appliances to integrate as part of a smart water meter system.



With year-on-year increases in water usage for domestic and industrial purposes, smart water flow metering solutions – with integrated Titan liquid flow sensors help to manage end user demand and monitor water consumption, enhancing water conservation. Manufacturers of appliances, such as washing machines, dishwashers and showers, are looking for effective solutions to ensure that water intake is measured and accurately controlled. Integration of precision flow meters into smart water metering systems to monitor water usage helps to mitigate the growing threats to global water security.

Titan's wide range of water flow metering solutions have proven reliability and longevity, as well as delivering on repeatability and accuracy – highly important features for smart water meter systems.

**For further information on flow measurement devices for smart water meter systems, please contact Titan Enterprises on +44 (0)1935 812790 or [sales@flowmeters.co.uk](mailto:sales@flowmeters.co.uk).**

Visit our website at [www.flowmeters.co.uk/atrato-ultrasonic-flowmeters](http://www.flowmeters.co.uk/atrato-ultrasonic-flowmeters) or [www.flowmeters.co.uk/turbine-flowmeters-overview](http://www.flowmeters.co.uk/turbine-flowmeters-overview)

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# Continued investment plans for Kingston Engineering

**K**ingston Engineering is one of the UK's leading precision engineering companies, with expertise in the manufacture and production of bespoke power screws. Using materials and specifications to suit customer's exact specifications and needs, Kingston Engineering produces cutting-edge power screw components with complementary nuts and fittings.

Based in Hull in East Yorkshire, Kingston Engineering specialise in manufacturing Right Hand/Left Hand, Single/Multi-start, Cut Thread Power Transmission Screws and Nuts, adaptable for mechanical power transmission. Kingston Engineering's products are provided to a diverse range of industry sectors in the UK and across the globe, conforming to British, European and American standards.

Kingston Engineering works closely with both suppliers and end-users, with a focus on providing technical expertise



and an efficient turnaround service. Their products are used extensively in a range of applications across multiple industries including the aerospace, oil and gas, nuclear energy, the chemical and medical sectors and many more.

All customised and purpose-built screws are manufactured and produced to the exacting quality standards of ISO 9001-2015 accreditation. Kingston Engineering also provide component reclamation, component enhancement, component repair and a corrosion prevention service.

#### An enviable reputation

The specialist precision engineering services provided by Kingston Engineering have evolved from a wealth of engineering experience and a heritage spanning over 100 years.

Founded in 1919, the aftermath of the First World War marks the time frame for the origins of the business. Starting out as Hull Motor Transport and Engineering Co, the company manufactured pistons and provided cylinder grinding and general engineering services. With further expansion in the early years, the company evolved to offer sawmilling and printing machine repair. In 1924, the Kingston Engineering Co. Ltd name was adopted, with the manufacturing of screws beginning as early as 1930. Kingston Engineering started to manufacture components for aircraft undercarriages during World War Two.

In the decades to follow, a focus on skill and provision of engineering expertise has enabled Kingston Engineering to obtain an enviable reputation, as a leading precision engineering company.



The ability of the company to adapt and evolve has always been a defining characteristic of the Kingston Engineering business.

#### Building a resilient future

With a heritage built on engineering skill, innovation and expertise, Kingston Engineering has shown remarkable resilience and responsiveness to change across the decades. These are the core strengths that still form the cornerstone of the Kingston Engineering business today.



Kingston Engineering continues to build on a strong foundation of engineering excellence and is committed to further investment to build a resilient future. As the company embraces the years ahead, the focus is to continually invest in state-of-the-art equipment, in-house facilities and advanced technologies. This will enable Kingston Engineering to continue to deliver leading precision engineering solutions to customers in both the UK and across the globe.

As a leading precision engineering company, Kingston Engineering is dedicated to producing cutting-edge power screws and components, cut to quality materials and manufactured to exacting quality standards.

Kingston Engineering provide great flexibility and a rapid response service and are committed to providing unique and quality solutions to customer's specific engineering requirements.

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



## Practical Aspects of PROFINET, PROFIBUS & IO-Link

**Birmingham 17th November 2021; Strathclyde 24th March 2022 & Belfast 18th May 2022**

These events will be of great value to Designers, Production/System Engineers, Instrument Technicians/Engineers and C&I Engineers involved in the design, operation and maintenance of modern automated factories and process plant. This is what we've currently got planned, subject to change:

Topics will include:

- Highlights of new supported technologies, the protocol basics and their benefits to UK industry.



- PROFINET network design covering fundamental principles that must be considered at the design stage of an automation system.
- Network gateway technology with

demonstrations of PROFINET to Profibus DP, PA, IO-Link and OPC UA


- Industrial network commissioning and testing: how to simplify the process, prevent failures and resolve cable and network issues faster.
- PROFIBUS and PROFINET device configuration tools and FDI with a live demonstration of PROFIBUS and PROFINET configuration.
- Industrial networks safety & security covering the basics of legislation and responsibilities for cybersecurity, safety and functional safety for Industrial Automation.
- Update on Industry 4.0, IIoT, TSN, APL and Big Data, showing how PROFINET is placed as the ideal network for all of these.

#### More information and online Registration

Please note that these dates are totally provisional, registering for these events does not commit you but ensures that you will be on our list to be kept up to date with developments and able to change arrangements if needed. There is no charge for registering nor for attending.

**Birmingham:** <https://tinyurl.com/htpz4a9y>  
**Scotland:** <https://tinyurl.com/82akpwbp>  
**Belfast:** <https://tinyurl.com/bdmyzbps>

**Contact**  
**T +49 721 9658 590**  
**<https://www.profibus.com>**



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Kingston Engineering Co. (Hull) Ltd, Pennington Street, Hull, East Yorkshire, HU8 7LD, UK

## Mimaki 3D printing brings colour to the 'beauty' of anatomy

What do anatomy and 3D printing have in common? As the science that studies the shape and structure of the human body, over the centuries anatomy has been the basis of medical and scientific knowledge and remains the common thread running through the training and professional development of every doctor. The focus of this discipline is to investigate and consequently produce figurative representations of the morphology of the human body, with a degree of realism and accuracy that has played – and continues to play – a crucial role in ensuring effective teaching and the dissemination of anatomical knowledge. And this is precisely where 3D printing comes in as a state-of-the-art technology that could mark a turning point in the anatomical representation of the human body.



A major step forward in this direction was made in a recent Italian project involving the University of Florence and Bompan, Mimaki's exclusive Italian importer, which leverages the passion, skills and determination of a team of visionary doctors and researchers, and the full colour and photorealistic capability of Mimaki's 3D printing technology.

**T +31 (0)20 462 76 40**  
**info@mimakieurope.com**  
**<https://www.mimakieurope.com>**

# Visitor registration opens for the UK Chemical Industries EXPO, CHEMUK 2021!

Ian Stone, MD of CHEMUK, excited to bring the industry back together at the NEC in Birmingham this September.



**Ian Stone, Managing Director, CHEMUK**



16th September at the NEC in Birmingham, has officially opened. Following the successful launch of CHEMUK in 2019, the show returns having doubled in size.

The exhibition floor will showcase over 320 specialist exhibitors, welcoming 150 brand new companies including the likes of: Brenntag UK, Univar Solutions, Pepperl + Fuchs, Network Scientific, and ABB, to name a few.

The speaker programme has expanded to comprise over 140 expert speakers that will present concurrently over 4 stages.

"We have a fantastic show on offer with over 320 chemical industry supply chain exhibitors, and 140 plus expert speakers addressing the most crucial topics affecting the sector today. CHEMUK provides an unmissable opportunity for industry to get back together, face to face, meet new suppliers and access the latest intelligence required to move their business forward."

Visitor registration for the CHEMUK 2021 EXPO, running this 15th &



Just some of the confirmed speakers already include: Stephen Elliott, CEO, Chemical Industries Association (CIA); Tim Doggett, CEO, Chemical Business Association (CBA); Dr Zsuzsanna Gyenes, Deputy to the ISC Director, IChemE Safety Centre; Thomas Birk, Managing Director & Vice President UK & Ireland, BASF plc; Jane Lawson, Head of Global Product Safety and Regulatory Affairs, Croda, and many others. You can see the full programme on the CHEMUK website.

**You can register for your free 2-day visitor badge to the exhibition floor and all presentations by visiting the CHEMUK 2021 website at: [www.chemicalukexpo.com](http://www.chemicalukexpo.com)**

# McGrath Group: Conductorliner

Many organisations adopt an 'out of sight out of mind' approach to underground pipe repair, not realising that the repair systems being widely used do not comply with BSI Health and Safety standards.

Traditional repair systems introduce insulator materials (fibre glass patches, polyester liners and epoxy coatings) to the naturally dissipative earthenware pipes, these materials remove the environmental risks of a damaged pipe however the introduction of these materials also breaks the static flow within the repaired pipe causing a build up of static and therefore introducing a high risk of spark and explosion.

Conductorliner is the world's first 100% dissipative and anti-static repair system. Our EN/BS0079-32 compliant product is a revolutionary no dig repair system which minimises disruption and downtime, ensuring repairs are completed quickly, efficiently and most importantly negates both environmental and explosion risks.

How do you repair a pipe, crack or displaced joint using a material or method that will dissipate static charge so that there is no threat of explosion?

The BSI, issues standard BS60079-32 for electro-static hazards in potentially explosive atmospheres. All infrastructure repair systems in potentially explosive



THE WORLD'S FIRST ANTI-STATIC REPAIR SYSTEM

atmospheres should conform with this standard. They do not and never have. Up to now industry has been affecting repairs to negate environmental risk, unwittingly introducing an explosion risk. This is set to change for the first time in modern industrial history thanks to Conductorliner, which is EN/BS60079-32 compliant, and is also proven to be the first 100% dissipative infrastructure repair system in the world.

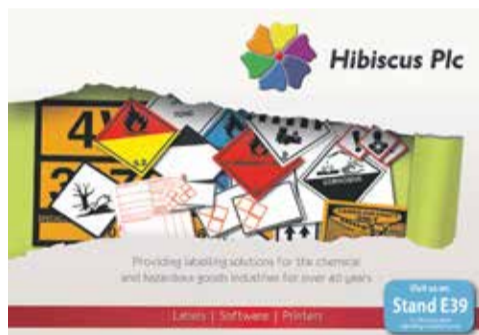
Further information is available at: [www.mcgrathltd.co.uk/conductorliner](http://www.mcgrathltd.co.uk/conductorliner) or speak to Tom or Lydia McGrath on **Stand Number F46**.

**Contact Tom McGrath**  
T 07762 536636  
[tom@mcgrathltd.co.uk](mailto:tom@mcgrathltd.co.uk)  
**Lydia McGrath**  
T 07507 778778  
[lydia@mcgrathltd.co.uk](mailto:lydia@mcgrathltd.co.uk)  
[www.mcgrathltd.co.uk/conductorliner](http://www.mcgrathltd.co.uk/conductorliner)

# Experts in Chemical Labelling

Hibiscus Plc is one of the UK's leading chemical label manufacturers. They have specialised in providing high-quality labelling solutions for the chemical and hazardous goods industries for over 40 years.

Hibiscus manufacture a wide range of bespoke warning labels and develop software specifically for the classification and labelling of chemicals and the production and management of Safety Data Sheets.



Visit us on **Stand Number E39** to discuss your labelling requirements.

T 0113 203 1951  
[enquiries@hibiscus-plc.com](mailto:enquiries@hibiscus-plc.com)  
[www.hibiscus-plc.co.uk](http://www.hibiscus-plc.co.uk)

# Pulseless flow

Suurmond is delighted to be attending the CHEMUK show at the NEC in Birmingham on September 15th & 16th. The theme of our booth this year will be 'pulseless flow' - this term describes the unique characteristic of metering gear-pumps. With metering gear-pumps you can optimise your process to give greater efficiencies and better end-product quality.

We look forward to being able to show the visitors to the exhibition the benefits of using metering gear-pumps in their processes to achieve very high levels of process efficiency with the benefit of pulseless flow, even where the process is difficult because of high temperature, low (or high) viscosity or high differential pressures.

We are also keen to discuss how we can integrate the metering gear-pumps we offer into custom made systems that perfectly match the customers' requirements.

Suurmond Group, which has been a gear-



pump specialist since 1974, has 4 businesses, headquartered in the Netherlands and with sales offices in the United Kingdom, Belgium and France.

Come and visit us at **Stand Number J15** and let's talk about how we can help.

[www.suurmond.com](http://www.suurmond.com)

# Avenium Engineering

Avenium Engineering is a supplier of process equipment to processing industries such as Oil & Gas, Petrochemical, Chemical Processing, Utilities and Energy.

What makes Avenium different is that not only do we supply to industry, we are also from industry. Our team of highly skilled engineers have extensive experience of working in industry as an end user, therefore this helps us to understand the requirements of the application, and the needs of our clients.

Avenium are an agent & distributor for some of the biggest names in the process equipment supply sector, this demonstrates Avenium's ability to successfully supply equipment into the process industry.

Our capabilities and products include:

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## ISS Projects (UK) Ltd

With over 20 years' experience, ISS Projects (UK) Ltd (Stand E33) provides specialist Liquid Level Management solutions to industry throughout the UK and Europe. We design, install and upgrade all types of tank gauging systems and provide planned preventative maintenance and annual calibration/validation services.



levels, alerts and trending using GSM technology to provide seamless integration with existing site infrastructure.

ISS can provide a complete gauging solution utilising any type of sensor and displaying medium, allowing real time information to be shared via LAN or WAN with alerts via text or email.

ISS aims to provide a fast, efficient, reliable and safe service to all our customers.

**Come see us on Stand Number E33.**  
**T 01765 606655**  
**enquiries@issprojects.co.uk**  
**www.issprojects.co.uk**

Our safety professionals can design and verify Safety Integrity Level (SIL) systems and have experience of working in conjunction with the Health and Safety Executive on top tier COMAH sites.

Our Independent High Level Alarm/Overfill Protection Panel can form part of a Safety Integrated Function (SIF). All of our panels are designed, built and tested in house with the exception of the remote telemetry units.

For remote telemetry, we use off the shelf units and we build bespoke solutions giving real time

## 2011 - 2021

Advanced Colours and Chemicals Ltd celebrates its 10th year in business.

Situated close to the motorway network in Lancashire, Advanced Colours and Chemicals was created from a management buyout in 2011 from Advanced Auxiliaries Ltd and has gone from strength to strength over the last decade, with more to come.

The company has seen ten years of development in supplying the textile industry with a range of blended chemicals, colours, and commodity chemicals, together with developing other services and markets.

Our facilities include powder and liquid chemical



blending which can produce batches from 250kg to 1,000kg in powder blending and 25kg to 2,000kg in liquid blending. The production department is complemented with a QC, R&D and colouration laboratories.

Advanced Colours and Chemicals can toll blend to customers' specifications with the above batch sizes. Advanced Colours and Chemicals offers repack facilities ranging from drums down to tubs.

**Please visit our website for more information and contact details or see us on Stand Number L5:**  
**T 01706 835100**  
**enquiries@coloursandchemicals.co.uk**  
**www.coloursandchemicals.co.uk**

## AxFlow UK to be in attendance at ChemUK

AxFlow UK is part of Axel Johnson AB with sales of over seven billion euro and 20,000 employees worldwide, the AxFlow Group is one of the UK and Europe's largest leading suppliers of technical pumps. With operations on a world-wide scale, the group maintains offices and service locations in 26 European countries, New Zealand and Australia.



magnetically driven and hygienic models.

AxFlow UK complements its range of pumps, with its expert range of pump services from its five locations spread across the UK. These services include installation, monitoring along with comprehensive pump and seal repair capabilities.

In addition, AxFlow is also the exclusive distributor of APV products, providing heat exchangers, homogenisers and hygienic valves.

A noteworthy upcoming appearance for the company, AxFlow UK is attending the CHEMUK Expo on the 15th-16th September 2021 at the NEC, **Stand Number E54.**

[www.axflow.com/en-gb](http://www.axflow.com/en-gb)

Establishing a dominating presences in the UK, built from a vast history spanning across 65 years, AxFlow GB has established itself as a leading pump supplier and boasts one of the largest ranges of process pumps in the UK.

Demonstrating its wealth of expertise, the company maintains a varied portfolio of pumps which includes both positive displacement pumps and centrifugal pumps, such as circumferential piston, AODD, metering, peristaltic, gear, oscillating disc and lobe; as well as centrifugal pumps which embraces DIN, ISO, double suction,

## Diaphragm Pumps: Outstanding performance for demanding applications

KNF develops and produces pioneering pump technology for use in demanding applications across a wide range of industries. As a global technology leader in diaphragm pumps and systems for moving liquids and gases, KNF supports customers by drawing on more than 70 years of knowledge and expertise. This is evident through

development milestones, such as corrosion-resistant diaphragm pumps for chemical and process engineering, the temperature-resistant and heated pump head for hot gases of up to 240°C and the double diaphragm pump for transferring hazardous and valuable gases.

KNF provides its customers with extensive advice, reliable service and customised, flexible solutions. Our standard pumps can easily be modified to suit a wide range of customer specific solutions for your application. We work closely with you to design customised project pumps that give you a competitive edge in your target market. From its configuration to its testing conditions and packaging, your project pump is tailored to your needs.

KNF - your partner for customised pumps and systems.

**KNF UK has a dedicated team of experienced technical pump engineers. At our facilities in Witney, Oxfordshire we offer sales, full services capabilities, local stock, system builds and technical support. Visit our website to see our range of pumps at: [www.knf.co.uk](http://www.knf.co.uk) or call us 01993 778373 to discuss your application. See us at CHEMUK on Stand Number G29.**



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## ARI-Armaturen UK Ltd

ARI-Armaturen UK Ltd is pleased to be exhibiting at this year's CHEMUK at the Birmingham NEC on 15th and 16th September 2021. ARI-Armaturen UK Ltd is a subsidiary of a large German engineering company, reputed to have the largest valve stock in Europe.

We specialise in pipeline equipment for the steam and condensate loop, hot water, thermal oil and products, including an extensive range of valves, controls and steam trapping equipment in cast iron, SG iron, cast and forged steel and stainless steel.

These include:

- Control Valves
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- Heat Exchange Systems

These products are produced to exacting German, European, ANSI other internationally recognised standards, & covered by Lloyd's Register Quality Assurance DIN EN ISO 9001.

Please come and visit us at **Stand Number E37** and see our ZETRIX® double block and bleed arrangement, shown in the above image.

**If you have any questions before CHEMUK, please contact Vicki Chatfield, Marketing & Sales Development:**  
**T 01684 275752**  
**Victoria.Chatfield@ari-armaturen.co.uk**  
**www.ari-armaturen.com**

## British Adhesives and Sealants Association (BASA)

With its history dating back to its inception in 1983, BASA has excelled in its mission to become an umbrella organisation for UK adhesives and sealants manufacturers. We focus on technical and legislative aspects and on promoting awareness of the industry and technology by providing guidance on technical and compliance issues and creating a variety of networking opportunities for members, holding events using virtual platforms since March 2020.

BASA is the voice of the adhesives and sealants

industries and is an information source for manufacturers and suppliers. The association advocates on behalf of its members and liaises with Government regarding legislation and keeps Members well informed of UK, EU and International proposals and initiatives.

With the growing concerns around the environment and using sustainable products and raw materials, BASA is dedicated to helping its members minimise harmful chemical usage and educate the public on the industry's drive for safer products. BASA members work hard to



**BRITISH ADHESIVES & SEALANTS ASSOCIATION**

formulate innovative products that positively contribute to the sustainability agenda while

maintaining performance and durability.

BASA hopes to continue to reach more potential members, looking at ways to support its manufacturers post Brexit and help them to navigate potential new legislation and trade rules.

Come talk to us at Stand Number L41.

T 03302 233290

F 03302 233408

[www.basa.uk.com](http://www.basa.uk.com)

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With laboratories and research facilities as the key users of our expanding solutions, whether the requirement demands precise temperature control



of a fluid medium in the range -150°C to 550°C, or chilled water circulators to cool a laboratory water circuit or device, or shakers for blending or agitation of a test substance, or even viscosity or surface/interfacial tension measurement for polymers, oils and surfactants, LAUDA has an

effective solution to suit your precise needs.

With a diverse range of proven and robust solutions, we will ensure your technical needs are met, whilst providing a low total cost of ownership and a class-leading level of ongoing support throughout the lifetime operation, giving you the comfort that you have chosen LAUDA.

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## LABINOX bespoke stainless steel vessel, filter and furniture manufacture

LABTEX, the Huddersfield-based laboratory and scale up chemistry equipment specialist, has introduced LABINOX as a sub-brand offering off the shelf and bespoke fabrications in metal.

Sourced in the UK, the EU and the USA, LABINOX offers plain and jacketed vessels and filters and furniture to customer specifications.

Our work ranges from simple fabrications and machining to high specification bespoke projects for the pharmaceutical, food processing, water, paper and chemical industries.



Working in conjunction with skilled fabricators and finishers, LABINOX ensures that work is

completed to the highest standard and is in accordance with relevant EU directives – in particular, the pressure equipment, ATEX and machinery directives.

Services include: draughting, design, quotation and feasibility studies, fabrication supply, and project management.

See us at Stand Number J43.  
 T 01484 600200  
[info@labtex.co.uk](mailto:info@labtex.co.uk)  
[www.labtex.co.uk](http://www.labtex.co.uk)

## The new iSTEP XS stepper motor pump



As a worldwide leader in dosing technology, sera ProDos is a system provider of high-quality products and services for the dosing and feeding of chemicals and fluids. Indeed, with 75 years of experience, sera ProDos is renowned for its excellent customer service and leading German engineering, offering some of the most robust pumps available on the market.

A recent addition to sera ProDos' is its new iSTEP XS stepper motor pump. It combines an intelligent drive concept with the accuracy of a diaphragm dosing pump and sets standards regarding reproducibility and reliability. By means of the variable frequency control and a power range of 0.007..15 l/h at 10.7 bar, the application possibilities are almost unlimited. It is intuitive to use, long lasting and is particularly suitable for demanding dosing task.

The iSTEP is operated via the detachable control element by means of keys and a click-wheel. The parameterization of an iSTEP is saved in the control element. Subsequently, the control element can be connected to other pumps and the stored parameters can be transferred. Operation without a control element is also possible since there is also an additional status LED as well as a start/stop button directly on the pump. Please find us at **Stand Number E3** at CHEM UK.

Contact  
 T +44 (0)1283 753400  
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# Gericke Limited will be exhibiting at CHEMUK once again

The Gericke Group has been designing and manufacturing equipment and systems for modern bulk material processes, as well as providing design and consultation services, for more than 125 years. Gericke bulk materials processing technology can be found throughout the world in many sectors including the food, chemical, pharmaceutical, plastics and construction material industries. Our approach to turnkey projects incorporate planning, manufacturing, installing, and commissioning. All these solutions are customised to meet the specific requirements of your industry and application.



Gericke's fully owned group companies employ more than 300 experienced professionals and are located in Switzerland, Germany, Great Britain, The Netherlands, France, USA, Brazil, Singapore, Indonesia, Malaysia, Thailand and China.

Gericke have developed a wide range of specialist powder handling applications for the chemical industry, which in addition to incorporating advanced technology and superior performance features, also satisfy the industry's need for improved economy and safety.

We will have our experts on hand to talk about product loss minimisation, accurate dosing and fast clean solutions all linked within our fully automated solutions.

Gericke Limited will again be exhibiting at this years CHEMUK, **Stand Number J28.**

**Contact**  
**T +44 (0)161 344 1140**  
**gericke.uk@gerickegroup.com**  
**www.gerickegroup.com**

## Industrial Technology Systems: 30th year of trading in engineering excellence

With 30 years' working for UK and global chemical manufacturers, Industrial Technology Systems (ITS) has developed an in-depth understanding of solutions which offer value to the chemical processing industry.

The range of solutions ITS has provided range from process control of large-scale continuous processes for basic and intermediate chemical products and materials, to batch processes of speciality chemicals. Our systems are found in plants making useful products and materials including

petrochemical and plastics, inorganics and fertilisers, paints and coatings and detergents and personal care products. Our independence as a system integrator and focus on our clients' requirements optimises value delivered by the solutions we develop for them.

In today's chemical world, like so many others, data is king and ITS Ltd has designed and built real-time monitoring and reporting systems which link to ERP systems to automatically transfer plant production data to enable analysis and modelling by plant operators and management to make better decisions to optimise value from their assets and raw materials.

Our clients rely on ITS' expertise and engineering resources for long term support of their systems to ensure reliability of operations.

We look forward to meeting you at **Stand Number 36** at CHEMUK.

**T 01642 22232**  
**Joanne Rout 07798 900103**  
**Mark Taylor 07770 842997**  
**sales@its-ltd.co.uk**  
**www.its-ltd.co.uk**



## PTFE/PFA Lined Valves & Accessories

RAM Universal offer a wealth of knowledge to the Chemical and Pharmaceutical market offering brand leading products such as Richter Chemie-Technik GmbH, and Mersen high quality fluoropolymer lined pumps, valves and pipeline equipment. Our engineered products are used to transport and manage highly corrosive, environment critical, high-purity and other difficult to manage fluids and gases in the most challenging applications.



mind, where cleanliness and sterility are critical. Typical painted cast iron valves will release paint chips which can enter the piping system. Potential paint residues in the medium can be avoided by using high grade stainless steel (1.4408) eliminating the need to paint or coat the body to prevent corrosion. Stainless steel valves allows for fast, easy and thorough cleaning.

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Recently introduced, our range of stainless steel bodied valves and pipe created with the food, pharmaceutical and biotechnology market in

## Providing large-scale gas heat recovery for chemical processing

At CHEMUK 2021, stand E31, HRS Heat Exchangers will showcase its range of products for recovery from exhaust gases in the chemical industry.

HRS have supplied a K Series large gas heat exchanger for a Belgian chemical plant to cool the exhaust gases leaving a catalytic reactor (which can reach temperatures of up to 500°C) and use the recovered heat to pre-heat the cold gases entering the reactor.

For gas applications, small pressure drops are often required, so large tube bundles are needed. This particular unit contained 2,900 separate tubes – providing a



**This large gas cooling heat exchanger contains 2,900 separate tubes; a total length of 21km**

total tube length of 21km. Other design features include expansion bellows to absorb thermal dilations and stresses, and reinforced impingement rods at the shell inlet.

With a length of 7m and weighing

in at 14 tonnes, this 1.5m diameter heat exchanger is one of the largest units HRS has manufactured. Lifting lugs and transport saddles, as well as fixing supports for the bellows, were manufactured and fitted to ensure safe transport and installation.

For more information on the extensive range of HRS industrial heat exchangers and thermal technologies, visit **Stand Number E31** at CHEMUK 2021 on 15-16th September 2021, NEC, Birmingham.

**Contact**  
**T +44 (0)1923 232335**  
**info@uk.hrs-he.com**  
**www.hrs-heatexchangers.com**

## BPMA: Representing UK and Irish suppliers of liquid pumps and pump related equipment

Established in 1941, the British Pump Manufacturers Association (BPMA) represents the business interests of UK and Irish suppliers of liquid pumps and pump related equipment. Over recent years, the organisation has expanded its overall membership roster and now stands at some 110 individual companies.

All these businesses recognise the commercial benefits afforded by BPMA membership, which is regarded as an investment in overall business performance rather than a simple operational or marketing cost.

The comprehensive package of benefits is second to none and includes the important elements of business support & guidance, in conjunction with its specialist HR and insurance partners, technical help & advice, dedicated pump training, standards & compliance representation at both national and international levels, energy auditing and a unique project tendering service.

Access to key publications and targeted promotional activities, including the annual World Pump Market Report, the quarterly Flow magazine, and the weekly online News Link as well as brand exposure via the BPMA website



are also available to members. Additionally, networking opportunities at numerous meetings and events, such as the annual Pump Industry Awards and the regular Golf Day are both available and highly regarded.

**For further information on joining the BPMA, please contact Steve Smith by phone on: +44 (0)121 601 6691 or by email at: s.smith@bpma.org.uk or visit: www.bpma.org.uk**

## Labfacility: The UK's leading manufacturer of Temperature Sensors

Labfacility are the UK's leading manufacturer of Temperature Sensors, Thermocouple Connectors and associated Temperature Instrumentation and stockists of Thermocouple Cables.

The Company has been trading since 1971 and is ISO 9001 accredited. We have two UK sites – West Sussex and South Yorkshire and export to over 85 countries, Shipments are made to worldwide destinations daily.

In addition to the stocked items, Labfacility also offers



bespoke Temperature Sensors. We are specialists in the design and manufacture of custom-built temperature sensors at our 18,000 sq ft Yorkshire plant located in Dinnington. We also offer a wide range of components and fittings for sensor installation.

Quality and Service are key elements in the continued growth of Labfacility; technical support for both sensing and instrumentation is always freely available from our experienced technical sales teams.

**T +44 (0)1243 871280**  
**sales@labfacility.com**  
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## Global manufacturing leader of Rupture Disks

ZOOK is a global manufacturing leader of rupture disks with over 90 years of production expertise of high-quality metal & graphite rupture disks for the Chemical and Process Industry. ZOOK products are sold in 65+ countries and to-date have over 5,000 customers buying our products worldwide.

Our graphite division is the first and largest graphite company in the world committed to manufacturing quality impervious graphite rupture disks through product innovations and superior service. We were the first graphite rupture disk manufacturer to earn the ASME Code UD symbol stamp and certificate of authorisation.

Product safety is the #1 priority to our customers. ZOOK is committed to finding pressure relief solutions for our customers that maximise our customers' productivity and performance while keeping their people and equipment safe.

We are dedicated in utilising the latest manufacturing technology and production to stay competitive in the marketplace and can offer comprehensive custom



pressure management solutions for the selection and sizing of rupture disk products best suited for each customer application.

**T +44 (0)1909 560999**  
**sales.europe@zookdisk.com**  
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## Your Chemical. Our know-how



With almost 30 years of experience, as specialists in chemical dosing systems, WES Ltd, design, manufacture and install innovative chemical dosing solutions for the UK water industry and industrial manufacturing. The range of services WES offer extends from a simple component through to the complete design, build and installation of bulk chemical dosing systems. WES also operates a dedicated fleet of chemical dosing products to meet a wide range of temporary, emergency and long-term hire requirements. Our innovative and flexible approach enables us to be highly responsive and reactive to our nationwide customer requirements.

Each industry sector has differing requirements in terms of standards, specifications and technology. WES uses this as an opportunity to innovate and share across our customer base. Whether that's applying swimming pool technology to a unique nuclear submarine requirement or developing a



system to use Hydrogen Peroxide to kill marine infestations for one customer then using the same system to add Oxygen to maintain fish life for another customer, WES strives to exceed expectations. We welcome our clients becoming involved through all aspects of the project, product or service delivery ensuring customer satisfaction.

Check **Stand Number J53**.

**T 01256 819777**  
**info@wes.ltd.uk**  
**www.wes.ltd.uk**

## Gas compressor, blower and vacuum pump manufacturer



Air and gas handling specialists, Northey Technologies Ltd, manufacture blowers, gas compressors and vacuum pumps for the worldwide utility, process markets and Chemical Industry.

Our vacuum pumps and high-speed turbo compressors are already used in many applications across the chemical sector. All our products are designed and built to meet the challenges of this demanding environment and ensure safe, reliable operation.

Northey recently completed a fully automated, three-stage skid package for transfer of Vinyl Chloride Monomer (VCM) gas. Other completed jobs include offshore vent gas recovery, waste Fluorine gas and Uranium Hexafluoride enrichment. We have supplied many machines to the producers of process gases such as Argon, Carbon Monoxide and Helium.



The company has a long history on a wide range of chemical gas skids for global companies such as Akzo Nobel, Inter Terminals, DuPont, BP Chemicals, NAM-Shell and many more. Northey produce totally engineered package designs for specific gas handling applications, bespoke service & maintenance support.

This year, we are celebrating 75 years of providing products and services across all industries.

See **Stand Number G60**.

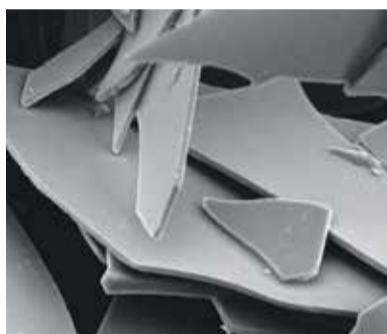
**T +44 (0)1202 668732 or 08452 600668 (UK only)**  
**sales@northey.net**  
**www.northeytechnologies.com**

## A world leader in Glassflake performance engineering

Glassflake Ltd is a world leader in the manufacture of glassflake; an engineered, performance enhancing additive. Glassflake Ltd uses an innovative manufacturing process, which has enabled accurate control of glass composition and the production of thinner flake (as low as 100nm), with uniform thickness and exceptional consistency. Glassflake is typically produced from four core glass formulations, though specific glass types can be formulated to accommodate customer requirements. Glassflake is a platelet, high aspect ratio material which imparts unique properties in a wide range of products such as coatings, engineered polymers and decorative effect pigments. Performance benefits derived

from glassflake include permeation reduction, mechanical reinforcement and improved thermal stability to many applications.

Glassflake Ltd was formed as the result of an extensive research and development to create a technically superior type of glass flake. To this day, innovation lies at the heart of what we do, in developments of new products, processes and end product applications. A diverse team of material scientists, chemists and engineers drives this. Traditionally used in heavy duty protective coatings, applications for glassflake now expand into new areas such as additive manufacturing, cosmetics, personal care and sunscreens.



We are on **Stand Number L26**.

**Contact**  
**T 0113 2703615**  
**info@glassflake.com**  
**www.glassflake.com**

## Specialising in flow meters, level sensors, instrumentation and control systems



iCenta Controls is an independent company that specialises in the supply and manufacture of flow meters, level sensors, instrumentation and control systems to engineering, manufacturing, chemical, pharmaceutical and process industries globally. We're proud of our reputation for supplying high quality precision engineered instrumentation representing some of the leading

names in flow and level measurement from around the world.

We provide instrumentation for a wide range of fluids including water, fuels, hydrocarbons, chemicals and other liquids; Air, steam and a variety of other gases. Whether you're looking for a Flow Meter or Level Sensor each application is different and after evaluating your requirements, we'll select the right products for your application whilst working within your budget.

We don't just sell instrumentation. As an ISO9001:2015 accredited company, we're committed to being efficient and knowledgeable

in delivering first class technical support and customer service from order through to installation and servicing/maintenance.

At iCenta, we're so confident of our service and products that if we've selected a product for you, we will guarantee the performance of this in your application, making your decision as risk free as possible.

We are at **Stand Number D22**.

**Contact Paul Gentle:**  
**T +44 (0)1722 439880**  
**sales@icenta.co.uk**  
**www.icenta.co.uk**

## Newson Gale: Static control for hazardous areas

For over 30 years, Newson Gale has been leading the way in hazardous area static grounding control, serving industries where processes generating static electricity have the potential to ignite flammable or combustible atmospheres.

In many branches of industry, hazardous (explosive) atmospheres exist due to the presence of flammable liquid vapours, gases, dusts and fibres. No matter how the explosive atmosphere is classified, it is vital that all potential ignition sources are mitigated, and static electricity is perhaps the most insidious of them all.

Static electricity is generated in industry by virtually all operations and processes involving movement – for example product transfer, mixing and size reduction. Fires and explosions



can occur as a result of uncontrolled static discharge from plant, people and materials, and these commonly result in civilian injuries and fatalities, as well as significant financial losses in direct property damage and plant downtime.

Visit Newson Gale at CHEM UK on **Stand Number H42** to discuss your applications and processes, and understand how we can help mitigate static ignition risks in industrial process environments.

**T +44 (0)115 940 7500**  
**groundit@newson-gale.co.uk**  
**www.newson-gale.co.uk**

**enhancing lives through chemistry**

Visit us on Stand L24!

Actikem Ltd are a multi award-winning, ISO9001-certified, UK chemical manufacturing company, offering a wide range of chemical services across the UK and Europe.

We are a purpose-led, values-driven business. The products we make, help to enhance lives. Whether it is the manufacture of hand sanitising gel to reduce the spread of infection, or the products used to aid the bio-fermentation process that help our customers manufacture anti-cancer drugs, solving everyday chemical problems for our customers is what we do.

Our ethos runs through our whole business; from the sourcing of sustainable products, and the investment in the professional development of our staff, to the lasting connections we make with our customers, suppliers and our local community, we always remain focused on being a fair, trusted and responsible business.

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# 300 years of expertise

**E**stablished in 1997, dP Doors and Shutters Ltd was founded by Alan and Kathryn Bolsover. Based in Sheffield, South Yorkshire the company maintains an impressive amount of collective experience spanning across 300 years' for manufacturing, installation, repairs and maintenance of roller shutters and doors for a range of industrial, food processing and commercial applications.

Expanding significantly since the company's inception, dP Doors and Shutters has seen exponential growth. Starting from a team of just two, the company now maintains 37 employees operating from its 12,500 sq. ft factory. A noteworthy achievement for the company, dP Doors and Shutters has successfully achieved its ISO 9001:2015 status.

As specialists in a wide range of industrial doors, dP Doors and Shutters manufactures and installs industrial doors, roller shutters, high speed doors and steel personnel doors. Offering a broad scope of products, the company provides an impressive portfolio of doors including: Insulated



Sectional Overhead, Single-Skin Roller Shutters, Fire Shutters, Steel Hinged Personnel Doors, Fire Doors and High Speed Fast Action doors.

With such a varied range of products, dP Doors and Shutters also maintains a variety of customers and has provided its products and services for many different applications including end users, manufacturing, food processing, warehouses and construction.

One of the most important factors that positions dP Doors and Shutters as a key player in its industry is its unrivalled skillset and dedication to customer service. Offering 24/7 availability, a full site survey carried out at no extra cost and an expert team providing vital support, advice and services; dP Doors and Shutters strives to achieve excellence for its customers.

"It's not so much the product, as most companies in the industry supply doors that are technically similar but, its more about our service and response times that set us apart. We guarantee to be on site within four working hours." mentioned Alan Bolsover.

One of the companies most notable ranges is its selection of wind resistant high speed doors. Consisting of the motorised rapid fold-up and rapid roll-up doors, these doors are applicable for installation both indoor and outdoor.

The Rapid Fold-Up Door has been specifically designed for areas with large dimensions such as for use in industrial and commercial sectors and facilities. Providing a selection of benefits including noise and draught reduction, the Rapid Fold-Up Door is extremely efficient and is CE marked and maintains a class 3 rating for wind resistance.



The Rapid Roll-Up Door is recommended for zones of high traffic and that require rapid manoeuvres. Making it an ideal solution for installation in any industrial sector including: logistic, automobile and pharmaceutical. The door is a certified door class 2, CE marked and supplied with all necessary safety elements. Some of its main benefits include quick installation, easy programming, high reliability and low maintenance.

Speaking of recent events, the COVID-19 pandemic has caused many new challenges for all industry sectors. We spoke with Alan about how the pandemic impacted the company, he stated that, "It was a problem especially for new door installations but the call out and repairs side remained busy. We are now trading at pre pandemic levels. We have also recently taken on two new sales people."

After facing new challenges brought about through the COVID-19 pandemic, many industries and companies, including dP Doors and Shutters are looking forward to the future, with new plans to accommodate growth and further support the business. Alan added, "In the future, we plan to expand to a larger premises to accommodate the powder coating arm of the business."

Video can be found here: <https://youtu.be/DhkW99hxakU>

**For more information on the company, please see the details featured below:**

**T 01142 889464**

**F 01142 939193**

**sales@dpdoorsandshutters.co.uk**

**www.dpdoorsandshutters.co.uk**



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## Vacuum lifting for order pickers

The COVID pandemic has brought new challenges to the logistics industry. Due to the dramatically increasing number of online orders and growth of e-commerce, and the pressures associated with staff health and safety, goods must now be picked more safely and efficiently than ever before.



TAWI's Mobile Order Picker (MOP) allows one person to do the job of two, while protecting them from injuries caused by lifting heavy objects, increasing productivity and health and safety levels at the same time. The MOP is compatible with any forklift or pallet jack, making it a highly versatile piece of equipment. With its adjustable tower height, operators can reach into pallet racks and other low headroom spaces giving them the ability to access otherwise hard to reach areas.

Pete Wood, Key Account Manager for Logistics & Airports explains, "The growing concern to many companies is finding that balance between providing manual handling aids for their operators and keeping up levels of productivity, and TAWI's Mobile Order Picker does just that. The MOP removes 100% of the weight of the products that the operators must currently lift, and the ergonomic and user-friendly controls allow the operator to move at speed and meet their daily objectives."

**Make sure to look out for TAWI, at The Health & Safety Event – 7th-9th September (Stand Numbers H78 & F20) and PPMA – 28th-30th September (Stand number B94).**

For more information, visit:  
<https://www.tawi.com/en-gb>  
 T 01604 591120  
[bethany.freeman@piab.com](mailto:bethany.freeman@piab.com)

## Has ergonomics of blue-collar industrial workers been forgotten?



Ergonomics at work is a hot topic at the moment. Office workers around the world have switched to working at home instead of company offices. Sales of electric desks and home office furniture has spiked in many countries with the aim of improving home office ergonomics. But how is the ergonomics of industrial blue collar workers?

Treston, a global leader in manufacturing ergonomic industrial furniture and workstations, has put together an information package concentrating especially on the ergonomics of mobile industrial work in order to raise awareness of the importance of good workstation ergonomics, both for the employer and for the employee. Why concentrate on mobile industrial work? Manual handling of loads is generally considered an occupational risk factor for lower back and shoulder complaints (1) and it is in fact the most common cause of occupational fatigue, lower back pain and lower back injuries (2, 3).

This information package offers practical information and advice for employers on how to improve ergonomics of mobile industrial and work. We also explain why companies should invest in ergonomics.

T 01635 521521  
[www.treston.com](http://www.treston.com)

## Bridgewood UK achieves highest level service award from Global Giant Caterpillar

Bridgewood (UK) Ltd, East Yorkshire based Vacuum Formed Thermoplastics experts achieve the highest possible (Platinum) level supplier performance award from Global giant Caterpillar.



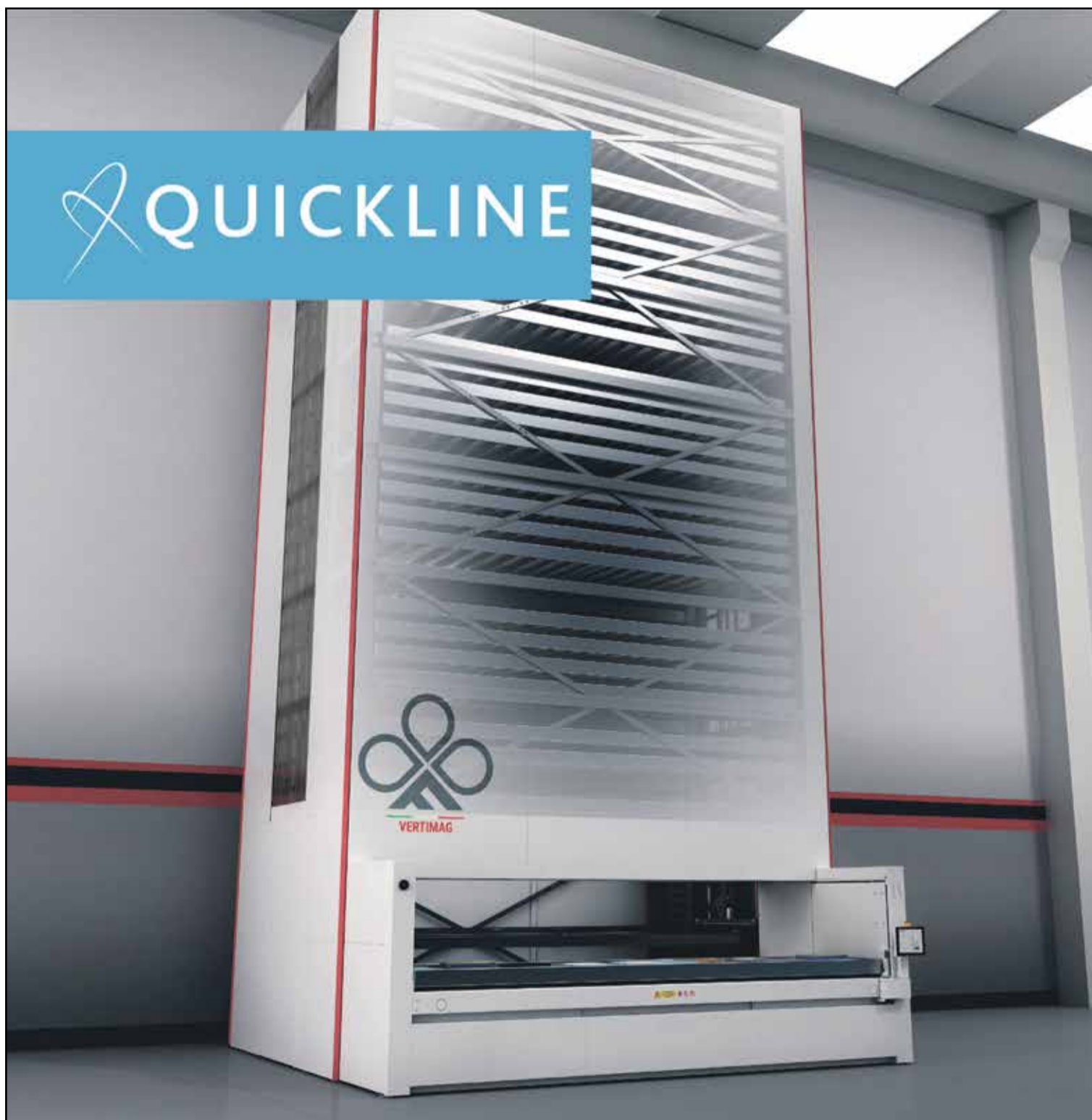
The accreditation (CAT SQEP or Supplier Quality Excellence Program – awards from Bronze, through Silver, Gold & Platinum levels) which has only ever been achieved by a select group of Caterpillars global supply base, focuses on sustained Delivery and

Quality performance metrics. Having been awarded Bronze and Silver over the past few years Bridgewood who manufacture thermoplastic exterior body panels for CAT have now attained Platinum based on their 2020 supplier performance, the only Plastics supplier worldwide to do so.

To make the step up to Platinum Bridgewood implemented a strategic team to focus on key metrics through early warning of potential upcoming events thus enabling advanced planning.

In a statement from Caterpillar, their Global Category Purchasing Manager said, "I would like to thank Bridgewood for the excellent partnership with Caterpillar over the years, and to congratulate them for the tremendous SQEP recertification achieved at Platinum level. The key results achieved in Quality and Delivery performance into our facilities are commendable and it is partners such as Bridgewood that facilitate the excellent quality product that our customers enjoy and need to build a better world."

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The innovative Vertimag Vertical Lift Module (VLM) storage system maximises the height of the warehouse whilst reducing the footprint by 1/10th.

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Quickline are exclusive UK suppliers of Ferretto systems.



# Bradshaw EV: PT2500

**B**radshaw has announce the launch of its all new state of the art The PT2500, a fully electric, remote-controlled, pedestrian-operated tow tractor designed for moving articulated lorry trailers up to 25 tonnes in manufacturing and distribution applications.

**Overview**

The PT2500 is a powerful, robust, high performance articulated trailer mover. It is easy to operate and



moves trailers safely with exceptional manoeuvrability, negating the need for terminal tractors. The high-

performance electric motors can tow up to 25 tonnes, and the hydraulically powered column lift can hoist up to 6,000kg. The remote-control functionality provides enhanced flexibility, manoeuvrability, and safety and optimally uses limited space. Simple to operate and low maintenance, the PT2500 is an ideal partner for anyone working in logistics and distribution.

**Enhanced Visibility & Manoeuvrability**

The remote-controlled PT2500 allows trailers to be



shunted safely and efficiently with no strain to the operator. Providing excellent visibility from any angle, the PT2500 and its remote control functionality let the operator walk around the trailer during manoeuvres, making them completely visible and the ability to be their own banksman, all from a safe distance. Connecting the PT2500 to the fifth wheel is quick and easy, thanks to its precise manoeuvring abilities.

**Space-Saving**

With superior manoeuvrability, the PT2500 is ideal where space is a premium, presenting outstanding turning capabilities compared with terminal tractors. The PT2500 accesses tight spaces, turning almost on itself and allowing trailers to be parked tightly, thereby optimising limited space.

**Remote Control**

Controlled via the MLTX2 bellybox transmitter, the system incorporates the latest electronic technology in a lightweight, comfortably contoured, and durable case. Easy to use, the angled lever controls enhance operator comfort. The remote-control housing is constructed from super-tough nylon to withstand shock, and the IP66-rated sealed unit can withstand harsh industrial conditions. Synthesised frequency generation enhances reliability for a robust and reliable signal. The access code system provides peace of mind, as the signal only operates the intended equipment. Designed to minimise power consumption, the NiMH battery packs provide longer life between charges. The PT2500 remote comes with two battery packs, one for the remote control and a backup; both can be charged on the vehicle.

**Braking Systems**

The PT2500 features a built-in air compressor system to operate trailer brakes utilising a dual-air brake system via the service and emergency airlines. When the tractor brakes are activated, the trailer service brakes are also activated and vice versa. The trailer mover features an e-stop; if the e-stop on either vehicle or remote is activated, this will dump the air, activating the emergency trailer brakes. A speed limiter controlled via a pressure sensor on the mast hydraulics activates when operating the fifth wheel, reducing the vehicle's speed during coupling. The vehicle also features electronic regenerative braking under deceleration and dynamic speed-sensing to prevent over speeding. An automatically applied transmission parking brake ensures the vehicle remains stationary when not in use.

**Fully Electric**

The robust and powerful high-performance trailer mover features an 80-volt AC controller, and the high-capacity 80V 210Ah lead-acid batteries provide high initial torque and smooth acceleration. Fully electric, the PT2500 is a sustainable, environment-friendly, and cost-effective alternative to diesel shunters. Producing zero emissions and no exhaust fumes, the articulated trailer mover can be used indoors for a healthier working environment. In addition, the PT2500 lorry tug is silent to operate, making night and early morning operations possible, especially close to residential areas. In the absence of a combustion engine and fewer moving mechanical parts, the PT2500 is straightforward and cost-effective to maintain.

**Cost Efficiencies**

Developed for logistics and distribution, the PT2500 trailer mover has been designed to aid 24-hour operations. Negating the need for an HGV driver to be on-site, the remote-controlled technology means articulated trailer movement can be a one-person function. Anyone with operator training can operate the vehicle without an HGV licence.

T +44 (0)1780 782621  
enquiries@bradshawev.com  
www.bradshawev.com



## TOW 25-TONNE LOADS AT THE TOUCH OF YOUR FINGER TIPS

The PT2500, a fully electric, remote-controlled, pedestrian-operated tow tractor designed for moving articulated lorry trailers up to 25 tonnes.

Remote-control functionality provides enhanced flexibility, manoeuvrability, and safety and optimally uses limited space. Simple to operate and low maintenance, the PT2500 is an ideal partner for anyone working in logistics and distribution.

WWW.BRADSHAWEV.COM/PT2500  
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# Across every industry, manufacturers are working to meet growing customer demand in a globally competitive market

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

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

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



#### Automating holemaking

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

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

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

#### Gundrilling application

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

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

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



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

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

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

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

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

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

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



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Milan, Italy  
4-9th October 2021



# Discover the new generation of WatchGas detectors

**# WeAreWatchGas is a renowned and international brand, strategically located in the biggest logistics hub of Europe, Rotterdam, from where a wide network of local distributors throughout the world is being built. Having started with a range of state-of-the-art portable gas detection, WatchGas now also presents a portfolio with a complete line of fixed gas detection, including fixed VOC gas detectors.**



WatchGas believes in providing safety in the form of gas detection to as many potential users as possible. A vision without borders, with the ambition to implement this philosophy internationally. With a large range of portable and fixed gas detection, WatchGas can offer you the right solutions from an assortment consisting of over 1,000 different measurable gases to serve numerous applications.

Besides the number of gases, WatchGas' continued development and refinement of advanced low-power LED photometric infrared technology for LEL detection of hydrocarbon gases has made gas detection safer, simpler, and more reliable than ever before, while allowing previously unheard-of battery life.

One gas detector that perfectly demonstrates the benefits of such energy conservation is the WatchGas QGM 4-gas detector

for hydrogen sulfide (H<sub>2</sub>S), carbon monoxide (CO), oxygen (O<sub>2</sub>), and combustible gases (LEL). The detector can perform for over 2 months continuously. The longevity of these detectors helps keep workers safe around the clock and removes the risk of a detector powering down in the middle of a job. Furthermore, with ATEX, UL, INMETRO, IECEX, and others, these detectors comply with most of the worldwide required certifications.

Unlike the 'standard' diffusive 4-gas detector, the pumped WatchGas POLI 5-gas detector is offering more specialised key features. The 4 sensor slots enable the user to combine 4 types of sensors, including the Dual Tox sensors capable of measuring 2 gases with only 1 sensor. Its rugged housing allows the POLI to be used in an ATEX Zone 0 certified zone. The choice of over 30 'plug-and-play' sensors makes this gas detector one of the most versatile detectors on the market, along with other key features like its wireless capabilities, a man-down alarm, but also



a pump that can be switched off in the field. In this way, you can use the pumped POLI for a confined-space check, making it a 2-in-1 gas detector.

Where the POLI has a measuring range of 0.01-2,000ppm PID sensor available to detect VOC gas, the WatchGas NEO PID would be its superior brother. The NEO PID is a specialised handheld gas detector that detects potentially harmful Volatile Organic Compounds (VOC) from as low as 0.001 ppm. The key advantage of the NEO is its larger PID lamp, used to reliably and accurately detect VOCs in this low range.

WatchGas is looking for distributors worldwide. If you are interested in becoming a partner of WatchGas, please contact them directly. For more information, please see the details below.

**Contact**  
T +31 (0)85 018 77 09  
[www.watchgas.eu](http://www.watchgas.eu)

## Jangro launches new antiviral range to tackle coronavirus

Jangro, the UK and Ireland's largest network of independent janitorial suppliers, has recently expanded its 'Professional' range with the launch of three antiviral products, in an effort to help organisations keep their facilities clean, healthy, and COVID secure. Joining the line-up is an Antiviral Disinfectant, an Antiviral Hand Wash, and an Antiviral Fogger, all of which have been tested and proven to be effective against coronavirus.

Jangro Professional Antiviral Disinfectant is a powerful multi-purpose bactericidal ready-to-use cleaner and sanitiser, which is suitable for healthcare, catering, schools, and high-risk applications. It has been tested and passed standards EN14476, EN1276, and EN13697, proving it kills 99.99% of germs and viruses. As well as coronavirus, it is effective against the viruses that cause Chicken Pox, Hepatitis B, Hepatitis C, Herpes, Rubella, Measles, and food poisoning bacteria including E-coli. It is available in two sizes, 750ml and 5 litre; the latter can be used in fogging machines.

Jangro Professional Antiviral Hand Wash also comes two sizes, 500ml pump bottle and a 5 litre container. Free from fragrance and dye, it is suitable for food hygiene and healthcare use.

Jangro Professional Antiviral Fogger creates a fine



mist that can reach into corners and difficult areas. Conforming to standards EN14476, EN1276, EN1650, and EN16777, this fogging solution can kill a range of pathogenic viruses, including coronaviruses, leaving surfaces clean and safe for human contact. It is suitable for a range of environments, including healthcare, food preparation, retail, and leisure. It comes in two sizes: the 200ml aerosol can be used to disinfect larger areas, such as offices, quickly and easily, whilst the 100ml size is perfect for smaller areas, such as vehicles.

**Jangro Professional Antiviral Disinfectant, Hand Wash, and Fogger are available to order now. For more information, visit: [www.jangro.net](http://www.jangro.net) or call: 01204 795955.**

## Engel high-vis workwear helps save the environment

A range of high visibility protective safety clothing with 50% of the material made from recycled plastic bottles has been introduced by workwear manufacturer Engel Workwear.

Called 'Safety Light,' each item of clothing can be verified to consist of regenerated polyester fibres ultimately spun from a specific number of plastic bottles to make up 50% of its content. This is combined with 40% cotton and 10% standard polyester (245g/m<sup>2</sup>) to produce a cool-to-wear, durable fabric. By using regenerated polyester which is equally as efficient as new, there are also significant consumption savings on energy, water and CO<sub>2</sub>.

The Danish firm has worked closely with Unifi, one of the world's most advanced recycling centres which transforms the recycled bottles into a polyester yarn called 'REPREVE®'.

The smart, mix-and-match range includes boiler suits (containing 37 plastic bottles), work-jackets (20 bottles), trousers (19 bottles) with Cordura kneepad pockets and elasticated waistband, bib-overalls (23 bottles) and shorts (14 bottles). All have many practical pockets and comfort-design features. There is also a specific selection especially for women called 'Ladies Light,' all with the same benefits.

Comfort as much as durable practicality is important to any wearer as not only does the 'Super Stretch' workwear provide protection throughout the day or night, it also helps reduce tiredness, further minimising the risk of accidents.



For more details, please contact Gareth Bladen at: [gbl@f-engel.com](mailto:gbl@f-engel.com), telephone +44 (0)7759 520034 or visit: [www.engel.eu/en](http://www.engel.eu/en) & <https://paper.f-engel.com/engel-workwear/catalogue/en-gbp>

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## Lorien named as world leader in health and safety by RoSPA

Lorien Engineering Solutions has once again achieved an internationally recognised award for demonstrating the highest health and safety standards.

The global engineering design and project management firm has received a Gold Award from the Royal Society for the Prevention of Accidents (RoSPA) – for the 29th year running. The Gold Award recognises continuous achievement at the highest level.



Lorien has also been awarded RoSPA's coveted Patron's Award for the fifth year. The Patron's Award is given to organisations that achieve consecutive Gold Awards for 25 years or more.

Organisations receiving RoSPA Awards are recognised as world leaders in health and safety practice. Every year, nearly 2,000 entrants vie to achieve the accolade in the UK's longest-running H&S industry awards.



**Elliot Follows, Lorien's Head of Compliance**

Corporation, specialises in capital projects for food, brewing, drinks, life sciences, advanced manufacturing, logistics and safety compliance. The company is headquartered in Burton-upon-Trent, with offices in Poland and South Africa.

The winning organisations will be celebrated at a virtual awards ceremony on 9 September.

T +44 (0)1283 485100  
[www.lorienengineering.com](http://www.lorienengineering.com)

## Cutting & Welding News

# HandyPlasma portable plasma cutting machines offer enhanced user interface, easy set-up

ESAB has launched its HandyPlasma 35i and HandyPlasma 45i manual plasma machines, which feature an advanced LCD interface that simplifies set-up



and operation for cutting steel, stainless steel, aluminium and brass. Users make all adjustments with one knob, viewing process information on a 71mm LCD panel. Both units weigh 13.5kg, use 220VAC ± 10% 50/60Hz 1ph main power and with come with a 60-amp torch and 4.5m cable.

HandyPlasma 35i delivers a 35-amp output at 35% duty cycle and has a recommended cut and pierce capacity of 6mm and a maximum sever of 12mm on mild steel. The more powerful HandyPlasma 45i has a 45-amp output at 35% duty cycle and



has a recommended cut and pierce capacity of 10mm and a maximum sever of 16mm on mild steel.

ESAB optimised HandyPlasma for applications that include autobody repair and restoration, mobile fabrication, light construction, plumbing and HVAC, metal/building/roofing, maintenance/repair, agricultural and ornamental work.

HandyPlasma offers a unique combination of simplicity, cutting power and lightweight portability. They deliver a precise cut, make it easy to follow templates, create almost no distortion and can cut through painted, dirty or rusty material with ease.

### Easy to Use

HandyPlasma offers two cutting modes, one for solid plate and one for expanded metal such as grates and fences. Operators use the push-button control knob to select and adjust variables, which are shown on the LCD. HandyPlasma automatically controls air flow to the torch, so there is no need to adjust pressure (minimum air requirements are 7.3 Bar and 110 l/min). HandyPlasma power sources have a two-year warranty, and the torch has a three-month guarantee.

T +44 (0)1992 768515  
www.esab.com

## Print & Packaging News

# Adhesives & glue guns

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

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



Adhesives, Tapes and much more

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

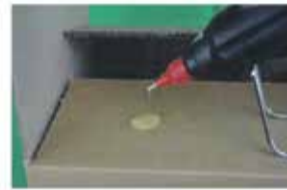
Thanks to our unrivalled knowledge of adhesives and

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

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

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# Industry leaders in temporary industrial buildings



In this issue of Industrial Process News, we have selected Aganto as our Temporary Industrial Buildings Company of the Month.

Established in 2005, Aganto is a leading supplier of temporary industrial buildings for sale and hire across the UK for a wide range of uses and applications.

"With years' of experience, we have built a reputation and brand associated with quality and we are recognised as one of the UK's leading specialists and leading suppliers of temporary industrial buildings, which we offer for sale and hire across the UK," stated Andy Butters, Managing Director.

As experts within their field, Aganto provides temporary buildings and accessories across all kinds of sectors. The flexibility and agile abilities of its buildings lend themselves to a whole host of applications and can easily be adapted to provide solutions for multiple uses.



"The flexibility of the product means it can be easily adapted to provide solutions for multiple uses. We provide buildings right across the spectrum from retail and leisure facilities through to waste management and manufacturing facilities and we get extensively involved in the logistics sector.

The products we offer are constantly changing and adapting to the market and its needs. Given the flexibility of our building range, we place a strong focus on our R&D activity to keep pace with an ever changing environment and to be best placed to support our clients with their changing demands," added Andy.

Placing the utmost importance on the company's agility and response to the needs of its customers,



Aganto ensures that it consistently embraces the ever changing needs of its industry. With this in mind, the development of its products is also centred around sustainability, something which has been a major focus for the needs of every industry and the world.

Andy stated, "As a business we are passionate supporters of sustainability and we are constantly striving in all respects to really focus on this as a development ethos."

Aganto has worked hard to build a brand which embodies and is associated with quality. The years' of experience Aganto maintains as specialist temporary building suppliers, offers reassurance for both new and old clients embarking on the procurement of a temporary building or seeking advice on additional structures to support their business activity.

"We have very much built a business on trust, quality and our friendly approach and can do attitude and in many respects this and our commitment to compliance, legislation, health and safety and the environment, sets us apart." Andy said.

Indeed, Aganto prides itself on its commitment and personable approach to customers. This has enabled Aganto to create relationships with its clients which they hold at the heart of their operation. Distinguishing itself as trusted partners and associates, Aganto consult and support its clients to provide semi-permanent building solutions competitively, compliantly and consequently but extremely importantly, safely.

"The fact that we build a business built on trust and quality and the friendly approach that we offer, is one thing but we are also very committed to compliance legislation, health and safety and the environment. I can list lots of USPs that differentiate



us to that of our competitors and they tend to be service led not necessarily product led," stated Andy.

From the early days, Aganto has always maintained a varied client base and enjoyed a range of clients from the grass roots of SME's to its Blue Chip customer base. Aganto's ethos is to treat all clients as equals and the company values the support and contribution that all bring to its business.

"The versatility and strength in depth of Aganto offers great resource in all capacities and highlights our ability to work on projects of any size." Andy explained.

In terms of recent events, Aganto is currently in the middle of a very busy year and is working on key projects across some very diverse sectors. "The sectors and projects are representative of the



business's resource and experience and we are excited and proud to be supporting amongst others significant UK infrastructure developments for now and into the future," said Andy.

After a tumultuous year, many industries have faced recent challenges in light of the COVID-19 pandemic, which has caused a shift in focus for many companies looking internally at ways to evolve in the new demands of its customers and markets.

Andy expanded, "In a constantly changing environment, Aganto has been adapting and



focussing on an ever evolving market place and supporting our clients through these incredibly fluid times with temporary building solutions and services. With recent streamlining and the continued focus on growth, our business is incredibly agile and has never been positioned as strongly to support UK industry."

With an eye on the future, Aganto is constantly working to be best positioned to react to it clients and industries needs, quickly and efficiently. Careful, considered and ongoing market analysis enables this by the way of development and supply chain activity.

Another area of continued development for the company is its focus on sustainability. Sustainability is a key factor for the company's future and Aganto aims to not only demonstrate its commitment to sustainability in terms of its products and materials, the company is dedicated to continuing a sustainable approach within the business as a whole. An example of which, is evident within its current process as Aganto is currently upgrading its vehicle fleet to electric and hybrid and further assessing the environmental approach of its supply chain.

"We really believe that moving forward we can look to reduce material usage and be able to offer even more competitive solutions to customers by considering the materials that we use and sustainability of materials and the stainability of our operation," said Andy.

Speaking of other future plans, Aganto is looking forward to the reopening of trade shows. Andy explained, "We will be very excited to revisit our trade show presence in the near future and very much look forward to exhibiting where and when we can. Trade shows that we attend tend to be varied and sector specific and our message is of course tailored to the individual event and sector but our message of quality, commitment and support never changes."

**For any further information, please see the details below:  
T 01635 897704  
www.aganto.co.uk**



## Tickling the SPD nerve

“With Surge Protection Devices (SPD) becoming increasingly common in installations, it is surely time that there was an accepted test to confirm their efficacy,” says Brendan Beaver, Manager of Metrel UK, a manufacturer of innovative test solutions.

“The manufacturers say that they are 100% tested before they leave the factory, but it is not hugely reassuring to the installer whose insurance take on liability once they supply and install the SPD.

“Metrel multi-function testers have for more than 10 years

offered a ramp facility on the insulation test which gives the ability to test varistors and some SPDs in the field.

“Maybe it is time that the powers that be recommend a test protocol which could be incorporated in all multi-function testers.”

**Contact**  
**T 01924 245000**  
**F 01924 245007**  
**brendan.beaver@metrel.co.uk**  
**www.metrel.co.uk**



## Read all about the latest advances in Imaging Cameras

Quantum Design launch a new Imaging magazine jam packed with application notes, articles and case studies from their partners plus a free to enter Competition!



Quantum Design UK and Ireland have recently launched their first bumper issue of their new Imaging Cameras magazine, drawing on case studies, articles and applications notes from leading manufacturers:

- Specim
- Raptor Photonics
- InfraTec
- Cordin Scientific

With a foreword by their new Camera Sales Engineer, Luke Nicholls, other highlights of the magazine include:

- Advancing Geology with Hyperspectral Imaging
- Avoiding Contamination in the Food Industry
- Infrared Cameras for Temperature Scanning in the Fight Against Covid-19
- SWIR Cameras for Telecommunications Applications
- Streak Cameras in Action (videos)

- Avoiding Contamination in the Food Industry.
- Thermography for Optimisation of Installed Wind Turbines
- Scientific Cameras for Microscopy
- Analysis of the Thermal Conductivity in Nano and Mesostuctured Polymer Systems
- Remote sensing of Vegetation using SWIR cameras on a UAV
- Aerial Thermography

And much, much more....

**Download your free copy of the magazine:**  
<https://tinyurl.com/67csnphc>

QD-UKI are also excited to be able to offer their readers 'try before you buy' on two great products: the InfraTec ImageIR and the Specim IQ.

Read the magazine to learn more – check out pages 31 and 37.

Plus, there's information on a newly launched Imaging Competition



#HappyToBeBackInTheLabQD – a fun and easy Twitter photo competition celebrating getting back into the lab at long last. Learn more about the competition, prizes and how to enter here: <https://tinyurl.com/284ww88v>

QD-UKI will be running an Imaging Cameras Roadshow this Autumn and you can add your university or lab to the itinerary.

Find out more on page 19 of the magazine.

**T +44 (0)1372 378822**  
**info@qd-uki.co.uk**  
**www.qd-uki.co.uk**



**imaging cameras roadshow**  
 COMING THIS AUTUMN  
 Our Camera Sales Engineer, Luke Nicholls, will be embarking on an all-England road trip around the UK this Autumn. He will be visiting Universities and laboratories up and down the country to provide free seminars, demos and talks. Get in touch if you'd like Luke to visit you. [Luke@qd-uki.co.uk](mailto:Luke@qd-uki.co.uk)



**Quantum Design**

UK AND IRELAND

**Read all about the latest advances in Imaging Cameras**



Quantum Design launches a new Imaging magazine jam packed with application notes, articles and case studies from its partners plus a free to enter Competition!

Includes content from leading manufacturers:

- Specim – Hyperspectral Imaging Cameras
- Raptor Photonics – Imaging cameras
- InfraTec – Thermography cameras
- Cordin - High speed imaging cameras

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## The New PIXAVI Cam... Hazardous Photos!

**PURCHASE NOW AT 247ABLE!** This Bartec PIXAVI Cam Intrinsically Safe Digital Camera replaces the Gravity X/Xcorder EX4000 cameras and is certified for use in ATEX/IECEx Zone 1/21 hazardous areas, as well as CSA Class 1, Zone 1 (for US and Canada).



The PIXAVI Cam (Android 9.0) now has a 12.2 megapixel back facing camera with Ultra 4K video recording and 8 mega pixel front facing camera with 1080p video recording capabilities. The improved 5.5" AMOLED display makes capturing images and video simple, even while wearing gloves. PIXAVI Cam's reduced weight and size means it is easy for engineers to carry either in a pocket, or with a dropped safety strap.

Whether it's documenting, live-streaming or routine inspection, the PIXAVI Cam is a very powerful camera for use in the most challenging conditions whilst also allowing immediate upload to a network or computer.

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## Vision Engineering achieves ISO 13485:2016

Vision Engineering, a 63 year old British leading designer and manufacturer of high-quality visual measurement and inspection technologies, has attained ISO 13485:2016 and EN ISO 13485:2016 accreditation from the British Standards Institution (BSI) and is now a BSI accredited contract manufacturer of mechanical, electronic, electrical, and optical medical assemblies and components.

### International Recognition

The ISO 13485:2016 standard is an internationally recognised standard of quality and safety for the medical device industry and provides stringent guidelines for medical device manufacture. The certification process recognises that Vision Engineering meets all the requirements to manufacture medical devices and components and builds on the ISO9001:2015 quality systems already in place at Vision Engineering.

### Modern Manufacturing Facilities

Vision Engineering's full service modern manufacturing facility includes design, machine shops, paint shop, clean room and assembly. It is replicated in the USA, with a wholly owned full



service manufacturing facility in Connecticut.

In addition to its manufacturing services capability, Vision Engineering supplies non-contact and contact optical and digital microscopy and measuring systems to a wide range of global manufacturers, including medical device, aerospace, automotive, defence and their multi-tier supply chains.

Mark Curtis, Managing Director, Vision Engineering comments, "We are delighted to be awarded the



ISO standard ISO 13485:2016 for our manufacturing facility. This ISO standards confirmation is a key statement of our ability to address the requirements of our manufacturing customers across the world and provide certainty of the quality of mechanical, electronic, electrical, and optical medical assemblies and components.

"It will help enormously in our worldwide business with medical device companies and also with Vision Engineering's Manufacturing Services business line for wider sub contract manufacturing opportunities."

Vision Engineering Ltd is a global leading-edge designer and manufacturer of patented ergonomic stereo optical and digital instruments, used for

inspection, manipulation, measurement and analysis of manufactured parts, by most of the world's leading manufacturers and their extended supply chains.

Founded in 1958 and wholly British owned, Vision Engineering's Global HQ, design and manufacturing facilities are based in state of the art modern premises in Woking, Surrey, UK, with extensive manufacturing facilities in the UK and US. Regional sales and tech support offices are located throughout North America, Europe and Asia.

Vision Engineering is also an ISO 17025:2017 certified calibration laboratory, with temperature controlled calibration space. Our accreditation is limited to those activities described on our UKAS schedule of accreditation which is available here: <https://tinyurl.com/ddf4uxph>

**Contact Phillip Townend, Group Marketing and Communications Manager,**  
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[phillip.townend@visioneng.co.uk](mailto:phillip.townend@visioneng.co.uk)  
[www.visioneng.com](http://www.visioneng.com)

## DD-Scientific release new high reliability oxygen sensor

DD-Scientific, a leading manufacturer of electrochemical sensors for safety, industrial, residential and medical applications is pleased to announce the latest addition to their formidable range of products.

The S+EOX is a high-performance oxygen sensor optimised for use in industrial environments and process monitoring. It offers 0-100% O<sub>2</sub> measurement with an extremely fast response time coupled with low drift performance even in the toughest of atmospheres. Its stable millivolt output is automatically compensated for temperature and is designed to operate failure free for greater than 1.6 million %O<sub>2</sub> hours which is greater than 7 years in ambient oxygen levels.

The product is built on advanced, high volume optimised production lines and is subjected to a sequence of exhaustive tests before being shipped to customers ensuring excellent out-of-the-box performance and reliability. During



manufacture, each assembly process has in-line checks to confirm capability to meet the final specification.

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

## Water Activity Analyser for Food and Pharmaceutical Applications

The latest Series 4TE instrument from Labcell is an accurate, quick, simple and cost-effective way for food manufacturing and pharmaceutical companies to gain valuable information about gels, powders, pastes and tablets. New for customers is a live-demonstration service so that potential users can see the product in practice while talking to the key technical team – securely and confidentially. By using a video conferencing facility and using samples of your products, Labcell is able to offer a truly bespoke trial of the Aqualab 4TE.



The AquaLab Series 4TE produces accurate measurements of the water activity in active ingredients, excipients and formulations. Water activity measurements are essential when following due course and process as part of GMP (good manufacturing practice) because water activity has a significant bearing on product stability, as well as the handleability of materials in production and packaging equipment. AquaLab Series 4TE is a precise, easy-to-use instrument which enables lab-quality measurements of water activity to be made in the production environment. It is suitable for use by formulation and research and development teams, as well as those working on new packaging designs.

A feature of the AquaLab Series 4TE is temperature equilibration allowing users to set the sample temperature to anything from 15 to 50°C; the analyser then maintains that temperature throughout the test. The instrument has a measurement range of 0.030 to 1.000aw, an accuracy of +/-0.003aw and a repeatability of +/-0.001aw.

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## Plug and Play Reactor Modules for Flow Chemistry

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HotChip™ is a standalone heater module that

provides precise temperature control of flow chemistry glass static mixer (GSM) chip reactors. The Uniqsis range of chemically-resistant borosilicate glass chip reactor blocks can be used as static mixers to ensure effective mixing before a coil reactor or to perform fast exothermic reactions where reaction times are often less than 1 minute.

The Cold Coil II™ Flow Reactor Module from



Uniqsis is designed to provide a flexible, entry-level solution for low temperature flow chemistry applications. Used in conjunction with an external thermoregulation circulator the Cold Coil II™ is able to maintain stable temperatures between -78°C and +150°C for extended periods of time. A glass cover is provided with the Cold Coil II™ to eliminate convective effects within fume cupboards.

**For further information on affordable, high performance plug-and-play reactor modules for flow chemistry, please visit: <https://www.uniqsis.com/paAccessories.aspx> or contact Uniqsis on: +44 (0)845 864 7747 or email: [info@uniqsis.com](mailto:info@uniqsis.com).**

## Devastating water leak drives move to improve sustainability

The Maulide Group at the University of Vienna (Austria) describe how a devastating water leak in a nearby chemistry laboratory prompted them to search for alternative, water-free, options to Liebig condensers for refluxing. The group teamed up with Green Labs Austria to see if they could provide and share a more sustainable solution to water cooled refluxing in the lab.

Green Labs Austria (<https://greenlabsaustria.at/>) is a non-profit association, started by students, postdocs and technicians from the Department of Functional and Evolutionary Ecology, at the University of Vienna, to serve as a platform for communication and discussion of sustainability practices within

the laboratories. A key aim of Green Labs Austria is to reform how scientists throughout Austria and beyond think about energy and water usage, plastic consumption, recycling and traveling.

The Maulide Group at the University of Vienna are a dynamic and enthusiastic international group of researchers passionate about (organic) chemistry. The Group are taking action on a daily basis to reduce the environmental impact of their labs and are now a member of the Green Labs Austria initiative. For further information, please visit: <https://organicsynthesis.univie.ac.at>

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## New Bottles from Old Bottles: Economical and FDA-Compliant recycling of PET Flakes

Polyethylene terephthalate (PET) is a high-value material that is on course to take over a key function in the plastics industry's path toward a circular economy. PET flakes can now be processed without pre-drying into pellets using Coperion ZSK twin screw extruders. Next they are condensed in the SSP (Solid State Polycondensation) reactor, and reprocessed back into bottles again with the quality of virgin material.

PET recycle manufactured using this innovative process has received approval from the United States Food and Drug Administration (FDA) for food-contact uses. Thanks to the highly efficient plastification within the ZSK extruder, Coperion systems for this bottle-to-bottle recycling process achieve throughput rates between 2 and 8 tons per hour, therefore recycling companies profit from very high product quality, reduced operating and logistic expenses as well as from energy cost savings up to 30% in comparison to conventional PET recycling methods.

Bottle-to-Bottle recycling now clearly more efficient PET plays an ever more important role in recycling, due to



the large volume of packaging materials in use today. PET is a very high-value material, possessing extremely good properties for reprocessing. Its continuously expanding use in single- and reusable bottles, as well as its recovery via deposit systems, add to its value. Correspondingly, it can be lucrative for companies to focus on PET recycling.

Contact Kathrin Fleuchaus,  
T +49 (0)7118 972507  
kathrin.fleuchaus@coperion.com  
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## FEG solves particularly sticky particulate problems

An IR pollution control and project management expert FEG Global has unveiled its specialist odour abatement solution, designed to tackle complex odours from industrial high-temperature frying and cooking environments.

FEG's patent-pending Liquid Gas Contact Scrubber (LGC) features a flexible modular design which can be tailored to specific user requirements.

Odour and oil mist emissions from applications such as frying, cooking, coating and seasoning within the food industry can cause major problems and lead to complaints to Environmental Health.

These processes often produce sticky particulate, fat droplets and oil mist which is hard to filter with traditional



methods and coat nearby buildings and roofs. Food manufacturers rely on scrubbers to remove these contaminants and compounds causing odour, but the devices are often not efficient enough leaving the odour unabated.

The LGC is specifically designed to tackle these issues, while also providing an easy-to-use odour removal solution.

Unlike other types of scrubber, such as chemical or carbon, which tend to perform differently on different compounds and are not suitable for particulate, the LGC can include multiple stages to tackle a variety of odours and the sticky particulate.

FEG's practical and effective solution to odour control delivers compliance with the requirements of BAT (Best Available Technique) and can be controlled via a simple-to-use interface with remote data logging functionality.

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## Metal Marking News

# Record working dimensions for the new XXL-box

"After the huge success of the L-BOX and XL-BOX, our compact marking stations, we have been asked on numerous occasions to offer a larger workspace in order to be able to mark large parts." These are the words of Eric B. Marketing and Sales Director at SIC MARKING, world leader in industrial traceability, to justify the launch of the new XXL-BOX Laser Marking Station.

Available in three basic sizes at a very competitive price, the XXL-BOX perfectly complements SIC MARKING's laser workstation wide range of products, which makes it possible to meet all customer requirements in terms of cabinet size.

As its name indicates, the new XXL-BOX station offers record working dimensions (up to 520 mm high) as well as great modularity thanks to its 3 standard models (800, 1,200 and 1,600mm wide) and its numerous accessories. The strength of this new product also lies in its ability to adapt perfectly to different customer requirements, illustrating SIC MARKING's extensive know-how in the realisation of tailor-made solutions:

"The XXL-BOX is ideally suited for the classic use of its large working volume, but also enables the project manager at SIC MARKING to offer tailor-made solutions for more complex large-volume marking applications. As Project Manager, Nicolas E. highlights the flexibility of this new product through a large number of accessories. "Automatic three-dimensional axis, automatic loading system, loading drawer or turntable are just a few examples of the applications proposed by our technical teams to meet our customers' needs."

Requested by a large number of customers, the new XXL-Box Laser Marking Station has met a great success with ETIs and large companies manufacturing large parts or sub-assemblies such as shafts, valve or pump bodies, crankcase, exhaust components but also bodywork sub-assemblies. It is not surprising to find it in the sectors in which SIC MARKING is already active: Automotive, Aeronautics, Industrial Vehicles, Hydraulics, Oil & Gas.

As a result, the international French group had the opportunity to prove all the qualities of its new product by taking up the challenge offered by a major German automotive supplier. The company wanted to mark a Datamatrix code on gearbox prototypes. The solution provided was an XXL-BOX laser marking station, with a 5-axis laser that made it possible to achieve a marking window of 900 x 500 x 500mm. The project was the result of a technical and commercial cooperation between the headquarters and SIC MARKING GMBH

(the group's German subsidiary) and highlighted the great adaptability of this new product to customised requests and the group's ability to monitor projects at an international level.

SIC Marking is an expert in marking and traceability for the automotive, aerospace, mechanical and energy sectors. The company has more than 300 employees worldwide with a turnover of 55m €. It operates in more than 50 countries and has 9 subsidiaries. Its offering consists of standard and customized solutions in laser, dot-peen and scribing technologies as well as various associated services (customer support, spare parts, training, retrofit, maintenance contracts). SIC Marking has a customer-oriented culture and promotes operational excellence to enhance the customer experience.

The business is based on permanent identification and complete traceability of industrial products and components will stop since 1986 SIC marking designs, manufactures and distributes dot peen, scribing and laser marking machines.



With 20 years of experience, the group has become a leader in the market. SIC Marking is able to design application for a wide range of materials, such as steel, alloys, stainless steel, titanium, aluminium and plastics.

Excellence, expertise and innovation are the values inscribed in SIC Marking's DNA. Driven by its strong principles, the company and its employees have built



trusting relationships with various customers. Thanks to this commitment, it has become a performing group, in constant development worldwide.

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# EMiR Software: Your market leading business management solution

In this issue of Industrial Process News, we are proud to announce that Solutions in I.T. is our Specialist Software and IT Solutions Company of the Month.



It's the understanding of the industry that makes EMiR software unique. As a software author, Solutions in I.T. provide specialist software and I.T. solutions for the electro-mechanical repair, sales and service industry.

EMiR Software was released in 1994 by the current owner, Gary Downes. Gary took on the role of Managing Director and is now accompanied by fellow Development Director, John Anderson. Solutions in I.T. is the company behind the EMiR Software brand. Headquartered in Market Harborough, Leicestershire, its main office runs sales, marketing, accounts, training and hosted server divisions. The company's development facility is based in Harlow, Essex which shares the same cloud hosted server solution allowing seamless connectivity between departments and homeworking capability.

EMiR is a business solution designed specifically for electrical and mechanical engineers. "If a company is involved in manufacturing, distributing, repairing, servicing, assembling, installing and commissioning projects or equipment, then EMiR was written for you," states Steve, EMiR's Business Development Manager.

Solutions in I.T. pride itself on the range of specific sectors EMiR caters to, no other business software provider has as many customers in the electro-



mechanical industry. With over 25 years' experience in the industry, Solutions in I.T. has been asked to solve many of the challenges faced by company leaders. The forward-facing development of EMiR is debated and decided by its customers, who pool ideas for the greater good of the community. These ideas and innovations are communicated through the EDFG – the EMiR Development Focus Group and annual Open Days.

Like many other businesses, COVID-19 has meant many companies have had to restructure business strategies and develop new ways of working. With the advantage over the years of Smart Site, the company's smartphone app for engineers and EMiR-Cloud, has meant cloud hosted IT solutions has been its biggest growth area. By reducing the amount of paperwork being circulated around the business, Solutions in I.T. has built a more sustainable and visible way of working so that its employees, wherever they happen to be working, can operate without disruption.



Some of the EMiR Team at a recent Customer Open Day

Its innovative, hard-working and customer-focused approach has resulted in considerable business growth. "We have implemented Traction EOS, a business management methodology that is a complete set of tools and concepts to help simplify, clarify and achieve our business goals. We've expanded our hosted server team and will shortly offer 24/7/365 support on cloud solutions offering even greater peace of mind to our UK and Worldwide audience," explains Steve.

As market leaders in business management software for the electro-mechanical industry, Solutions in I.T. is always chasing expansion. Its growth strategy for the next five years shows increased product development plans, which is shared with its customers. Its business vision forms a large part of its Traction EOS Management philosophy, echoing its honest commitment to the future of the business and the industry.

With the majority of business coming from word of mouth amongst trade association members, the company supports networking and growth initiatives developed by AEMT, BPMA and EASA associations. Steve explains, "We are delighted to sponsor the AEMT and BPMA Industry Awards, association golf days and be a presence at conferences both in the UK and overseas."

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## Casting & Forging News

# Foundries resilient and optimistic

UK foundries report that there is hope for a return to pre-COVID capacity utilisation levels, despite the impact of the 2020-lockdown measures and the resulting decline in production activity.

This is the finding of the Cast Metals Federation (CMF) Business Impact Survey – 2020 Summary Report.

Despite the negative impacts of the pandemic including a fall in demand, the

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need to pause business operations for a short period and make additional investments to make workplaces COVID-secure, and prolonged supply chain disruptions, the mood remains positive amongst CMF members, with most reporting optimism for 2021.



With 2019 resulting in a significantly better year than recent years for the UK foundry sector, a decline in order books was anticipated during the early part of 2020, with concerns surrounding the outcome of ongoing Brexit trade deal negotiations. By March, the industry was also faced with responding to the global coronavirus pandemic and has subsequently responded with agility and resilience. The rapid change in volumes for the automotive and aerospace sectors saw order books plummet, specifically in the diecasting and investment casting sectors. Two lockdowns and the practicalities of operating facilities under imposed government social distance restrictions – reduced workforce, additional health & safety measures in working and common areas, supply chain disruptions etc. – have taken their toll.

The impact on business has been significant. Throughout the summer order books remained short, but by the autumn business levels were picking up, with the foundry sector well placed to respond. However, a resurgence in infection rates resulted in a second lockdown and a slowdown in demand as the year closed.

To counter the negative effects of the pandemic, CMF members have drawn on the assistance made available by various government schemes, such as CBIL loans for additional finance, deferred VAT payments and the coronavirus job retention scheme (CJRS), however this has not been without its own challenges.

CMF members report that by far the most significant support has been the CJRS, with a large number of members making use of the opportunity to furlough employees at different periods throughout the year for varying lengths of time. By the middle of 2020, the average percentage of employees on furlough was 30%. This lifeline enabled Members to retain staff and meet customer demand, playing to the sector's strength in terms of skills and responsiveness.

The scheme has allowed companies to maintain production levels when required, most notably in the latter half of the year particularly quarter 4 when orders increased. There were however some redundancies, but the levels were low compared to other sectors.

As expected, business disruption has taken many forms and is not merely confined to a downturn in customer demand. At the start of the crisis, many members significantly reduced or paused production to reorganise workplaces and implement social distancing measures, to enable operations to resume in a safe and efficient manner. In addition, procedures had to be adapted

to accommodate operating with a reduced workforce to meet government guidelines and to support the shielding of vulnerable employees.

By the middle of the year, the industry had adapted to the new working procedures, but supply chain disruptions continued thanks in part to the lack of production capacity throughout the supply chain and logistical challenges. This was compounded by significant increases in costs for waste disposal, energy supplies (specifically in quarters 3 and 4) and insurance. From mid-quarter 2 through to the middle of quarter 3, some members reported problems with sourcing the required PPE/RPE because of an increase in demand from the NHS and social care sectors, thus reducing availability and driving up the cost. However, this temporary problem was mostly resolved by the end of quarter 3.

In some instances, customers also sought notable price reductions with the foundry industry thus squeezed at both ends.

Despite all of this and as the economy mounted a tentative recovery during quarters 3 and 4, CMF members reported improvements in order books.

There are of course exceptions and those businesses considered to be in an 'essential' supply chain – 40% of foundries and 15% of foundry suppliers – had a busy year, often with increased demand and the specific challenges that poses.

Towards the end of the year and the end of the Brexit transition period, a large proportion (73%) of members said they were prepared for a new way of working as the UK exited the European Union. There was concern over the late timing of the publishing of final detailed guidance, but there is also 'hope' that there would be increased opportunities for local content in supply chains.

Notably, despite a very testing year, no member has reported the need to close or scale-down operations in the longer term. Members also reported that on average they would return to 2019 capacity levels within ten to twelve months.

Speaking about the results of the Survey, CMF CEO Dr Pam Murrell FICME said, "Our sector has faced an enormous challenge during the past year and CMF members have responded as they always do, with remarkable resilience. Their optimism and robust handling of what has been a challenging year for all industries and society is a reflection of their competence and abilities. With industry gearing up throughout the Brexit transition period and awaiting trade deal news, 2020 was set to provide certain complexities, but nobody could have predicted a global pandemic and what that would throw into the mix. However, the wheels of industry continue to turn and CMF members have an important role to play in contributing to the UK's GDP and they haven't disappointed. Our sector has 'dug deep' and found solutions during the harshest of conditions and we can be particularly proud of that."

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# Your global partner for dosing and control systems

In this issue of Industrial Process News, we are delighted to announce that we have chosen to present our Industry Excellence Award to SEKO for its professional, global market-leading services in dosing and control systems.

Established in 1976, SEKO is a world-renowned manufacturer of dosing pumps and metering systems with over 40 years' experience. SEKO designs, manufacture and supplies chemical dosing pumps, dispensing systems and control units for the cleaning, hygiene, water treatment and industrial processes markets. Utilising its turnkey style service solutions and dedicated customer support, SEKO works with its clients from the design stage through to post-installation technical guidance.

Shining a light on industry excellence, SEKO products are renowned for their reliability, dosing precision and ease of use. "We believe in long-term client relationships based upon mutual trust, giving customers value for money and a long lifespan from their products. We're also becoming increasingly known for our integration of remote connectivity," states James Norgate, International Marketing Manager.



"Our customers tend to be building or facilities managers, maintenance personnel and also chemical companies, from whom their clients often buy chemicals and dosing equipment as a package. Many of our systems are modular, meaning operators can easily add additional units to their installation as demand increases," says James.

Ever globally present, SEKO is headquartered in Rieti, central Italy. As a truly multinational organisation, supported by teams in over 20 countries, SEKO also has an established accredited partner distributor network which ensures professional and local customer support in more than 120 countries. Its latest addition in 2020 saw the opening of SEKO Columbia, marking its 23rd worldwide subsidiary. Everyone, wherever they are or in whichever function they work, shares the unique SEKO passion which is the driving force that nurtures a cultivating family environment where individuals feel supported and valued.

In recent developments, SEKO has rebranded its Industrial Processes Division as Exakta which is accompanied by its new website [www.exakta.com](http://www.exakta.com). From early project development to on-site installation, Exakta assist in selecting the most suitable accessories, drafting ad-hoc reports, providing technical analysis and issuing predictive maintenance guidance for a complete turnkey service. Operating originally under the Bono Exakta brand, Exakta has an accumulated experience of close to 60 years which has earned the company its reputation as a trusted partner of major players to deliver quality solutions across the globe.

Another notable innovation came as a response to the COVID-



19 pandemic in 2020. SEKO launched DispenserONE®, a revolutionary hand sanitiser system that combines high capacity (up to 25,000 doses between refills), automatic, touch-free electric motor-powered dispensing and remote access to, and management of, data via smartphone. The system allows operators to do away with light-duty, low-capacity conventional dispensers and replace them with a permanent unit that requires virtually zero maintenance. Please see [www.dispenserone.com](http://www.dispenserone.com) for more on this series.

"We're also increasingly integrating IoT in our products, such as our Wash Series laundry dosing systems and the Elektra pump controller, which allow programmes to be monitored and managed from any location via smartphone. Operators can view system status 24/7 wherever they are, meaning maintenance can be properly planned and unwanted downtime prevented," explains James.

Inevitably with the COVID-19 pandemic many businesses worldwide faced extreme challenges. However, SEKO faced these head on and continued to operate despite the difficult economic and logistical conditions the business faced. "Many staff have worked from home whilst we've been able to continue manufacturing with appropriate COVID-19 safety procedures in place. As a global business we have met the challenge of each country having its own COVID-19 restrictions and ensuring compliance in each territory. This has presented many logistical challenges but thanks to excellent communication between territories we've been able to overcome these and continue to supply to maximum possible capacity," stated James.



Embracing knowledge, expertise and innovation is what drives SEKO forward. The company is constantly evolving through product innovation, shrewd acquisitions and the opening of new branches around the world. "We are planning appearances at a number of prominent industry trade events which will be announced in due course," confirmed James.

Our Industry Excellence Award celebrates the advances in operational systems and processes and the businesses that make them happen. The SEKO team's initiative to constantly improve and progress forward has delivered improved operational performance for the company across the globe. Seeing the industry with fresh eyes and a keen approach, SEKO is a remarkable example of what can be achieved when a company stands firm in its commitment to not only its customers but also to each other.

Finally, we spoke with James on how SEKO felt to be the recipients of our Industry Excellence Award, "SEKO is delighted to be chosen for this award, especially from such a competitive marketplace; it reflects the hard work and dedication of more than 1,300 employees across all our global subsidiaries. The COVID-19 pandemic has meant that like most businesses we have faced some unprecedented challenges, which makes the award even more pleasing."

If you would like more information on SEKO, please see below:  
T 01279 423550  
[sales@seko.com](mailto:sales@seko.com)  
[www.seko.com](http://www.seko.com)



Standards and professionalism are the cornerstone of what makes SEKO a key asset to the industry. Serving a multitude of industry sectors, SEKO has a large customer base. Its products have a vast range of dedicated application uses, from food production to car wash, hospitals, transport hubs, schools, factories, offices, water-treatment plants, power generation, swimming pools and many more.

At the heart of the SEKO business is its research, design and development organisation. With over 10% of its employees working in this crucial area, SEKO's ability to find unique solutions to customers' everyday concerns is its defining feature. SEKO is a passionate, dedicated global family of professionals who really listen to each of its partners and is committed to delivering the right solution in the hygiene, water treatment and industrial process markets.

