

# INDUSTRIAL PROCESS NEWS

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# IPN

## The benefits of 'drying' biogas

Biogas generated from anaerobic digestion (AD) contains a mixture of compounds including water vapour. This is not always considered by those burning biogas in a combine heat and power (CHP) facility.

If water enters a CHP engine it can decrease its efficiency and lead to corrosion, resulting in reduced biogas yields and engine damage. CHP engines are one of the most expensive pieces of equipment to replace on an AD plant, so it makes sense to look after them.

Additionally, an inefficient CHP engine will result in lower electrical output and higher capex. Removing water from biogas also prevents corrosion of other pipework and components and removes a proportion of water-soluble gases such as hydrogen sulphide, ammonia and siloxanes.

The HRS Biogas Dehumidification System (BDS) is specifically designed to remove water with the minimum use of additional energy. Rather than heating the biogas to dry it, the BDS uses



condensation to remove water from the gas.

By reducing biogas temperatures from ~40°C to ~6°C, more than 90% of the water volume is condensed from the gas. A chiller system supplies coolant which is transferred to heat exchangers: as the biogas cools, the water condenses from the gas, leaving a clean and dry biogas ideal for use in CHP engines. Heat recovery uses the cold biogas is used to pre-cool any incoming biogas before entering the CHP, reducing the cooling load and recovering as much as 20% of the energy needed for the process.

**Contact**  
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## How can technology help your staff feel safe as businesses return to normality, even beyond June 21st?

As the UK's roadmap successfully meanders towards June 21st, more people are travelling, shops are reopening, and many offices are beginning to come back to life. However, the need for social distancing and the wearing of face masks remains in place, and may continue to do so for some considerable time even beyond June 21st.

The risk of contracting and/or spreading COVID remains very real, especially among younger adults, most of whom won't receive their first vaccination dose until the end of July 2021, so the need to build confidence in customers, staff and the travelling public remains as vital as ever.

Clearway, based in Dartford, Kent, offers a proven and highly successful Body Temperature Detection Camera solution which has been installed at hundreds of locations across the UK, from transport hubs to ambulance stations to food factories and shopping centres.

These discreet thermal cameras detect elevated body temperature which may



indicate the presence of a fever. With technology offering accuracy of down to ±0.3°, it can take such a camera less than a second to detect someone's temperature, thus allowing large numbers of people to be screened at the same time whilst on the move, such as moving through a turnstile or entry gate/doors.

As people pass a body temperature detection camera an alarm will immediately sound to alert security staff when a person with an elevated body temperature is detected. This enables their admission to a building or site to be temporarily prevented until their temperature can be checked manually with a non-contact, hand-held thermometer.

Quick and easy to install in the majority of cases, these camera systems are one of the simplest and most effective ways for employers, H&S and facilities managers to reassure staff, visitors and the public, in these still-uncertain times, that their workplace, travel or retail destination is being protected as far as is possible.

Hospitality and leisure sectors will also benefit greatly from these systems once they're able to allow customers to enjoy their facilities inside again.

More details of the body temperature detection systems can be found at [www.clearway.co.uk/bodytemp](http://www.clearway.co.uk/bodytemp)

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# One Hundred Years of Engineering Excellence

## A History Built on Engineering Expertise

At Kingston Engineering, we have been providing engineering excellence to our customers since 1919. Today, as one of the UK's leading manufacturers and producers of specialist power screws, we continue to build on a strong foundation of skill, innovation and expertise.

Backed by a focus on continued investment over the years, our global presence as precision engineering specialists is testament to how Kingston Engineering has evolved over the decades, from when we first started out, back in 1919.



### The Early Years

At a time when the nation was recovering from the aftermath of the first World War, our business was starting out in Hull. We first began trading as Hull Motor

Transport and Engineering Co in 1919, providing car and commercial vehicle repairs to the motor trade. In those early years, when we were based at our original site on Dansom Lane in Hull, our business provided cylinder grinding and manufactured pistons.

In 1924, the business changed its name to Kingston Engineering Co. Ltd. As early as 1930, the company first started making screws, which would prove to be a very significant departure for the business.

From 1930 to 1945, marked by the Second World War,



Kingston Engineering was to significantly expand and develop its manufacturing facilities. During this time the company was also manufacturing components for aircraft undercarriages and most notably for the Stirling Bomber.

### The Post War Years

The years following on from the end of World War Two, marked a time when Kingston Engineering was rapidly becoming more specialist in screw manufacture. Now based on a significantly bigger site close by in Pennington Street, further developments during this next period saw the installation of more modern machinery and an increase in skill levels.

Kingston Engineering also had at this time, a growing reputation for manufacturing machinery and not just for the home market. A growing export market saw the company export to Australia and South Africa.

### Milestones From The 60's through to the 80's

For Kingston Engineering, this period was marked by significant investment in the factory and particularly in modern machinery. Well-equipped workshops ensured that the company had extensive facilities for turning, milling, grinding, shaping and welding.



These facilities were now all accommodated within a significantly expanded Kingston Engineering factory premises. This period marked a significant milestone for Kingston Engineering in that they were now manufacturing specialist power screw products for increasingly advanced markets brought about by major technological developments.

### The Digital Era And The Decades To Follow

With an increasingly evolving digital landscape, Kingston Engineering's wealth of skill and flexibility, meant that the company was well equipped to respond to these changing and challenging times. The next few decades saw significant technological developments and with it major investment in new machinery and in-house facilities at Kingston Engineering.

### A Present & Future Built On Skill, Innovation And Expertise

As we reach our 100 year milestone at Kingston Engineering, as a privately owned company, we are proud to continue our business where people are very important to us. Our policy is to continually invest in training, our extensive inhouse facilities and also in new technology, as we approach the next chapter in our history. This will enable us to continue to deliver cutting edge precision engineering solutions to our customers.

At Kingston Engineering, our specialised precision engineering services are built on a wealth of experience and a strong heritage spanning 100 years. Our commitment to engineering excellence will continue to mark our years ahead.

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




# KINGSTON ENGINEERING

## Celebrating One Hundred Years Of Engineering Excellence

At Kingston Engineering, we have been providing engineering excellence to our customers since 1919. This year marks a very important celebration for us as we celebrate our Centenary Year, based on our 100 years in business.

Today, as one of the UK's leading manufacturers and producers of specialist power screws, our success through the decades has been built on our focus of continued investment in our people and advanced technology.

As precision engineers, our global presence is testament to how we have evolved over the decades, from when we first started out, back in 1919. Through the years Kingston Engineering has had the ability to respond to the dramatic changes that have been characteristic of each decade.

It is this resilience and flexibility to adapt that has been the cornerstone of our business.

As we approach the next chapter in our history, we will continue to deliver cutting edge precision solutions, with a future built on the foundations of skill, innovation and expertise. This will ensure that Kingston Engineering will continue to deliver cutting edge precision engineering solutions to our valued customers.






# KINGSTON ENGINEERING

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 email: sales@kingston-engineering.co.uk  
 www.kingston-engineering.co.uk





## How BEKO's expertise in compressed air can safeguard a supplier's contract

Although compressed air plays a key role in food and beverage production, its impact on food safety is often underestimated. The tough regulatory requirements to ensure health and hygiene standards in food processing and production are one key consideration; the other is the market clout of the major retail chains. They carry out regular audits of their food and beverage suppliers to check compliance with their extremely high standards. In many cases contracts worth millions may be at stake. How sure are you that your compressed air is up to standard?



### Where contamination can occur

Contaminated compressed air in the food chain is one of the ways the safety of a food or beverage may be compromised during production, processing, handling, packaging or transporting. The most common contaminants are dirt, water and oil, though microbiological organisms (e.g. bacteria) may also be a source of contamination in a compressed air system. If compressed air comes into direct contact with the food or beverage, a much higher standard of contaminant control is required. When food retailers send their auditors to check health and hygiene standards at a food site, the quality of the compressed that comes into direct or indirect contact with the products could well be checked. So if an audit is due, it's a good idea to ask the experts from BEKO Technologies to check in advance for compliance, e.g. with the relevant ISO 8573 standard.

### Keeping up to standard

When you ask BEKO to carry out a precautionary check on your compressed air equipment, you can count on expert personnel.

If you're uncertain about the quality of your compressed air, feel free to contact BEKO Technologies. They will send a sales engineer to first check if the overall constellation of your compressed air equipment makes a validation test possible.

For more information visit <https://www.beko-technologies.com/en-gb/gb/>.

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If you have any questions, please contact:

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# ENERGY

Chemical & Equipment Company

## ENERGY RAM PISTON AND DIAPHRAGM PUMPS

Situated in the heart of Nottinghamshire's rural outpost and next-door to the famous Southwell Racecourse is Energy Manor, home of Energy Chemical & Equipment Company; Designers, Manufacturers and Suppliers of Energy Ram and Diaphragm Pumps for the Waste Water and Process Industries. Established since 1984, Energy Pumps excel as the preferred Sewage Pumps for the Waste Water Industries.

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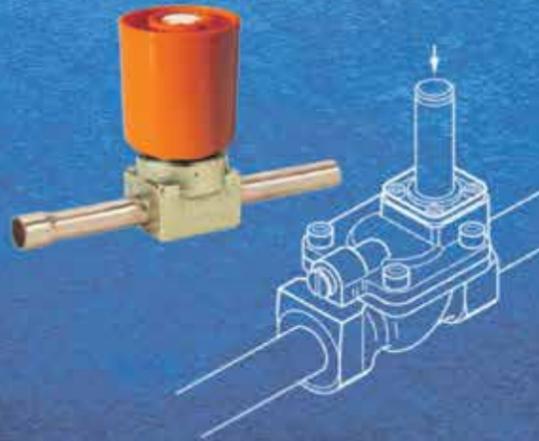


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# TFC Brings It Together

Industrial Process News is proud to announce that TFC has been selected as our Technical Design Solutions Company of the Month.

TFC is a technical design solutions provider who specialise in providing high quality components from leading manufacturing partners enabling their customers to achieve product design breakthroughs.

With decades of experience, TFC leads the way in technical application assistance and supply of high quality Smalley branded Spirolox® Retaining Rings, Snap Rings and Wave Springs for their customers. Smalley Steel Ring Company has over a century of manufacturing expertise and development of edgewound parts with a standard range consisting of 10,000 parts stocked in carbon and stainless steel. TFC offer customised solutions through its bespoke design service, rapid production prototyping, CAD downloads and free product samples.



TFC's global success has enabled them to offer their customers innovative and versatile engineering support and industry certified products of the highest quality to give the utmost confidence in finished product performance.

Another example of TFC's specialist application support is as distributor of ARaymond fast, safe, and reliable connectors for fluid handling systems. Appearing in the majority of the fluid transfer lines in the automotive market, ARaymond Quick Connectors provide solutions adapted to the constraints and requirements of today's industries.

With an unrivalled reputation that has been built upon over the past 60 years, TFC's services and solutions provide support for some of the leading organisations in Europe across many industry groups including: Oil and Gas, Automotive, Aerospace, Medical, Electronics, Off-site Modular Construction and many more. Headquartered in

Heathfield, East Sussex with a network of branches around the UK and a new branch opening in Northern Ireland. TFC has branches in Germany and the Czech Republic.

In addition, TFC also offers Vendor Managed Inventory (VMI), a streamlined supply chain solution that is tailored to individual customer needs. The system helps improve production performance, delivering exactly what the customers need when they need it. This service allows for experienced



on-time production, smarter stockholding to bring about positive cash flow benefits and ongoing logistical expertise, all supported by a specialist team of experts. TFC also helps manufacturers source and stock bulk, custom order produced components which in turn increases efficiency while reducing overheads. TFC recently appointed Chris Billinge as new Business Development Director.

Billinge is an experienced board director in specialist engineering manufacturing and his appointment will bring a greater focus to the Group product portfolio and inventory management services strategy. With exciting plans on the horizon, TFC has gone from strength to strength despite the global pandemic. "During the Covid-19 period we have adapted to new conditions by providing non-contact deliveries to exact internal locations specified by customers." Said Roxanne George, Group Marketing Executive.

The Group will continue to embrace the challenges of new working environments by offering customer video conference calling, hygienic product handling and safe vendor managed inventory (VMI) installations.

If you would like more information on everything TFC offers, head to the website below.

[www.tfc.eu.com](http://www.tfc.eu.com)



## Automotive News



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[PIONEER-CAR.EU/DASHCAM](http://PIONEER-CAR.EU/DASHCAM)

# Watlow®: Powered by Possibility

Industrial Process News is proud to announce that Watlow® has been selected as the recipient of our Thermal Solutions Company of the Year Award.

Founded in 1922 by Louis Desloge Sr., Watlow strives



to be the leading provider of thermal solutions for the world's most demanding applications. Watlow has grown significantly since its inception, in both its product capability and market experience and boasts a global reach to over 1000 patents, with 12 manufacturing facilities and three technology centres in the U.S., Mexico, Europe and Asia.

"Watlow is a global company with almost 100 years of experience solving the toughest thermal challenges. With long design and product life cycles in this market and increasing decentralization of design and manufacturing activities, customers must be confident suppliers can support them now, and in the future, wherever they need it." Stated Johann Lainer, Senior Marketing Communications Specialist.

With over 2,200 team members across the world, Watlow is a global provider of industrial heaters, temperature sensors, temperature and power controllers and supporting software for a range of industries, including semiconductor processing, environmental chambers, energy and environmental technologies, diesel emissions and medical and analytical equipment.

"Our broad experience spans across many applications and allows us to solve challenging thermal problems. We leverage our experience to solve new challenges



and we also have a broad standard product offering to enable rapid prototyping and fast cycles of learning. Johann continued, "We take a systems view versus trying to optimize just one component. Customers come to Watlow because we understand the regulatory environment, they must operate in. For example, when talking to a new customer, we do not ask what type of heater, sensor or controller they are interested in. Instead, we first explore their strategy for dealing with challenges at the device level."

Designing and manufacturing all the components of a thermal system, Watlow partners with its customers to optimize their thermal performance, decrease design time and improve the efficiency of their customer's products and applications. Utilizing its advanced technology, leading companies apply Watlow's thermal systems, which are ideally suited for vital applications such as clean and environmentally friendly energy systems and processes, front-end semiconductor processing and lifesaving medical and clinical equipment.

A recent example of how Watlow supported a leading medical device company was through a global technology summit to share its advanced capabilities and jointly discuss technology roadmaps. This event

happened simultaneously across two locations in Europe, two in the U.S. and one in Asia. Watlow had in-person representation to answer technical questions as well as product demonstrations in all five locations. The company's global footprint and sales channel enable the company to support its customers, wherever they are located.

A couple of noteworthy recent developments for the company, in February, Watlow signed an agreement to sell to Tincum L.P. The transaction with Tincum will preserve Watlow's legacy while accelerating investments to support growth with its global customers including international expansion, key technology advancements driven by Industry 4.0, the addition of strategic products and capabilities through acquisitions and enhancement of operating capabilities and capacity. The agreement was finalized at the beginning of March. Another development for Watlow is the product launch for its energy and environmental technologies business



unit, the launch of its HELIMAX™ heat exchanger with Continuous Helical Flow Technology™.

Johann expanded, "The HELIMAX is an outstanding product that improves heat transfer, reduces carbon emissions and increases uptime as it avoids frequent maintenance intervals because of coking/fouling."

He continued, "We also launched the PM LEGACY™, which is the first 1/32 DIN panel mount controller on the market to incorporate Bluetooth® wireless technology. We have a FLUENT® heater with thermal spray technology, which provides on-demand heating in a small package, the ULTRAMIC® advanced ceramic heater, silicone rubber heaters, etc."



Through the unprecedented circumstances of last year regarding the COVID-19 pandemic, many industries have been adversely affected and faced new challenges adapting to work-from-home, furlough and lockdowns. Like many others, Watlow has also faced challenges during the pandemic and many of its team members are still working remotely.

As for its production staff, Watlow has established the highest safety standards. Despite these challenges, Watlow was able to acquire CRC, Inc. of Santa Clara, CA, USA, which is great support for its semiconductor business. Using this time to evaluate and grow, Watlow also went through some organisational changes and has gained a new strong partnership with Tincum.

Johann expanded on some further developments for Watlow since the COVID-19 pandemic, "Several Watlow products have been used to help during the pandemic. For example, a medical device manufacturer is using our ULTRAMIC advanced ceramic heaters in a product that treats COVID-19 patients. This treatment is proving effective to keep people off mechanical ventilators and helping them recover faster. Watlow had an amazing year and we beat many of our existing sales records. We are proud to say we outperformed our forecast."

In terms of the company's plans, Watlow is determined to continue its great work with existing and potential customers but will also leverage its capabilities in new areas like Industry 4.0. Johann explained, "This is crucial for our journey to an industrial technology company."



The semiconductor industry, medical/clinical/analytical, controllers as well as energy and environmental technologies, including medium voltage and energy storage, are our strategic focus in the future." Indeed, Watlow's commitment to consistent growth and development is a pinnacle focus for the company, and we look forward to seeing what the next 12 months will bring them.

Lastly, we asked Johann about how the company felt upon receiving our award, he told us that, "It is a great honour to be selected as the Company of the Year from Industrial Process News. We appreciate this award and will continue our work in Europe, Asia and the U.S."

For any further information, please see the details below.

watlowleads@watlowleads.com  
www.watlow.com



Johann Lainer, Senior Marketing Communications Specialist

Dawson Shanahan invests over £500k in precision engineering machines to meet demand



Dawson Shanahan, the specialist precision engineering firm, looks set to exceed its investment targets this year to meet increasing demand from the power distribution, e-mobility and medical sectors, which is expected to expand further in 2021.

As part of an ongoing strategy of investing in manufacturing assets for maximum long-term benefit, so far in 2020, Dawson Shanahan has committed over £500,000 on new machinery.

Les Reeves, Joint Managing Director at Dawson Shanahan explains: "Despite the phenomenal challenges this year, continual investment in new machinery is a cornerstone of the Dawson Shanahan philosophy. The new machines will boost our capacity to satisfy the increase in demand from different sectors, ensuring quicker turnaround and deliveries.

For more information visit the company's website at [www.dawson-shanahan.co.uk](http://www.dawson-shanahan.co.uk)

## DDM has changed perceptions of PDM / PLM software



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## New Quantum Cascade Lasers from 10µm to 17µm for Monitoring BTX, CH<sub>3</sub>I and HCN

FLC offers innovative off-the-shelf industrial Quantum Cascade Lasers (QCL) and QCL-based spectrometer modules for Industrial & Defence applications. For the first time, single frequency DFB lasers, based on an InAs-technology, commercially available in the wavelength range from 10-17µm and output power of 5- 10mW.

They open the way for high resolution spectroscopy applications to detect and monitor substances such as the aromatics Benzene (~14.9µm), Toluene (~16µm) and Xylene Propane (~14µm) as well as Methyl Iodide (CH<sub>3</sub>I) (~11.3µm) and Hydrogen Cyanide (HCN) (~15.9µm). Detection and monitoring of these substances

is most important in the Oil & Gas, Chemical and Nuclear Industry. An early detection of the radioactive CH<sub>3</sub>I in a nuclear power plant can reduce the risk of a serious accident, preventing a shut-down of the plant and might save many lives.

Contact <https://frlaserco.com>



## Director of GI systems elected fellow of the IET

Rob Stockham, Director of GI Systems has recently been elected a Fellow of the Institution of Engineering and Technology (IET).

The IET is a global and diverse home for over 168,000 engineering and technology professionals in over 150 countries. Established in 1871 and holding a Royal Charter, promoting Integrity, Excellence and Teamwork thought its members entire career path.

IET Fellowship is the highest award for individuals who have sustained high levels of achievement and is only awarded to engineers that have operated at the forefront of their field and maintained high professional standards over a number of years.

Commenting on the news, Stockham said: "I am very grateful that my application was supported by two well respected IET Fellows, specialists in their own subjects, that I have worked with in the industry over many years, especially in the field of Functional Safety. I am pleased to have received acknowledgement for my



contribution, by my peers at the IET."

GI Systems Ltd provides solutions for data acquisition, condition monitoring and rotating machine measurement telemetry applications, using leading edge design, engineering, performance and delivery to key performance requirements and specifications for a

multitude of industries.

GI Systems extensive experience and knowledge in process instrumentation is complemented with complementary product lines and engineering resources of Gantner Instruments and Manner Sentelemetrie.

GI Systems provides its customers with quality products and systems for technically demanding applications, while meeting quality assurance, testing and technical integrity compliance.

For any further information, please see the details below. [info@gismtt.com](mailto:info@gismtt.com) [www.gismtt.com](http://www.gismtt.com)



## Environmental Science Group Limited (ESG) announces opening of new manufacturing plant in Nigeria

ESG is proud to announce the opening of a new 30,000 square ft. facility in Lagos, Nigeria that includes a production plant, offices, training centre and a laboratory. The new facility trading as Environmental Science Hygiene Limited (ESH, Nigeria) will go into full production during the second quarter of 2021.

ESG based in March, Cambridgeshire announced last year that the company was expanding and restructuring their business to move into the development, manufacture, and distribution of hygiene products.

Its subsidiary company ESH UK has now developed a number of high-quality alcohol-based Liquid, Gel and Foaming hand sanitisers that are safe and effective. The Palm Tree Foaming Hand Sanitiser is unique and different from other current products for the following reasons:

- Vegan friendly.
- The alcohol is naturally sourced.
- Sanitises and moisturises skin.
- The alcohol content is in excess of 60% as recommended by the WHO and the products conform to BS-EN1276 and BS-EN1500.

"We are very pleased to announce the



opening of a new location in Lagos, Nigeria. This is not only an opportunity to bring more jobs to the area, but it allows us to further expand our business and meet the growing needs of the African market" says Mr. Sam Awolesi, CEO of ESG.

Mrs. Olushola Adebawale, Managing Director of ESH Nigeria added "Our new facility allows for the first time in Africa the production of high premium, alcohol based foaming hand sanitisers which have not been possible until now. This is an exciting initiative for Nigeria".

For further information, please contact: **Environmental Science Group Ltd, 3 Station Approach, March, Cambridgeshire PE15 8SJ** T +44 (0)1354 653 222 [sales@envsciencgroup.com](mailto:sales@envsciencgroup.com) [www.envsciencgroup.com](http://www.envsciencgroup.com)

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## Thorite Academy to restart Foundation in Pneumatics training courses

With the phased easing of the current lockdown restrictions, together with the opening of their brand-new academy training headquarters, Thorite has announced the restart of their Foundation in Pneumatics Academy Training Courses, commencing in late June 2021. The dates for this years' 2-day Foundation in Pneumatics courses are:

- Tuesday 29 & Wednesday 30 June 2021
- Tuesday 14 & Wednesday 15 September 2021
- Tuesday 16 & Wednesday 17 November 2021

Thorite Academy's Foundation in Pneumatics training course is designed as a general introduction to pneumatics and aims to familiarise delegates with the design, construction, and operation of pneumatic components. This includes the interpretation of circuit drawings and symbols along with the construction of control systems.

A complete overview is provided, covering compressors, storage, dryers, and distribution as well as the design, construction, and operation of actuators, valves, and air-line equipment. The relevant ISO symbols are introduced and included in the circuit diagrams.

On completion of the course, participants will be able to:

- Recognise the construction and application of actuators, valves, filters, regulators, lubricators, and associated pneumatic products.
- Understand the units and measurements associated with compressed air systems.
- Recognise pneumatic symbols drawn to the relevant standards (ISO 1219).
- Design and assemble simple applications.
- Tackle faulty circuits with confidence.

Thorite is confident that these course dates will stand but as strict UK COVID-19 guidelines exist, if for any reason, government guidance changes, Thorite will either transfer your booking to the next available course or failing that, offer a full money-back guarantee, should you need to cancel your booking.

More information on Thorite Academy's course availability can be gained by emailing [training@thorite.co.uk](mailto:training@thorite.co.uk), or telephoning 01274 657025.



## MAK CHEM & LUBES join A&S International Ltd

A&S International was excited to start the second quarter with not one but two excellent new additions to its growing stable of quality brands. MAK CHEM's maintenance chemicals have been acquired along with the MAK LUBES range of maintenance lubricants.



A&S International will offer both product lines to their global distributor network & developing UK direct client base with immediate effect. Sales of these new quality maintenance chemicals & lubricants steadily grew during the second half of 2020 despite the limiting business conditions created by the COVID-19 pandemic.

Particular success has already been enjoyed by the MAK CHEM brand in Greece, Philippines & Portugal. The majority of the products can be easily & effectively demonstrated to clients; however, due to the current inability to visit industrial sites in many countries, a range of demonstration videos have been produced for inclusion on the corporate websites & social media.

"It is fantastic to start 2021 with the great news that the MAK CHEM & LUBES International brands are now part of our growing range of products. We have ambitious plans to develop the global sales of these high-performance maintenance chemicals & lubricants via our team of loyal distributors, direct clients here in the UK as well as a new network of distributors. Our team is pleased to see the high level of interest from around the world despite the continuing challenges of doing business in a pandemic." Commented Angus Macdonald, Co-Founder & Director of A&S International Ltd.

Companies that are interested in the profitable business opportunity of marketing & selling the MAK CHEM & MAK LUBES product lines in their territories should contact the A&S International team via the website. New distributor partners will be warmly welcomed & assisted with product training and prompt technical support:

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## Essentra Components

Essentra Components has announced a major new investment programme to upgrade its hydraulic injection mounding machines to electric machines by the end of 2031.

The company has engaged with a small number of key electric machine suppliers with a widespread global network to replace all 180 machines older than 15 years (and heading towards their end of working live cycle). The new machine portfolio will comprise of both fully electric and hybrid electric machines.

Essentra estimates that the transition will result in a 33% reduction in energy consumption, cycle to cycle, along with a 25% uplift in cycle time gain, tool-to-tool. The upgrade is predicted to allow three electric machines to do the work of four hydraulic machines enabling Essentra to reduce its footprint as well as improve its repeatability and in turn, its quality.

Essentra trialled its first electric machine more than a decade ago, but newer technologies and focus on sustainability mean that the original vision is now a priority.



Chris Butler, Global Process Development Manager, says there are clear customer advantages: "Although electric machines demand a substantial initial capital outlay, these costs are more than balanced by the increased capacity and reduced energy costs which makes for exciting news for both our business and customers alike."

Contact **T 08457 585070**  
[sales@essentracomponents.co.uk](mailto:sales@essentracomponents.co.uk)  
[www.essentracomponents.com](http://www.essentracomponents.com)

## JAI introduces the Go-X Series of small industrial cameras

JAI has introduced the Go-X Series, a new line of small industrial cameras providing extra reliability features, stringent dust screening, a starting price of €289, and a six-year warranty, the longest offered by any camera manufacturer.



The Go-X Series encompasses a total of 24 different models with a range of resolutions including 2.3, 3.2, 5.0, 8.9, and 12.4 megapixels. Interface options include GigE Vision or USB3 Vision.

For the image sensors, JAI has selected some of the most popular Sony Pregius CMOS global shutter sensors including monochrome and Bayer colour versions at each resolution. For the 3.2 and 5.0-megapixel USB3 Vision models, the Go-X Series lets users choose between the slower versions of the Pregius sensors – IMX265 and IMX264, respectively – or the faster versions – IMX252 and IMX250 – to achieve higher frame rates of up to 74fps for 5-megapixel resolution or 119fps for 3.2-megapixel resolution.

With small industrial cameras being utilised more and more in vision systems monitoring critical factory or warehousing operations, JAI has put extra emphasis on the reliability aspects of the Go-X Series. The cameras feature high shock and vibration ratings of 80G and 10G, respectively, and are designed to optimally dissipate heat to avoid breakdowns in typical industrial environments and under non-stop operating conditions.

[camerasales.emea@jai.com](mailto:camerasales.emea@jai.com)  
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## Water jetting leader champions young talent

The youngest ever member of the Water Jetting Association is championing the promotion of his industry to talented young engineers and technicians.

Ross McDonald, aged 28, became a member of the Ruling Council of the Water Jetting Association (WJA) in 2018. He has also been a member of its Technical Committee since 2016.

The WJA, the member organisation for the water jetting industry, has just marked the 40th anniversary of its foundation in October 1980.

Ross McDonald, Operations Director at water jetting contractor Hydroblast, in Northallerton, North Yorkshire, now wants to showcase the industry to bright and talented young engineers and technicians.

The WJA represents water jetting contractors, equipment manufacturers, hire specialists and training providers. It is the UK's largest provider of water jetting training, accredited by City & Guilds.

Industrial sectors water jetting is used in include: construction and structural maintenance; oil, gas and



petrochemicals; marine maintenance; drainage and water utilities; manufacturing; and energy generation.

Hydroblast delivers a full range of water jetting services, including pipe and tank cleaning, surface preparation, refractory removal, material cutting and hydrodemolition. It also provides water jetting training and consultancy.

For more information about the Water Jetting Association, visit: [www.waterjetting.org.uk](http://www.waterjetting.org.uk)

## MTM Products – the industrial label and nameplate specialists

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MTM Products continuously invest in both people and equipment and have world class facilities for the manufacture of custom labels and nameplates. This enables us to offer high quality, reliable lead times and great customer service, at competitive prices. We have a culture of continuous improvement which ensures we maintain our position as one of the UK's leading label and nameplate manufacturers.

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## Upturn in Demand for High Performance Mini Turbine Flowmeters

Titan Enterprises, a leading manufacturer and supplier of affordable, precision liquid flow measurement devices for a wide range of applications, reports an upturn in sales within its low flow mini turbine flowmeter range.

Small turbine flow meters are adaptable liquid flow devices that Titan has successfully employed in batching processes and dispensing applications particularly within the food and beverage, chemical and laboratory sectors.

Turbine flow meters offer the high level of repeatability and dependability required for accurate batch delivery systems. Titan Enterprises maintains certification under NSF169 for their 800 Series turbine flowmeters and



beverage dispensing flowmeters, as 'equipment for food and drinks products'.

Incorporating only non-metallic wetted components and delivering reliable, high performance over 6 flow ranges, from 0.05 to 15 L/min, these flowmeters are ideally suited for Brentingby Gin's application where

both food hygiene and precision flow measurement are required. The bearings within the Titan mini turbine flow sensors are made of sapphire for long life and reliability. The body is moulded from inert PVDF to ensure there is no contamination to any liquid passing through it.

Based upon a unique Pelton wheel design, Titan's 800-series and beverage dispensing flow meters are inherently reliable and proven in tens of thousands of installations around the world.

For further information on Titan's full range of turbine flowmeters please visit [www.flowmeters.co.uk/turbine-flowmeters-overview](http://www.flowmeters.co.uk/turbine-flowmeters-overview) or contact Titan Enterprises on +44 (0)1935 812790 or [sales@flowmeters.co.uk](mailto:sales@flowmeters.co.uk).

## Holmach launches new system for rapid cooking

Thermal process solutions provider, Holmach is launching a new range of cooking systems powered by OAL's Steam Infusion Vaction technology. Aply named the Perficooker, the machines range in size from 300-3000 litre cookers and can incorporate evaporation, homogenising and an optional jacket system that will allow in-vessel cooling, should temperatures need to be quickly reduced for gelling or crystallisation.

Steam Infusion is a direct contact heating process whereby steam condenses on the surface of a liquid, gently yet rapidly cooking a range of food and beverages up to a temperature of 140°C (284°F). The patented Steam Infusion Vaction™ Pump rapidly heats, mixes and pumps food ingredients and products.

By varying the steam pressure and flow rate through the pump, the



processing conditions change, from gentle cooking to intense mixing and pumping with a homogenising effect. The Steam Infusion Vaction™ Pump (In-Tank and In-Line) is an advanced food processing device that can heat 1,000kg (2,204lb) of product from 15°C (59°F) to 90°C (194°F) in under 10 minutes with no burn-on or particulate damage.

In partnership with Perfinox, who have recently completed a major expansion to their factory near Porto as well as a full testing and tolling facility alongside, the vessels are built

in-house and can be shaped to fit in with existing installations. Perfinox will be showing a range of the machines at the FOODEX'21 show in Birmingham next April.

Competitively priced though using premium components, heating times for products such as meat ragu, soups, sauces and preserves can be significantly reduced. The reduced cooking times maintain flavour and texture better than traditional hemispherical cooking technology and are designed to both CE and anticipated UKCA standards.

In addition, the cookers can be paired with scraped surface heat exchangers for further product treatment or linked to vacuum coolers or inline pouch chillers if hot fill is used.

T 01780 749097  
[www.holmach.co.uk](http://www.holmach.co.uk)

## MW Polymers bring new innovations to new markets

MW Polymers have taken a step in a new direction with new cost saving repair innovations that will help gas and water companies extend the life of ageing pipeline infrastructure.

As a leading supplier of sealants to the UK and global gas industry for over 40 years, the company now manufacture an anti-corrosion sleeve kit to repair corroding gas pipework on multi occupancy buildings. This cost-effective alternative to pipe replacement is easily fitted and can be installed as a live repair.

Another new product for the gas industry has been added to the MW Polymers product portfolio this month too. The Through-the-Face application kit used in conjunction with injectable Ecoseal sealant repairs lead yarn joints up to 48" diameter for a quick, even seal.

With the OFGEM regulatory framework RIIO in place to develop sustainable energy networks, these new innovations not only save on repair time but also reduce labour costs to



enable gas companies to provide a reliable service and bring value for money to the customer without any disruption to their gas supply.

And it doesn't stop there as the company uses its gas industry expertise to bring a new innovation to water companies. Using state-of-

the-art 3D print technology, it has designed a repair technique to deal with leaking misaligned pipes caused by ground movement.

The innovation is in development with two UK water utilities and has also gained interest from water companies in Australia where climate change is having a real impact on the need to invest in infrastructure to ensure

they remain fully operational and cut water wastage through a sustainable pipeline network.

With more new products coming soon MW Polymers see 2021 as an exciting time in the company history.

For more information on these products contact MW Polymers  
01332 835 001



# Photochemical Etching: Three reasons to trust it for your next metal component prototype

**M**ost design engineers trust “traditional” sheet metal machining processes. However, for many industries such as automotive, aerospace, electronics and healthcare, challenges can arise during the machining of complex precision components.

Laser cutting and stamping are two of the most common ways to shape and cut detailed design features, but while dependable, they can also create problems during the process.

There is a solution: photochemical etching, a metal machining process which uses chemical etchants to create complex and highly accurate precision components. While it's easy to define, it's important to know the main reasons for choosing photochemical etching in the production process.

## 1. Low Barrier to Entry

Photochemical etching offers you the chance to prototype from the widest range of materials, including those deemed difficult to work with, with little to no set up costs.

Conventional machining, laser cutting and stamping can face various issues when machining certain metals. With the parameters and limitations of metals like aluminium, titanium and Inconel, it is not always possible to create truly precision-engineered components.

Photochemical etching, by comparison, presents a more economical and efficient way to produce custom parts with complex designs and strict tolerances. This is possible by combining sheet metal with a CAD printed photoresist mask of the required components, with the chemical etching offering a less intrusive and more delicate

process for creating quality, intricate components. The value of photochemical etching is truly found through the inexpensive and easily reworked photo-tools that ensure high accuracy and repeatability in production, perfect for providing OEMs with the critical components they need in short lead times for a great price.

## 2. Improved Cut Quality

Precision etched components are vital elements of many applications and even the slightest blemish can create significant disparities in the quality of the final product. Traditional processing methods such as laser cutting and stamping can cause those issues.

Thermal and cutting edge stresses are familiar factors which affect the quality of the components produced. Thermal stress results from heat generated during the metalworking process, this can not only cause metal to expand and contract but under extreme heat it can also alter the properties of



the materials used. This is very important to be aware of in components where even the slightest imperfections can affect their quality and effectiveness.

Cutting edge stress is a result of stamping, it causes a physical stretch on the cutting edge which can have a detrimental effect on the flatness of the blank, especially when high levels of precision are required.

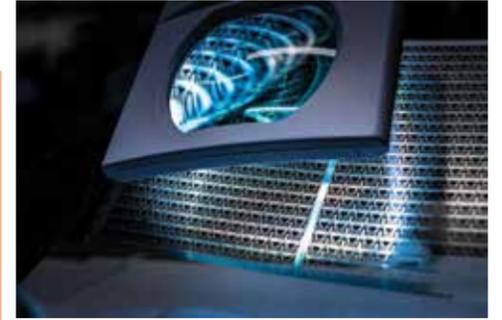
Another common issue is burring, which is caused by heat generation of physical impact that compromises the accuracy and dimensions of the most precise engineered components. Burring is so common and widely accepted that post-machining methods such as finishing and barrelling are part of the production process to minimise the presence of burring.

Photochemical etching eliminates potential stress as there's no heat or physical impact on the etching process. Similarly, with no impact force or harsh cutting, there are no burred edges. Only by using photochemical etching you can eliminate the uncertainty and guarantee quality and repeatability across all your components.

## 3. Reduced Lead Times

Uncertainty can hugely affect supply chains. In manufacturing, that instability is caused by uncertain lead times. As we've already discussed, burring and stresses cause issues with production meaning more processes are required to deliver a quality final product.

Issues on the product line create a domino effect as this leads to increased inventory and tooling costs while delivering an inconsistent service to customers.



Photochemical etching can simplify this process as it eliminates stress and burring, allowing for products to be delivered to an exceptional standard in just a few days – rather than weeks or months. It also reduces tooling costs, as the need to correct the issues caused by traditional methods is eliminated, providing certainty right down your supply chain.

While chemical etching provides simplicity, the process also allows even the most complex of parts to be created, opening up more avenues for you and your clients.

It's clear that photochemical etching should be the method of choice for metal machining. With reduced lead times, fewer costs and the ability to precisely cut even the most difficult metals in larger quantities, it's time to implement alternative methods to produce components of the highest quality.

**To discover more benefits of photochemical etching, download Precision Micro's whitepaper by visiting [www.precisionmicro.com](http://www.precisionmicro.com).**

## Maintenance & Engineering News

# Coupling up for success

**D**rive couplings are precision components that come in many guises. David Proud, general manager of Reich Drive Systems UK, provides guidance on how to specify the correct unit for the application.

Although an essential and integral part of drive trains, couplings are sometimes mistaken for a commodity product, or just something to connect the prime mover to the driven unit. In reality, drive couplings are high specification components, designed and manufactured to give reliable and safe operation in even the most demanding applications and environments.



Drive couplings are a key component in many different industry segments including power generation, automotive, marine and a broad range of industrial applications. With such a diverse range of industries, there is an equally diverse number of different coupling types to choose from. These are generally categorised as highly flexible, torsionally flexible or torsionally rigid variants.

Different industry sectors may require couplings with particular characteristics. For example in power generation, designers can select from a wide range of Reich coupling types including highly flexible rubber



couplings, highly flexible and torsionally soft couplings, torsionally flexible flange couplings and torsionally elastic claw couplings.

Other applications may require torsionally rigid coupling types, such as Reich Kupplungen's FlexDur FD-C-coupling. These are flexible compensating couplings of an all-metallic design and which transmit the torque in a torsionally rigid and backlash-free manner.

Drive couplings vary greatly in their design and capabilities, so engineers must specify the drive coupling correctly to be sure of reliable, efficient, and in the more challenging applications, safe operation. A detailed review of what the coupling will be subjected to in use is an essential starting point.

Factors such as torque transmission, speed ranges, running start/stops and potential shock loadings are just some of the key elements in the selection of the coupling. However, you must also consider alignment between the various components, the environmental operating conditions and any additional maintenance requirements or restrictions.

There may also be potential limitations on available space, size or weight which will have to be taken into account. The prime mover, electric or hydraulic motor or diesel or gas engine, will also be influential in the specification and selection of the drive coupling.

Choosing a coupling that not only meets all the technical and application requirements but is either maintenance-free or could have parts replaced in situ will bring significant benefits to uptime and efficiency.

Reich Kupplungen has expertise in the design and manufacture of drive couplings for use across a wide range of industries and applications. The company embraces a D2C (design to customer) principle, which allows the creation of customised high-quality and long-lasting power transmission products in collaboration with the customer and their specific requirements.

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# Experience and expertise in 3D technology

**Industrial Process News is delighted to award Solid Ground Curing with our 3D Technology Company of the Year Award.**

Established in 2018, Solid Ground Curing was cultivated by Liron Noy who has over 20 years' experience in the RP market. Liron spent 13 years working in the jewellery and wax patterns applications, before deciding to team up with 3D Systems and promote its latest developments of wax printers.



"The ProJet 2500W offers the best of both worlds. Previously, the RP machines that offered a decent quality wax pattern were awfully slow and temperamental while the resin-based printer offered speed but poor accuracy and casting results," explained Liron. "Customers who have bought the ProJet 2500W benefitted by seeing a massive jump in their throughput capacity of patterns that are 100% wax and very easy to cast. These patterns can seamlessly integrate in any casting house or foundry workflow."

Based in Welwyn, Hertfordshire, Solid Ground Curing has an office, showroom and a workshop which allows the company to run the machines on site for benchmark productions and demo purposes. The equipment they promote and sell covers most aspects of Rapid Prototyping and Rapid Manufacturing. The company may be young, but it has much personal experience, built of many years dealing with wax pattern printing and casting application. Liron explains, "We are trying to focus on jewellery casting houses and foundries that require wax patterns as part of their workflow as we have found that this is where our expertise are most resourceful."

Liron also spoke of how Solid Ground Curing manage to stay one step ahead of its competitors by being the only 3D Systems reseller that sells the latest ProJet 2500IC. The 2500IC is based on the profoundly successful ProJet 2500W. "While

the 2500W is a great machine for producing jewellery and small intricate wax parts, the 2500IC is covering the more industrial applications where bigger patterns and higher throughput is required. Both the 2500W and 2500IC can be used for low to mid-volume production of wax patterns, saving time and money while being very easy to use." Liron said.

Currently, Solid Ground Curing's customer base is anyone who needs wax patterns as part of their production or development process. From jewellery casting houses to industrial foundries, pumps, turbocharges manufacturers, jet engines and many more.

If there was ever a time to explore new avenues it's now. Solid Ground Curing is always looking to move with the times and current demands of its industry. As they look to venture into the architecture market with the ProJet 660plus which is capable of building large colourful models. Liron stated, "We have two machines in our workshop, and



we are offering service, support and backup service to our emerging architecture customer base."

Setting itself far above its competitors, Solid Ground Curing offers products to its customers to help accelerate their production while reducing costs.

Both the cost to run the machines and the labour is lessened, by the products offered from Solid Ground Curing being very easy to use with advanced software and interface attributes. Liron mentions,

"Our products usually integrate into their workflow and the adaptive stage is virtually minimal if not seamless. None of our competitors are able to offer a similar product that will match the capacity or the quality of our patterns."



Even though Solid Ground Curing has many a string to its bow, its main activity is selling 3D Systems product's. "We do not see ourselves as a selling organisation but more as an engineering consultancy. The customers' needs always come first and it is vital each customer receives the correct help for their individual needs and applications." Liron continued, "We are offering customers machines to try and help them with their projects to justify the purchase of the equipment and evaluate the return on investment. We also offer a service bureau for

development with new enquiries leading to new opportunities in markets still yet to be explored. Architecture and train modelers on a large scale are two sectors on the horizon. Looking to find solutions to existing and new customers problems, it is evident to Liron that some need larger models and some need special materials for new applications. In addition, a further development, Solid Ground Curing is also moving into ceramic printing solutions, large scale architectural models and medical devices.



The future looks ever so bright for Solid Ground Curing as it looks to extend its customer base by using new technologies such as large-scale wax printing, ceramic printing and bringing to the market new plastic production grade materials. Bringing the term 'rapid manufacturing' to a new level.

Its vast array of services provided means Solid Ground Curing can provide quick and relatively inexpensive rapid manufacturing solutions from plastic models to production grade materials. Whether it be a one-off model or a low volume production, there is a wide range of machinery and materials to address the challenge. Its customer service is outstanding, offering a fast response rate and backup service. Liron proudly states, "If a machine is down or the customer just needs a short-term extra capacity, we are always there on standby."

Solid Ground Curing is on course for its target, to be the market leader for lost wax and investment casting applications along with mould making, in the very near future. Liron told us that, "There are many companies out there that would benefit from being able to produce wax patterns in-house or be able to print in-house the finished product. Our goal is to get to these companies and show them the benefits of our products along with working closely with 3D Systems to develop future products."

For any more information, please see the details below.

**T +44 (0)1438 487197**  
**mail@sgc3d.com**  
**www.solidgroundcuring.com**

prospects who are early in the consideration stage to expose them to the capabilities of the technologies and reassure them that they will see the return on their investment very quickly."

After much success in 2019, Solid Ground Curing unfortunately experienced some challenges due to COVID-19 in early 2020. "The first few months of lockdown were quiet, but it picked up and we managed to catch up very quickly by September/October 2020", stated Liron.

Although sales dropped slightly at the beginning, towards the latter half of 2020, Solid Ground Curing ended up making the same revenue as its previously very successful financial year in 2019.

Moving forward, Solid Ground Curing has contributed towards the progression of COVID-19 testing by becoming heavily involved in the development and manufacturing of many COVID-19 testing devices. "Towards the end of 2020, we were able to help customers who had contracts with the NHS and supply their orders. This was very rewarding," said Liron.

Furthermore, Solid Ground Curing seek future



# How to cut costs, increase efficiency and reduce CO<sub>2</sub> emissions



**A|2|O Technology Group is on a mission to remove the barriers to the adoption of advanced composite materials in volume applications, helping companies to reduce CO<sub>2</sub> emissions and increase composites component manufacturing efficiency. Subsequently, after years of exciting development, A|2|O Technology Group is inviting customers to get in touch and discover how it can help develop systems tailored to their needs.**

The company's founder, Chris Berg, identified opportunities in the composite industry, after noticing several barriers that deterred companies from adopting this technology. For many, costs are too high, and the reliability of composite components are too low compared with those made from legacy materials, such as metal.

To combat this, A|2|O Technology Group is now offering affordable and sustainable composite component manufacturing and reliability products. "Our technologies can help make things more cost-effective, and we can simulate the process and the costs of manufacture before putting systems in place," explained Chris. "We work with the customer, rather than just offering them a single solution that can't be adapted. We are customer-centric to ensure we are developing products that suit their needs, looking at the whole product cycle from concept, to manufacture, through to service life."

Chris has been developing A|2|O Technology Group full time since 2016, and now the hard work is paying off. "We've been awarded funding from the Liverpool City Region Future Innovation Fund, and we've been identified as a high growth potential

business on the LCR TechClimbers 2021 Ones to Watch list". "We've spent a lot of time developing our technology, identifying the need in the market, and staying in touch with this need. These recent awards show that we have done the right thing, and we're now looking at demonstrations throughout this year and developing contracts to continue growing the business. We welcome anyone to get in touch if they would like to develop composite component technology to suit their product developments."

### A|2|O's Advanced Composite Components Overview

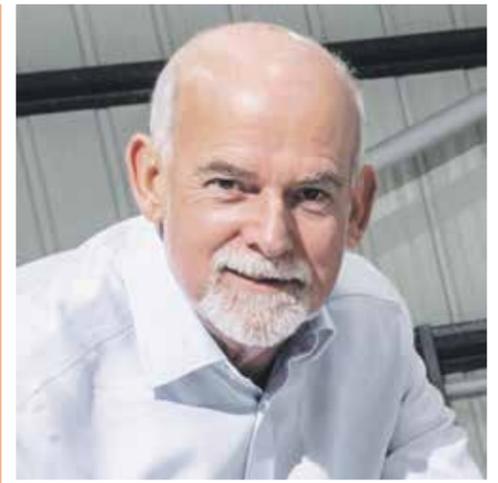


Of course, for a company as innovative as A|2|O Technology Group, the development never stops, and the company is still working on enhancing its products. However, during 2021 it will be able to supply its CHASM System to customers for benefit trials. This is in addition to launching some manufacturing demonstrations into its adoption base.

CHASM offers on-board and fully active structural and condition health monitoring for predictive maintenance, increasing the safety of high reliability and safety critical systems such as Transportation Assets and Renewable Energy Systems.

It indicates and tracks changes and indicates degradation before it becomes critical, reducing the need for lengthy and costly preventative maintenance solutions that are currently used.

As well as developing its products, A|2|O Technology Group is working on developing the company brand and website to emphasise the commercial focus of its offerings. "Our registered company name is Acorn2Oak Innovation Solutions, but we realised that



this was quite wordy and made people think that we are purely consultancy based, whereas in reality we're predominantly a manufacturer and system supplier. So, we now trade as A|2|O Technology Group with four key divisions: A|2|O Innovation, A|2|O Licensing, A|2|O Manufacturing, and A|2|O Predictive Maintenance. This rebrand will soon become clear on our website."

This is in addition to its plans for geographical growth. A|2|O Technology Group is very much focussed on growing its business within the local Liverpool City Region economy, however the company is also looking to the rest of the country with connections in the North, the Midlands, and the South. "We've also been out to South Korea and the USA, to support our global ambitions. Everything is coming together nicely and I'm excited to see what happens next as we move into commercial growth."

Get in touch using the details below to find out how A|2|O Technology Group can help you.

**Contact**  
**T +44 (0)1925 751534**  
**enquiries@a2otg.com**  
**www.a2otg.com**

# Avoid Brexit border delays to keep your CHP running smoothly

**Operators of combined heat and power (CHP) engines know just how important the smooth running of their equipment is to the overall success of their business, with owners often spending tens of thousands of pounds each year on maintaining and servicing their engines. Having ready access to critical spare parts such as spark plugs and filters from genuine manufacturers is an essential part of successful CHP operation.**

But with most of the leading CHP component providers based in Europe, getting hold of quality spares at short notice has become more difficult this year, due to a combination of Covid-19 and Brexit.

Here, James Thompson, Managing Director of gas engine support specialist Gen-C, reveals how CHP operators can maintain their engine's performance by buying directly from UK distributors –avoiding



border delays, additional costs and bureaucratic red tape.

### A perfect storm

According to a survey by the Chartered Institute of Procurement & Supply (CIPS), 45% of firms have experienced delays getting goods into the UK from the EU since 1 January 2021, citing new Brexit custom requirements and additional Covid-19 protocols as the main causes of delay. And there are fears that border disruptions will only intensify in the coming months, as the volume of goods being imported into the UK increases. A total of 17% of respondents admitted they were currently importing less than usual due to stockpiling ahead of the Brexit deadline; once this stock has depleted, traffic will increase, and further delays and stock shortages are expected.

This is of vital importance to UK owners and operators of CHPs, who rely heavily on quality components from European manufacturers such as Motortech to keep their engines running smoothly. The new Brexit custom requirements mean that, from 1 January 2021, a UK CHP operator looking to import spares from Germany, for example, must now follow multiple steps.

### Increased red tape

First, they need to fill in an online form and apply to HMRC for an EORI number that starts with GB. Then, they must find out the commodity code and value for the goods they want to import and include this on their import declaration. This will determine the rate of duty and VAT they need to pay and whether they need an import licence.

Next, they must check the labelling, marking and marketing rules before attempting to get their goods through customs. If they've appointed someone to deal with UK customs on their behalf, this representative can make the declaration and get the goods through the UK border. If not, they will have to make an import declaration and get

the goods cleared by UK customs themselves.

If they are VAT registered, they can then apply to claim back any VAT paid on the goods imported, for which they will need an Import VAT Certificate (C79). If they paid the wrong amount of duty or rejected the goods, they will need to claim a refund on import duties or make a claim for rejected imports. Finally, they must keep records of all commercial invoices and any customs paperwork.



### Easing the burden

If this sounds too much like hard work for a box of CHP spark plugs, then there is an alternative. UK distributors are perfectly placed to shoulder the bureaucratic burden on behalf of their customers, buying in bulk and in advance to ensure that a ready supply of quality European components is immediately available to UK CHP operators with no red tape, whenever they need it.

As the exclusive UK distributor for Motortech (a German provider of parts and systems for all popular gas engines), Gen-C can supply a wide range of high-quality components to the UK market. We are also the UK partner of RS Motor, a Spanish-based supplier of spares for leading MWM and Jenbacher engines, and we specialise

in upgrading gas CHP and genset control panels with Motortech air fuel ratio (AFR) expertise underwritten with ComAp technology.

### Next-day delivery

Thanks to a significant investment in stock, our Sheffield warehouse now contains all the key European components that UK CHP operators require, such as spark plugs, filters, HT leads, spark plug gaskets, speed pick-ups, control components, spark view ignition testing units, timing lights, and spark plug cleaning kits.

Purchasing quality European spares from a UK distributor such as Gen-C brings none of the hassle of importing from the EU – no red tape, no border delays (including those caused by your goods being stuck on the same vehicle as items without the correct paperwork), no additional fees, no currency or exchange issues, and no language barrier. Free technical support for every item purchased comes as standard and same-day dispatch is guaranteed for orders placed by noon, ensuring your CHP can continue to run exactly as intended – no matter what's happening at the border.

**To order your CHP spare parts minus the delays, fees and red tape, call 01709 718002 or go to [www.gen-c.co.uk](http://www.gen-c.co.uk)**



## Biojet®: Designed to keep our oceans cleaner

Biojet® packaging has been created to deliver biodegradable transparent tubes, boxes and clampacks.

As people seek better environmental packaging solutions, Bell Packaging is delighted to announce the introduction of this exciting new product which means we can now offer a complete environmental range for new packaging projects in 2021.

Traditionally biodegradable/compostable products are very expensive. In some cases the cost has been two or three times more than virgin products which often makes the packaging cost prohibitive and is therefore not widely used. There have also been concerns expressed about the viability of biodegradable products, questioning what remains after the degradable process has been completed.

Biojet® answers both of these challenges. It is a much lower cost solution and has many exciting environmental credentials.

Traditionally plastic products use crude oil to create polymer which is then converted into plastic which we use to make PET boxes, tubes and clampacks. Our challenge has been to make these designs biodegradable but not affect the performance of the packaging while it is in use.

To make Biojet® we introduce an additive which attracts microbes that uses plastic as their source of food and



energy. These microbes can be found in landfill, the ocean floor, rivers and swamps where bacteria and microbes thrive.

When the microbes meet the plastic, the biodegradation process is accelerated as the plastic is consumed. This process will only happen in the correct environment where microbes exist.

What used to take thousands of years to break down plastic now takes much less time as the microbes consume the entire product. After the process has been completed, the microbes leave behind the same bi-products as decaying organic matter – humus (soil), CO<sub>2</sub> and CH<sub>4</sub>, both of which can be captured to produce clean energy.

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www.bellpackaging.com  
www.faceguards.co.uk

## HALO Open Art Studio brings art experience to your living room

CCL Label, the global supply chain leader of innovative premium packaging, promotional vehicles and comprehensive label solutions, is introducing an update of their connected packaging label and sleeve technology. The 'browser-based' version renders the installation of any extra app on the user's phone unnecessary, making packaging interaction even more user-friendly and efficient.

### Connected Packaging amongst top packaging trends in 2021

Packaging Europe, one of the leading trade magazines for packaging, recently named Connected Packaging a major trend for 2021, "Expect to see further advances in the area of augmented reality".

The new technology powered by CCL's development partner Arilyn (<https://arilyn.com/>) has now been released together with a demo that demonstrates the unlimited creative possibilities for brands to connect with their customers via packaging. CCL is the only global packaging company where Arilyn technology can be licensed to power campaigns with Connected Packaging.

The brand-new demo features a virtual 360-degree tour of a famous Finnish artist studio, Halosenniemi (more information: <https://web.arilyn.com/halosenniemi/>). It is a place on the shore of Tuusula



Visit Finland! Just scan the code with your phone's photo app - there you go

Lake in southern Finland that offered ideas and inspiration to the artist Pekka Halonen in the early 1900s. Halonen is one of the most beloved artists of the Golden Era of Finnish art.

This new, browser-based ('no App needed') version is very easy to use: All the consumer needs to do is to scan the QR on the CCL Label and follow the instructions.

More information regarding Connected Packaging at CCL can be found here: <https://ccllabel.com/portfolios/promotions-connected-packaging/>  
The Video can be watched here: <https://campaign.ccllabel.com/portfolio-items/connectedpackaging/>

## 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.

sales@datamarkuk.com  
www.datamarkuk.com

## Rotech launch new modular conveyors to simplify packaging coding

Rotech Machines, one of the UK's leading manufacturers of coding and marking technology, has launched a new range of high-quality modular conveyor systems, designed specifically for food, pharmaceutical, medical and industrial packaging operations.

The small, modular, interlocking conveyors offer customers greater packing and coding flexibility, allowing users to pack goods and print codes at speed in any location. The all-in-one conveyor systems are particularly beneficial where space is limited, where coding and packing is currently performed in different locations, or where a conventional industrial conveyor is too large.

### Designed for fast, flexible printing onto all packaging types

Each Rotech conveyor is designed for the easy installation of a range of small, high-speed printers anywhere on the line, such as thermal inkjet or large area printers.

Users can rapidly apply codes onto all packaging types including cartons, bottles, flat packaging or direct printing onto outer boxes. Available with either fixed feet or castors, the free-standing modular conveyors will improve packaging efficiency, save space and speed up output.

### Custom-built conveyors for variable speeds and loads

Because Rotech conveyors are built to order, specific drive systems can be fitted to suit speed and load requirements – this is particularly useful for high throughput or industrial goods. Rotech conveyors are available in 500mm



increments, with a standard belt length of 1.5m and a width of 400mm. Each conveyor module can be used independently or interlocked for long applications, and can also be used as individual packing and coding stations.

### Full installation support

Rotech's team of coding and marking specialists will carry out a full assessment of customer



needs prior to build and installation, along with specialist advice on the most suitable and efficient type of printer technology.

For more information about Rotech's new modular conveyors, or their wider range of packaging coding and marking technology, please visit [www.rotechmachines.com](http://www.rotechmachines.com) or call 01707 393700.

## 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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## New Investment and Expansion Plans for Samuel Grant Packaging

Yorkshire's Samuel Grant Packaging is delighted to announce their new expansion plans, which will see them build a new 40,000 sq ft distribution and stockholding warehouse in the Logic Leeds logistics hub.

Neighbouring the Thorne's Farm location of their current headquarters, the 110 acre Logic Leeds is located by Junction 45 of the M1. Samuel Grant Packaging will be joining the likes of Amazon, John Lewis and Premier Farnell, who have also set up significant distribution centres there.

During the pandemic Samuel Grant Packaging have been operating at full capacity, providing complete packaging solutions to the supply

chain throughout the UK. Many packaging materials have been in short supply, largely due to the unprecedented demand in packaging for online deliveries, especially cardboard.

Samuel Grant have the buying power to be able to purchase and store huge amounts of packaging materials on behalf of their customers, so that their clients don't see any downturn in production themselves due to shortages. They have managed to circumnavigate the nationwide packaging supply challenges, and continued to provide an unrivalled service.

Andrew Grant, Joint Managing Director said,

"Packaging stockholding and distribution is now more valuable than ever in the supply chain, with many packaging materials having experienced shortages over the last year. As the North's biggest distributor it's important that we have enough space to continue to grow, and we have every confidence that the demand for our services will see us fill the new warehouse very quickly."

The new warehouse expansion comes in the year that Samuel Grant Packaging celebrate their 130th anniversary and on the back of their investment in the UK's only EUMOS certified pallet stability testing centre.

[www.samuelgrant.co.uk](http://www.samuelgrant.co.uk)



## DataLase launches functional masterbatch additive for plastics integration



DataLase has launched its 'Masterbatch Additive' - a functional additive designed for integration into plastic products and packaging, for laser coding and marking purposes.

DataLase, the global leader in Photonic Printing Solutions, has developed a functional masterbatch additive suitable for a wide range of plastics, including home and personal care, pharmaceutical, medical, electronic, automotive, agricultural and industrial extruded products.

By addressing the challenges faced by production and manufacturing companies with product coding applications, such as printing expiry dates and lot numbers, DataLase Masterbatch Additive has been optimised specifically for extrusion and injection plastic moulding to provide unsurpassed product stability and excellent quality.

Launched as a DataLase VARELase® Pigment Solutions initiative, the additive is integrated directly into the masterbatch in pellet form, to provide consistent high quality, high contrast, permanent black coding. When compared to other coding methods, the masterbatch additive works with standard CO<sub>2</sub> scribing lasers to provide sustainability benefits in production environments by eliminating labels, consumables and waste from the coding and marking process.



With lasers retrofitted to assembly lines, the additive will also deliver a range of efficiency benefits. By having the flexibility to make fast changes to coding and decoration requirements, the coding and marking process can reduce unscheduled downtime, requires minimal preventive maintenance and less frequent fume extraction filter changes. Additionally, as the additive is already integrated into the extruded plastic, manufacturers will be able to enhance brand integrity by providing SKU traceability through permanent coding that is tamper proof, anti-counterfeit and impossible to remove. The additive can also assist in improving packaging design by removing unsightly ablation areas; furthermore, it can be printed anywhere on the packaging with high precision.

Commenting on the launch, DataLase's CTO, Ally Grant, said: "In light of the ongoing pandemic, the importance of supply chain resilience and risk management are more apparent than ever. Key to implementing refinements will be developments in technology and sustainability. Our masterbatch additive initiative ticks all the boxes in providing manufacturing and production environments with

clear efficiency and environmental benefits, thereby assisting them to be prepared for future unexpected risk events and situations."

To find out more visit <https://www.datalase.com/masterbatch-additive/>

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## Introducing DataLase Masterbatch Additive

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- Heat, water, scuff and rub resistant
- Anti-counterfeit and tamper-proof
- Eliminates consumables from production/manufacturing environments
- Improves sustainability, efficiency and enhances brand integrity

**Ideal for:** home & personal care, pharmaceutical, agricultural, electronic and automotive applications

Find out more contact...  
+44 (0) 151 423 9360 | [info@datalase.com](mailto:info@datalase.com) | [DataLase.com](http://DataLase.com)

## Restoring workplace confidence through best practice in cleaning and hygiene

A recent survey, conducted by Harris Interactive on behalf of Kimberly-Clark Professional™, about how Covid-19 has affected perceptions of hygiene and cleanliness in workplaces, has shown that cleaning and hygiene are now the top priorities for premises and facilities managers.



"Six out of seven of the most important factors listed in the survey were cleaning and hygiene related," says Olena Neznal, Vice President, Kimberly-Clark Professional™ EMEA. "The survey also found that 80% of people are now more aware of hygiene practices when outside the home\*."

According to the research, three out of four people (78%) feel there is a moderate to high risk of germs in an office building\*. When asked what are the most important factors they use to gauge the safety in an office building: 69% want strict social distancing policies enforcement\*; 51% of people want masks to be a requirement when entering the office\*; and 70% cited the provision of hygienic hand washing and toilet facilities\*.

The survey looked at various sectors including offices, airports, hotels, education locations, and dine-in restaurants, cafés, pubs and bars, and perceptions about overall levels of cleanliness and hygiene varied considerably. In every sector, washroom hygiene was a cause for concern. When asked 'what are the most important areas to improve hygiene in an office building?', 89% said the washroom is a key area where businesses can do more\*. Demonstrating that a great deal needs to be done to improve facilities, confidence with the levels of cleanliness and hygiene in public washrooms in general was very low, at an alarming 7%\*.

"Businesses can restore workplace confidence through delivering best practice in cleaning and hygiene to ensure that employees and visitors feel safe," says Neznal. "Kimberly-Clark Professional™ is the expert in workplace hygiene, so the research findings have been crucial in guiding our ability to ensure we offer the best advice and solutions."



"Only businesses which win the confidence of their employees and customers will thrive, and from this research it is clear that cleaning and hygiene are now top of the agenda," adds Neznal. "There are no shortcuts to workplace hygiene – we need to cover every angle, and Kimberly-Clark Professional™ is championing the need for cleaning and hygiene to take centre-stage."

### 360° Hygiene & Protection programme

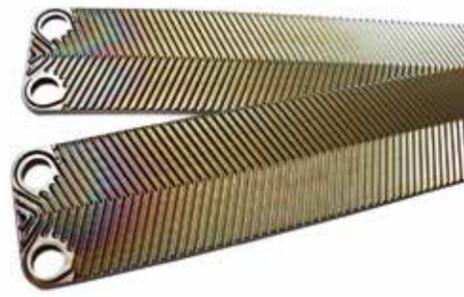
Kimberly-Clark Professional™ has introduced the 360° Hygiene & Protection programme to help businesses get back on their feet and restore confidence. A free no obligation Virtual Hygiene Walk – which reviews a facility and provides expert guidance on cleaning and hygiene protocols, recommending the right product solutions to tackle key hygiene hotspots – can be booked through the microsite [https://home.kcprofessional.com/UK\\_PR\\_TTNS\\_0920](https://home.kcprofessional.com/UK_PR_TTNS_0920). An in-depth guide to office hygiene, showing the most appropriate products and solutions can be seen here: <https://home.kcprofessional.com/uk/officehygiene>.

\* Source: How has COVID-19 affected perceptions of cleanliness and hygiene? Harris Interactive on behalf of Kimberly-Clark; July 2020. UK n=1,097

## Extra corrosion resistance for range of BPHE's

SWEP has launched a new range of brazed plate heat exchangers (BPHE) that keep tap water applications running efficiently for longer. This is achieved with SWEP Sealix coating, an SiO based thin-film technology that increases BPHE corrosion resistance, protects against fouling and scaling, and increases durability.

The protective Sealix layer is applied to all inner surfaces of the heat exchangers and when installed in HIUs and substations, that encounter drinking water, increases the lifetime



and the operational safety of the entire system. This in turn reduces maintenance costs and

unplanned downtime. The innovative self-cleaning coating minimises deposit formation and prevents contamination while protecting the surface.

SiO based coating is recognised worldwide and approved by the United States Food and Drug Administration, the European Food Safety Authority and the Japan Inspection Association of Food and Industry Environment.

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MADE IN BRITAIN

# DispenserONE®: The 'Fit and Forget' sanitizer system

**D**uring a year in which hand hygiene was thrust into the spotlight like never before, SEKO's groundbreaking DispenserONE® sanitizer system – purpose-designed in response to coronavirus – has helped to revolutionize infection control everywhere from factories to theme parks.

This innovative range of dispensers has transformed the way building managers deliver hand hygiene. But disposable and conventional light-duty sanitizer systems have been on the market for decades, so why the need to replace them?

Such systems were adequate in the pre-COVID world, with their basic pump mechanism and low capacity capable of meeting low demand which was limited to hospitals, doctors' surgeries and other healthcare sites.

Then, when COVID-19 arrived and hand hygiene



became essential in every building, these devices were installed as "quick fixes", and despite their limitations were expected to deal with constant, widespread use.

The sight of a disposable tub of sanitizer, usually placed on a countertop or small table at a building entrance, has become common during the pandemic as building operators try to deliver COVID-secure arrangements.

As well as being unhygienic due to their manual operation, pump-action devices are messy, unsightly and unsafe as they leak and leave sanitizer dripping onto the surface and floor where they may create a slip hazard.

The alternative to disposable dispensers the light-duty refillable systems mounted to walls and stands, which also splash and leak due to their primitive pump design and require regular repair and, ultimately, replacement after around six months on average.

For building operators, this results in constant cleaning, refilling, repairing and replacement of dispensers – increasing staff workload and incurring hidden costs.

From these limitations, the DispenserONE® range



was born, as the SEKO R&D team worked to create a series of "fit and forget" systems to provide hassle-free, yet highly-effective infection control in any building.

Built around an ultra-reliable motor-driven pump, DispenserONE® provides a consistently smooth, soft flow of sanitizer and because residual product remains within the mechanism once dosing is completed, the system is completely leak-free.

DispenserONE® is an operator's dream in that it requires zero maintenance during opening hours, with the only requirements being an occasional refill and, in the case of the battery-powered models, recharge.

This means that, once installed, DispenserONE® can be left in service without the need to constantly refill or clean around the unit, its presence offering reassurance not only to the user, but to the building manager who can have complete faith in their hand hygiene arrangements.

The DispenserONE® range covers every building requirement for hand hygiene, ensuring devices are properly sized with a capacity suited to footfall, starting with



DispenserONE® Mini which offers a super-slim, table-height profile and minimal footprint that make it ideal for convenience stores, beauty salons and other sites where space is at a premium. For the largest sites including international airports, conference centre and sports stadia there's the original DispenserONE®, a high-capacity, mains-powered unit delivering up to 25,000 doses between refills and an optional 17" multimedia screen at eye level.

Recognizing the "new normal" of post-COVID building hygiene arrangements, SEKO has also developed DispenserONE® Thermoscan, which allows building managers to control entry depending on combinations of criteria such as sanitizer use, body temperature and face covering. As well as providing peace of mind to the operator over infection control, this model gives building users confidence at a time when many may be anxious about visiting shops and returning to the workplace.

Adding to this the system's IoT-enabled remote connectivity, customizability and optional multimedia screen, DispenserONE® earns its place as the ultimate hand-hygiene product for 2021 and beyond.

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



## New handsfree wash basin

**U**K manufacturer, Pland Stainless has developed a new Push-Pad washbasin designed specifically with a handsfree tap operation. A popular choice in the current climate.

The units are an adaptation of their popular Malta mini hand rinse basin now featuring a Push-Pad front allowing handsfree control of the taps. It's a response to customer requests to minimize the risk of spreading Covid-19. This basin offers an ideal solution where there is not the budget or ease of installation for electronic taps.

Pushing the front of this stainless steel basin, with just a little pressure, deflects

the concealed valve and delivers a 7 second flow of water. The valve offers an instant on, instant off feature, with no gradual flow of water.

There are two sizes available in this new Push-Pad handwash basin. The smaller option has an overall size of 308mm wide x 268mm deep and 165mm high (CWBMIN-P) and the larger is 345mm wide x 385mm deep and 200mm high (CWBMIN2-P).

**These new basins are available from stock in Leeds for a speedy delivery to UK addresses. Call Pland Stainless on tel: 0113 263 4184 to order or ascertain local merchant stock holding.**



## Waterblade: Exceptional low flow handwashing



**W**e have developed and soft released our Waterblade Compact; this has a narrower flow at 100m, just 2.4 Litres/minute, and is designed for smaller basins and sensor taps. We are delighted to have secured our first order from RS components premises in France (we have already 'Waterbladed' two UK sites) where they are rolling it out to over one hundred basins. For the technical spec on our full range, contact: [nigel@bamfordswaterblade.com](mailto:nigel@bamfordswaterblade.com)

It is really easy to try Waterblade out: Email: [nigel@bamfordswaterblade.com](mailto:nigel@bamfordswaterblade.com) your address. We send you a free sample. You fit the sample in minutes, assess and show to decision makers. We support with prompt response to questions and data requests. You place an order which we supply in 5 working days. You fit and start saving water and energy.

Waterblade is WRAS approved and Listed as Best Practice by the Considerate Constructors Scheme.

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

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## The Floorbrite Group

# ESAB's Robust Feed wins Red Dot Award for product design

**ESAB announced that its Robust Feed wire feeder has received the highly coveted Red Dot Award: Product Design 2021. The Robust Feed was designed for portability, durability and productivity and is the only portable feeder with an IP44 protection class rating, which means it is protected against water splashes from all directions.**

A completely-sealed wire feed compartment protects the wire from dust, an optional heater drives off moisture to preserve wire integrity and its double-wall design has special zones to provide impact and abrasion resistance. The controls, power and gas cable connections are protected inside the housing, and a reliable strain relief removes cable stress.

This is the second Red Dot award ESAB has won for product design. The brand won in 2018 for the Renegade TIG power source. This is the second Red Dot award ESAB has won for product design. The brand won in 2018 for the Renegade TIG power source.

"We are proud that our Robust Feed earned the prestigious Red Dot award, a tremendous honor in our longstanding history of leading product innovation in welding and cutting equipment and consumables for over a century," said Olivier Biebuyck, President, EMEAR, Equipment and Digital Solutions.

"A special thanks to Red Dot's expert jury for recognising our continuous pursuit to meet the needs of the customers we serve all over the world."

For more than 50 years, the "Red Dot" award has established itself internationally as one of the most sought-after seals of quality for good design. For this year's competition, designers and manufacturers submitted more than 18,000 objects to the competition and a jury comprising roughly 50 members assessed the products.

The strict judging criteria, which include level of innovation, functionality, formal quality, ergonomics and durability, provide a frame of reference which the jurors then complement with their own expertise.

"I believe Robust Feed won this esteemed award because customer insights and real-life scenarios shaped its form and functions," said Jarkko Havia, ESAB's Global Industrial Design Manager. "We never intended to compete with existing feeders — we wanted to redefine the category, and Robust Feed achieves that goal."

### More Key Elements to Robust Feed's Award-winning Design

ESAB designed Robust Feed for improved ergonomics when carrying. When carried by the middle handle, it rests comfortably against the side of the operator's body when walking longer distances. Closer to the point of welding, additional front and rear handles make it easy to carry up a ladder, maneuver through confined spaces or pass the unit from one person to another.

For greater mobility, the wire feeder has an optional wheel kit that mounts on either the



bottom or side of the feeder. It also features ESAB's new PreciDrive wire drive system that combines high precision, power and reliability to feed solid wires up to 2.0 mm and cored wires up to 2.4 mm.

Robust Feed automatically connects to ESAB's Warrior and Aristo inverter-based power sources, and a connection kit enables using the unit with competitive inverters.

Users include those in the ship, boat, trailer, construction, steel fabrication, pressure vessel, tank, pipe, wind tower, off-highway machinery, maintenance and repair industries. Equipped

with an optional push-pull torch, it also works well for welding aluminium.

The Red Dot Award - Product Design, whose origins date back to 1955, appraises the best products created every year.

According to the motto "In search of good design and innovation", the jury evaluates the entries and only awards a Red Dot to products that win them over with their high design quality.

**Contact**  
[www.esab.com](http://www.esab.com)

## Drives, Controls & Automation News

# Quantum Controls' New Generation Hire Panels



We have an extensive range of hire equipment, including Weatherproof Variable Speed Drives up to 4.5MW power rating.

The all-new design of Altivar Process Modular Hire Panels allows you to choose which features best suit your application such as; variable gland plate options such as quick connect, brush, and plain aluminium, a 3 phase line choke built in for harmonic mitigation and a built in dv/dt filter allowing up to 300m motor cables without any external components.

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So your power requirements can be matched using the same panel design by simply adding the number of modules to obtain your required design power output.

Our hire fleet are available 24/7 through our Quantum Prime service to help keep your site up and running. With just one call to 0330 9000 247,

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**panels, call us on 0330 9000 247 or email us at [rental@quantum-controls.co.uk](mailto:rental@quantum-controls.co.uk) and receive a FREE 75 Page guide to Rental VSDs.**



## Any Time, Any Place, Any Weather

### QUANTUM'S UNIQUE HIRE DRIVE SOLUTION

Round the clock access to 2500+ ABB & Schneider Electric Weatherproof VSD Units up to 4.5MW power rating, ensuring a first time fix for any drive failure.

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# Process safety lifecycle management digitalisation

Operating as a central source of information the software digitalises early Engineering Technology (ET) data to create a process safety digital twin, using this data to then give context to the vast amount of data generated through information technology (IT) and operational technology (OT) systems.

Karl Watson, global digital sales solution architect for process safety, ABB Energy Industries said: "Companies operating in high hazard industries invest significant time and effort developing the basis of safety during the engineering phase of a facility. This critical knowledge is then often left 'on-the-shelf', leaving operation and maintenance teams to 're-invent the wheel' when it comes to understanding the hazards and risks associated with their processes." Taking this unique approach of combining IT and OT data with ET data, SafetyInsight enables valuable engineering data (such as HAZOP and LOPA reports) to be digitalised, and readily accessible by operation and maintenance teams in simplified, intuitive, and easy to understand visual formats.

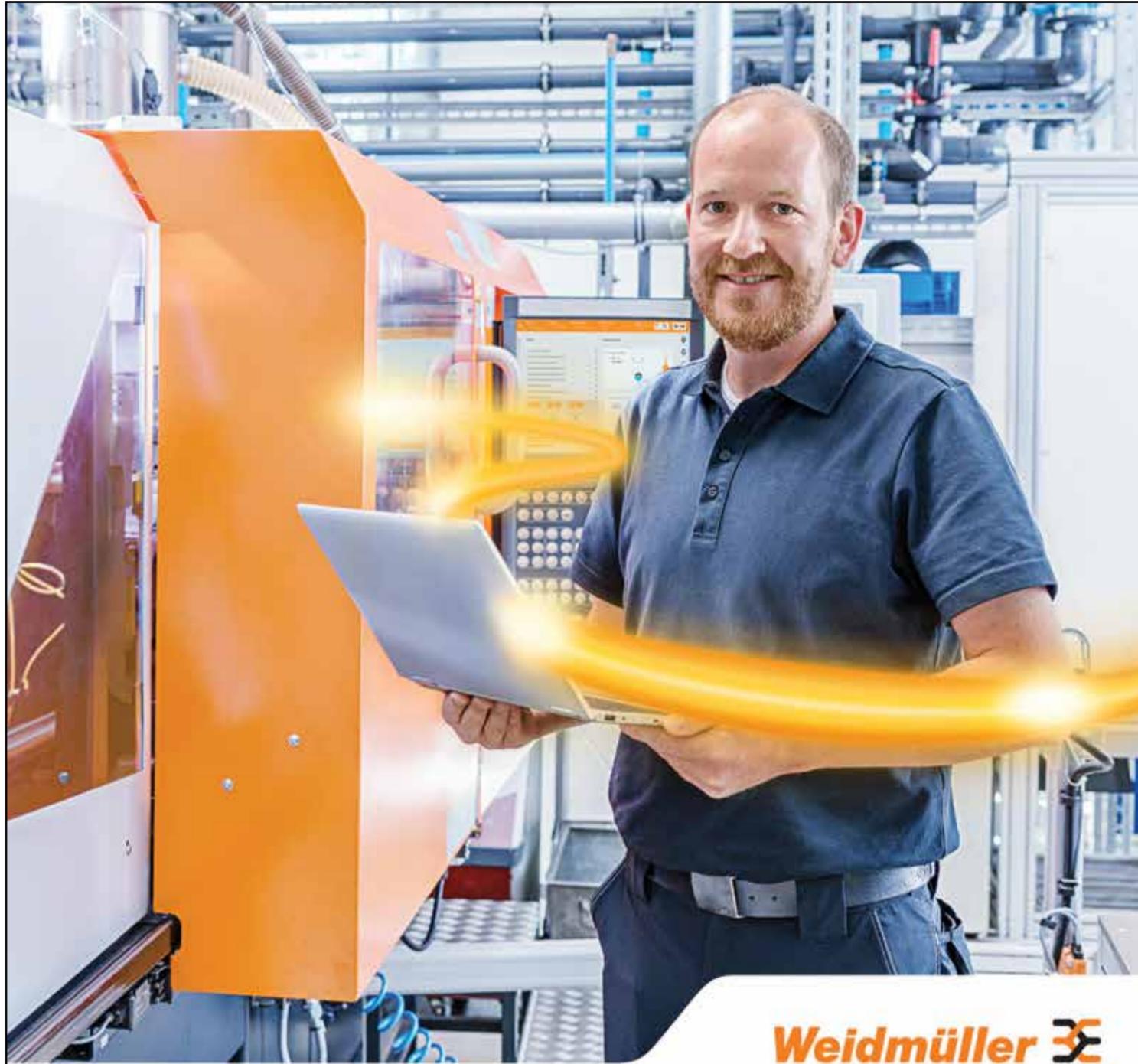
Ongoing risk assessments can then be based on digitalised safety data. The addition of the IT/

OT data provides near real time updates, enabling the accumulative impact of operation and maintenance activities to be visualised on a dynamic risk matrix, to further aid risk assessments and management of operational risk.

Watson continued: "Engineering Technology data, like any digital twin, must be validated. SafetyInsight facilitates this by capturing actual operation and maintenance data in context with the early design assumptions, enabling improvement to be identified and implemented, in other words, 'closing the loop.' In addition to increased safety, these improvements can help minimise production downtime and reduce maintenance costs."

The suite delivers process safety dashboards to provide the right information, to the right person, at the right time, to make the right, informed, decision.

<https://global.abb/group/en>



**Weidmüller**

## The easy way to machine learning Weidmüller Industrial AutoML

### The benefits at a glance

- No data science knowhow required
- Creation of machine learning models within one hour
- Data ownership at any time

[www.weidmuller.co.uk/liot](http://www.weidmuller.co.uk/liot)

## ABB's new cobot GoFa™ wins prestigious Best of the Best Red Dot award



ABB's GoFa cobot was awarded the prestigious Red Dot Best of the Best design award in recognition of its unique design concept to make the new robot appealing and accessible to users.

The global Red Dot Design Awards recognize achievements in product design, with the jury assessing thousands of entries every year. Red Dot's "Best of the Best" award is for groundbreaking design and is the highest award in the competition, reserved for the most aesthetically appealing, functional, smart or innovative design.

GoFa is the fastest cobot in its class and is intended to work side-by-side with humans, without the need for fences, on a wide range of tasks. Advanced safety features, including intelligent sensors in each joint which bring the cobot to a stop in milliseconds if it senses any unexpected contact, allow GoFa to safely operate directly and continuously alongside workers.

The brief for the product designers was to create an intuitive, user-friendly, approachable design to encourage people, and particularly first-time users, to confidently use and interact with GoFa.

GoFa's design is a departure from the look of traditional industrial robots, narrowing the boundaries between industrial and consumer products. It employs slim, straight arms that give the cobot a user-friendly yet strong appearance, while the advanced use of color, material and finish gives GoFa a modern, sleek look. Its simple arm-side interface design with two buttons and light ring echoes the easy-to-use interfaces of consumer products. This makes it accessible even for first-time robot users more accustomed to consumer technology and who may be unfamiliar with industrial machinery.

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

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

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

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.

LABINOX will project manage manufacture and installation of assemblies, ensuring that not only stainless steel equipment but also associated equipment, is procured and scheduled to meet your requirements.

Services include: Draughting, Design, Quotation and Feasibility Studies, Fabrication, Supply And Project Management.

T 01484 600200  
[www.labtex.co.uk](http://www.labtex.co.uk)

**LABINOX**

## Chamois Metrology



Chamois Metrology introduces the new Additel ADT686 Advanced Digital Pressure Gauge which includes a smartphone like touchscreen and graphical interface for a completely new way of interfacing the menus and features.

The ADT686 Advanced Digital Pressure Gauge comes with a built-in barometer and is available in pressure ranges from  $\pm 2.5$  mbar to 4,200 bar and comes standard with Wi-Fi and Bluetooth wireless communications, as well as a

type-C USB port and cable (RS-232 and 4-20mA output communications are optional).

Additel 686 gauges cover, gauge, absolute, differential and compound pressure ranges. Each gauge contains a built-in barometer sensor which allows for the pressure reading to display in gauge pressure or absolute pressure with a simple menu selection. These new gauges can also be configured with an optional data logging capability which allows users to store up to 10,000,000 readings.

Each gauge comes with an ISO-17025 accredited certificate of calibration. It is compatible with Additel's Link mobile app and 9502 Additel/Log II software, which enables the ability to monitor and display the real-time pressure measurements in a table or graphically.

**For a demo in person or virtually get in touch info@chamois.net or 01926 812066**

## LAUDA Technology Ltd

LAUDA – Experts In Thermal Control And Measurement Providing Innovative Solutions For Thermal Process Control, Chilled Water Applications, Water Baths, Freezers, Incubators, Shakers, Stills, Tensiometers, Viscometers And Contact Angle Measurement.

LAUDA, the world market leader in temperature control equipment and systems, is expanding its portfolio with the new LAUDA Versafreeze product line and higher power Integral process circulators to meet the changing demands of our customers. The high-quality, high-reliability Versafreeze ultra-freezers have been optimised for the extreme requirements of deep-freeze storage, thereby meeting the requirements of vaccine producers, pharmaceutical service providers,



vaccination centres and universities for the safe storage of temperature-sensitive coronavirus vaccines and valuable medicines, chemical substances, biological, or food and beverage research samples.

With a temperature range from 0 to  $-85$  °C, LAUDA Versafreeze ultra-freezers provide state-of-the-art refrigeration technology, excellent efficiency characteristics, flexible compartment storage layout, and are already in use across a diverse set of applications from food and beverage ingredient development to biotechnology to pharmaceutical, chemical testing, automotive, and aerospace component testing, and many more.

The higher power Integral process circulators, developed to meet the increasing cooling power demands of the automotive and aerospace industries are capable of providing up to 25kW of cooling power @ 20 Celsius whilst providing a robust and feature-rich, connected solution. Additionally, pressurised variants are also available, extending the usable temperature range of the heat transfer medium.

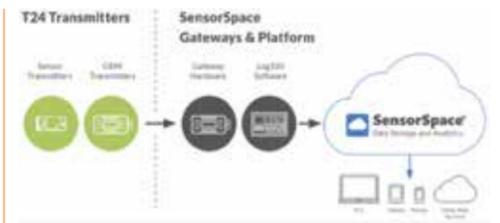
**Contact**  
[www.lauda-technology.co.uk](http://www.lauda-technology.co.uk)

## Sherborne Sensors announces the launch of a Cloud service for WTS Wireless Inclinometer Line

The WTS Wireless Tilt System is a flexible, all-weather radio telemetry system designed to provide high accuracy remote angle measurement data. The WTS gives surveyors, geotechnical specialists, and structural engineers the ability to record and log data remotely without the cost and inefficiency of traditional wired methods.

The heart of the system is the WTS Wireless Inclinometer; a high-accuracy robust instrument utilising advanced MEMS sensor technology to ensure maximum reliability. A variety of complementary base stations and either PC or hand-held data acquisition modules are offered to allow a complete measurement system to be configured to suit any application. A variety of fixed base stations and hand-held readers are available to enable the user to tailor the system to their optimal requirements.

Highway agencies, bridge and civil structure owners spend large revenues assessing structural health by visual or other types of consuming inspection methods of bolted and welded joints, together with other vital structural elements. Obtaining multiple readings to monitoring the entire structure can be costly and labour intensive. Using the WTS Wireless Tilt System, a single structure is fitted with low power WTS Inclinometers at strategic points, thus helping to determine where weak points may be and when maintenance is required.



Additionally, the WTS Wireless Tilt System may be used in the verification of design calculations when new structures are manufactured providing valuable data to refine computer models of structural behaviour.

The new Sherborne SensorSpace solution brings the data into the cloud. Whether your data is needed every day or every few seconds, Sherborne's SensorSpace is optimized to receive, compute, and return millions of data points across the globe. And, with up to 3 years rolling data retention as standard, Sherborne's SensorSpace gives a place to store and mine data for added insights and analytic overlays like anomaly detection and predictive maintenance.

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

## Applied Rigaku Technologies offers on-line, real-time process elemental analysis for liquid stream applications

Applied Rigaku Technologies, Inc., a division of Rigaku Corporation, engineers, manufactures, and distributes Rigaku EDXRF products worldwide. Located in Austin, Texas, USA, the company specializes in benchtop and process EDXRF spectrometers which serve a diverse range of industries, including liquid stream applications.

For real-time process control needs of liquid streams, Rigaku offers the advanced NEX OL multi-element process analyzer. Non-destructively analyze for elements aluminum (Al) to uranium (U), from parts per million (ppm) levels to weight percent (wt%) concentrations.

Designed to span from heavy industrial through to food grade process gauging solutions, the NEX



OL is configurable for use in both classified and non-classified areas. For superior analytical performance and reliability, the EDXRF measuring head assembly comes from the well-established NEX QC+ high-resolution benchtop instrument. This proven technology combined with a 50 kV

X-ray tube, a silicon drift detector (SDD), and a standardized, optimized suite of tube filters — the NEX OL serves a broad range of process control applications.

Among its other key features are an easy-to-use industrial touchscreen user interface and an industry-leading 2-year manufacturer's warranty showing Rigaku's commitment to quality and their dedication to maximizing uptime for their customer's processes and applications.

This product is available in the UK exclusively via SciMed Ltd

**Contact**  
T 0161 442 9963  
[enquiries@scimed.co.uk](mailto:enquiries@scimed.co.uk)  
[www.scimed.co.uk/](http://www.scimed.co.uk/)  
product-category/online-xrf/

## MGAprime Q - Portable Stack Gas Analyser, MCERTS certified to T-CEMS, EN 15267-4:2017, QAL1



The MGAprime Q is a portable Stack Gas Analyser suitable for use with standard reference method and for verifying and calibrating installed CEMS, according to the requirements of the EN 14181. The MGAprime Q covers O<sub>2</sub>, CO, NO<sub>x</sub>, SO<sub>2</sub> as part of its certification plus additional measurements for CH<sub>4</sub>, C<sub>3</sub>H<sub>8</sub>, C<sub>x</sub>H<sub>y</sub> and N<sub>2</sub>O

This measuring system is the world's most compact solution that consists of a complete gas conditioning system with a heated gas sampling probe and line, and the analyser with integrated gas cooler and gas analysis modules.

The analyser can simultaneously measure nine gas

components (O<sub>2</sub>, CO, CO<sub>2</sub>, NO, NO<sub>2</sub>, N<sub>2</sub>O, SO<sub>2</sub>, CH<sub>4</sub>, C<sub>3</sub>H<sub>8</sub>) as well as gas temperature, flow velocity with calculation of flow rate.

The gas components are measured with a paramagnetic sensor and innovative, infrared (NDIR) measurement technology. Measurements of SO<sub>2</sub> and NO<sub>x</sub> meet the requirements of equivalence with the standard reference methods. This eliminates the need to use complex and costly technology such as a chemiluminescence detector with an upstream NO<sub>2</sub> to NO converter.

The analytical technology is based on a drift-free and precise infrared measurement technique, where the cross-interferences of H<sub>2</sub>O and the measured gas components are compensated by software.

The large touch and swipe colour display enables easy, intuitive operation with a variety of graphic options. The measurement data can be transferred via LAN, WLAN, 4-20mA, RS485 and USB stick.

**For additional information please contact**  
T 01327 871044  
[sales@eurotron-uk.com](mailto:sales@eurotron-uk.com)

## Eurotron Instruments (UK) Ltd



Leading Suppliers of Emissions & Calibration Instruments

Contact us today by emailing [sales@eurotron-uk.com](mailto:sales@eurotron-uk.com) or call 01327 871044

[www.ei-uk.com](http://www.ei-uk.com)

## G-Series

Interface is pleased to announce the launch of the G-Series – a new, fully metric line of load cells and load buttons for industrial applications. The demand for Interface products designed and manufactured in the International System of Units (SI), has been evident for several years. Interface's new Global Standard product line, known as the G Series, is designed for an international buyer and user.

Starting small, the series includes three load cell types

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

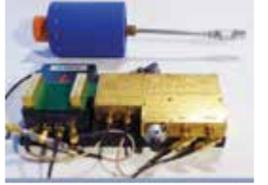
Each sensor is supplied with individual calibration certificates. So, even with their highly competitive price, you can be sure that like all Interface products, the G-Series are built to the exacting standards that Interface are world-renowned for.



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

## Time-Domain NMR Spectrometer for Materials Studies & Process Measurement & Control

Designed by a British company active in the NMR field for decades, this highly compact Mk3 low-field time-domain NMR relaxation spectrometer provides physical information on liquid and solid samples in the lab and in the field, at a size, cost and complexity typically 1/10th to 1/100th of that of typical high field chemical analysis NMR systems.



NMR Relaxation is an extremely useful quantitative technique for process measurement, both in solid and liquid form. It gives information on both the component masses and motion of atoms and molecules in the sample, which lead to qualities which are variously described as mobility, dynamics, stiffness, viscosity or rigidity.

The Graphical User Interface has extensive software for on- and off-line analysis of material and sample data, and built-in modules for process on-line monitoring and control. The signal-to noise is excellent, and digital R.F processing on a Field-Programmable-Gate-Array gives high long-term stability. This spectrometer is robust, and compact enough for use in the field. It has a 3D printed solid metal case, gold flashed, and weighs just under 1kg.

To aid sample analysis and nano-pore-size measurements an optional Peltier thermo-electrically cooled variable-temperature probe is available, that precisely controls temperature from -35C to +80C, with additional gas-assist available down to -80C.

[www.Lab-Tools.com](http://www.Lab-Tools.com) Lab-Tools Ltd. (nanoscience)  
<https://nmrspectrometer.lab-tools.com/>  
+44 (0) 7805 437 241 [nmr@lab-tools.com](mailto:nmr@lab-tools.com)



## New hydrogen sensor improves detection of small leaks



A new gas sensor and hand probe for leak detection in the manufacturing industry have been developed by INFICON. With improved performance, the detection of small leaks is now significantly easier.

The new Strix™ sensor and hand probe connect to the INFICON Sentrac Hydrogen Leak Detector, making it the Sentrac Strix Edition. Designed for use with hydrogen tracer gas, the instrument enables easy leak detection in applications where the acceptable leakage rate is measured, for example, by the refrigeration industry in grams per year.

The new sensor helps detect any presence of gas quickly. With significantly improved response and recovery times, it enables the operator to pinpoint leaks even in demanding environments. As well as helping operators find very small leaks efficiently, the sensor will also assist users to locate leaks of widely varying sizes, from the extremely small to the very large.

This improved performance has been achieved with the development of the new proprietary Strix sensor, where new features, combined with advanced signal processing, have resulted in easier locating of leaks, covering a wide range of sizes.

The Sentrac Strix Edition is intended for manufacturers of refrigeration, air-conditioning and automotive products.

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

## Surface Finishing News



## Specialists in Material Handling Solutions

Stewart Gill Conveyors Ltd have been supplying overhead conveyors into all sectors of industry for over 70 years.

As a long time member of the Railtechniek van Herwijnen BV Group based in the Netherlands, Stewart Gill Conveyors can offer a comprehensive range of overhead conveyor products which are capable of handling unit loads up to 7000kg.

Stewart Gill Conveyors Ltd offer complete manufacture, installation and commissioning, coupled with fully documented instruction, operation and maintenance manuals.

We do:

- In-House 3D CAD engineering
- In-House manufacturing in the UK and EU
- In-House design of PLC/PC control systems
- Industry 4.0
- Worldwide installation and commissioning
- Remote support, service & inspection

Part of the RAILTECHNIEK VAN HERWIJNEN GROUP

### Product Overview



Manual Monorail Systems  
Unit loads up to 3000kg



Monorail Chain Conveyors  
Unit loads up to 300kg



Power & Free Conveyors  
Unit loads up to 7000kg



Floor Conveyors  
Unit loads up to 500kg



Stewart Gill Conveyors Ltd

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Unit 3&4 Brook Business Park  
Brookhampton Lane  
Kineton, Warwickshire  
CV35 0JA, United Kingdom  
Tel: +44 (0)1926 641424  
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[www.stewart-gill.co.uk](http://www.stewart-gill.co.uk)

## Business Products & Services News

### Business rates are an unacceptable threat for anaerobic digestion operators, say industry leaders, and will affect the UK's ability to meet its Net Zero targets

With charges escalating year on year, business rates are now a real burden for the anaerobic digestion (AD) industry and risk putting many plants out of business, warns the Anaerobic Digestion and Bioresources Association (ADBA) and leading renewables consultant Chris Handel.

This issue is particularly critical considering the value of AD in addressing climate change and the need for the UK to decarbonise agriculture and other key sectors of its economy.

HMRC's Valuation Office Agency (VOA) has been reviewing its business rates assessments and the change of methodology could lead to AD plants in the UK facing bills that they



couldn't meet - causing the closure of their business and the loss of a precious waste management and decarbonisation service for the UK.

There are currently 685 AD plants in the UK treating 46 million tonnes of organic wastes every year and recycling them into green biogas and biofertilisers for the energy, transport, heat and farming sectors.

By capturing and transforming

organic matter - that would otherwise emit harmful greenhouse gas emissions (GHG) on landfill or through incineration - into alternatives to fossil-based energy and fertiliser, the AD industry delivers a 1% reduction in the UK's GHG emissions every year - the equivalent of taking 2.3 million cars off the road. Fully deployed, the industry could abate the UK's GHG emissions by 6% by 2030.

The trade association has been working with leading rating practitioner Chris Handel in looking to bring the AD industry together to explore how to address the issue with the VOA and ensure that the business rates remain affordable and fair.

Contact  
[www.adbioresources.org](http://www.adbioresources.org)

### E-Learning platform launched for EMiR Users

Solutions in IT, the company behind the EMiR business management solution for companies working in the electromechanical sales, service, repair and assembly sector, has launched a new e-learning system, eMiR-Learning.

A survey carried out by the company found that most of its customers' new employees learn from existing EMiR system users. The downfall to this is that some training received by the existing user may have been forgotten, or they may not fully understand functionality a new user requires for their role. This means a new user may not be getting the most out of the company's system and may be unaware of how they can use it to best perform their job.

To solve this, Solutions in IT created eMiR-Learning to supplement the in-depth EMiR training provided by an instructor. It is designed to help train new starters

and introduce them to the key functionality in EMiR with overviews of each of the software's modules.

The courses are comprised of screen captured videos walking learners through an overview of the EMiR functionality. At the end of each course, an exam tests the learner's knowledge of the content, and successful candidates are awarded with a certificate. Each course is between 45 and 90 minutes in length and can be completed over the space of a month, giving users the flexibility to control their own learning.

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



### CE and UKCA Marking



marking for over 20 years and is perfectly positioned to guide you through the CE and UKCA marking process, such as our service to convert your CE Declaration of Conformity to a UKCA declaration. Additionally, if you have a new product we can help you by carrying out an inspection and supporting you with compliance.

Our sister company Authorised Representative Service is also available to help you place your products on the EU market if you do not have a physical presence within the EU. Regulation (EU) 2019/1020 comes fully into force within the EU on 16th July 2021 and affects all CE marked products.

The General Product Safety Directive also has a similar requirement. With our Dublin office, we can support manufacturers to place their products legally on the market by becoming the responsible economic operator.

Learn more at [www.conformance.co.uk](http://www.conformance.co.uk)

As the UK has left the EU single market, the UKCA mark is being phased in from 1st January 2021 to replace the CE mark within the UK and will become mandatory from 1st January 2022.

While the CE marking directives and the UK regulations remain parallel, the transfer is mainly administrative. Conformance has led the field in CE

### British business author recognised at prestigious American book awards

A book about the importance of starting business conversations in the right way has been recognised in a major American business book ceremony.

The First Minute: How to Start Conversations That Get Results, written by British author Chris Fenning, was a winner in the 2021 Axiom Business Book Awards.

Fenning's book, focuses on a single minute of

communication that the author says can "immediately improve how you communicate at work".

Chosen from nearly 500 entrants, the awards honour the best business books published during the past year. Previous winners include industry icons Seth Godin, Guy Kawasaki and Peter Drucker.

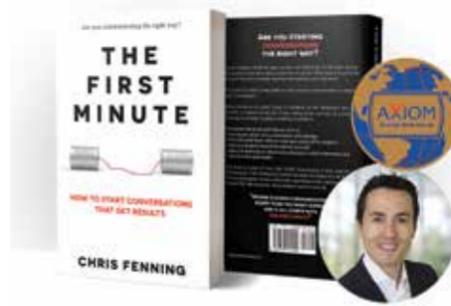
Fenning said: "We have all been told about the importance of being clear and concise, but who knows how to achieve that goal? The answers to this question are laid out in The First Minute."

"The simple methods in The First Minute can improve the efficiency of almost every conversation, email and meeting we have at work."

On his Axiom award, Fenning added: "It's an honour to receive this award and it shows the value of this topic."

For more information on Chris Fenning and The First Minute, visit: <https://chrisfenning.com/>

Contact:  
M +44 (0)7984 415958  
Chris@chrisfenning.com



## Leaders in cross-industry serialisation

Regulatory compliance for serialisation is increasingly becoming a focus area for pharmaceutical manufacturers and supply chain partners across the world. Therefore, as would be expected, **advanco** is already well-known and solidly established within the pharmaceutical sector.

However, this could be just the beginning, with a very real potential for such services across multiple other consumer and business sectors.

Staying with pharma for the moment, most developed and developing economies have either already laid out the regulatory road map

for serialisation or are in the process of doing so. This is largely due to rising drug-related criminal activities and supply chain inefficiencies. Certainly, pharmaceutical counterfeiting is a profoundly serious issue, one which is likely to worsen as the world searches for a COVID-19 cure. It is estimated that 10% of pharmaceutical products worldwide are counterfeit, resulting in up to one million deaths every year, and British researchers have estimated counterfeit medication could kill up to 10 million people by the year 2050. In addition, the global counterfeit drug market size exceeds \$75 billion.

To help with this, **advanco** is focusing on product identification in the supply chain, using

barcode technologies to prevent counterfeits in pharmaceuticals. This core expertise in barcode, RFID and supply chain solutions has been informed by 41 years of experience.

**Advanco** has concentrated on customers in the pharmaceutical industry for over 11 years, with its first customer being Pfizer Turkey. Throughout this time, it has established itself as a leading provider (ISV) for Level 3 Item Level Serialisation and Track-and-Trace throughout the entire supply chain and around any ERP system.

**Advanco's** ARC, a serialisation packaging solution for Track-and-Trace, is the gateway to the national databases used for verification. ARC is used by over 40 customers around the globe at more than 50 sites, controlling over 400 package lines.

The entire solution is built to and complies with strict international regulatory standards and ensures companies comply with global legislation (such as EU Hub, MDLP, Turkish MoH), including all special functionalities like Russian Cryptocode or US DSCSA requirements on the shop floor and in the warehouse.

ARC has the largest interface portfolio in the industry and is designed to prevent counterfeits in the pharmaceutical industry by focusing on product identification in the supply chain. Integrating packaging lines and enterprise serialisation repositories, it is created for companies to utilise multiple line management systems, simplify integration and enhance flexibility, and it can adapt to a wide range of packaging line technologies and production management systems.

What's more, integration across control and enterprise levels enables ARC to function as a



centralised hub for managing serialisation data and facilitating product traceability across the entire supply chain.

**Advanco** also has a solution portfolio for Serialization 2.0., from compliance to optimization. Replacement of components, lowering the TCO, OEE and blockchain are all part of Serialization 2.0

A noteworthy development for the company, **advanco** recently announced a ground-breaking partnership with former Bosch packaging giant Syntegon. This partnership is already seen as being of great importance to the overall pharmaceutical serialisation sector, opening-up the rigid nature of the serialisation track & trace supply chain.

It combines the strength of **advanco's** leading software site manager system, known as ARC, which handles the serialisation and aggregation processes, with Syntegon's high-end machines for packaging pharmaceutical products and drugs. This development will bring tremendous value to pharmaceutical companies by significantly lowering the total overall cost and preventing a lock-in effect, allowing vendors to choose different machines from different suppliers.

For any more information please see the details below.

T +32 272 68 80 0  
info@advanco.com  
www.advanco.com

# Steel Span



Tensile fabric structures specialist Steel Span are pleased to announce the appointment of David Duxbury as UK Sales Manager.

With over 16 years industry experience and a technical background in construction, David will be an integral part of the Steel Span team, responsible for business development and project management for the brand.

Focusing on serving clients from within sports & leisure, aviation, recycling, agriculture and warehousing & bulk storage industries, David will drive new sales and profitable growth in line with business strategy and objectives.

"It's an exciting time to be joining Steel Span. Particularly in these turbulent times, being able to provide an accessible, practical and high-quality solution can make a real difference to UK companies, so it's great to be part of that. Our structures support operational reactivity and agility, and as we head into winter, we'll be working hard to keep businesses on track in the short and long term.

Steel Span is a fresh, upcoming brand backed by the expertise of an established operational team, with all the credentials and core values to deliver superb value and all-round customer

care. I'm delighted to contribute in bringing this versatile offering to market and look forward to the challenges and opportunities ahead." David Duxbury, UK Sales Manager, Steel Span

From small businesses to blue chip organisations, Steel Span structures are a truly versatile solution suitable for a variety of applications. Clarity of communication at every project stage is a priority, and attention to detail ensures seamless installations and delivery. Thanks to the quality of the product and the experience and knowledge of the sales team, CAD designers, technical staff and site engineers, health & safety compliance and long-term usability of the buildings is assured.

Please contact Steel Span on 01782 478792 or visit [www.steel-span.co.uk](http://www.steel-span.co.uk).



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Warehouse safety, Abacus Flooring Solutions provide on-site survey to ensure a safe workspace.

Company Director, Nick Megson has always put safety first for his employees and clients on every job they complete. It's essential that with every industrial floor installation a number of crucial checks and precautions are taken to ensure the work area is as safe as possible for people to operate and carry out their duties.



Abacus Flooring Solutions Limited have many tried and tested methods to prevent these accidents. From free advice to on-site surveys. They have recently completed a safety improvement project for a major company. After their knowledgeable advice and actions have been incorporated it will now act as continuous protocol for the client and implemented on a daily basis.

Warehouse Safety can be viewed in many ways; however, Abacus Flooring solutions are aware that the loading area is perhaps the most hazardous. They carried out work to all 120 dock levellers whilst the warehouse was closed to guarantee both maximum safety and minimalise disturbance to the client's operation.

Nick Megson commented, "If you look at the role of the Dock Leveller, it has many moving parts. When the dock leveller is in use, the door is opened and the dock is raised. This is when the risk of an accident is greater, through trips and falls."

Nick and the team are determined to not only carry out a first class install service but to also go the extra mile and provide customers with solutions on potential safety issues including line marking, slip resistant floor areas, dock loading areas, fire exits to name a few.

On this project Abacus have treated the perimeter of the plates, to include the front of the plate and the extension plate that sits onto the trailer.

**For more information on how Abacus Flooring Solutions can add critical safety measures to your work space please contact Nick Megson on 07904 396962 or email [Nick@abacusflooringsolutions.co.uk](mailto:Nick@abacusflooringsolutions.co.uk)**



# Leaders in innovative electrical vehicles

**BRADSHAW**  
ELECTRIC • VEHICLES

**B**radshaw Electrical Vehicles is a leading UK manufacturer and supplier of electric vehicles. As a family-run business since 1960, Bradshaw first began trading as a plant hire company. Since 1976 the company has been supplying industrial electric vehicles to the UK and worldwide markets. Providing solutions for moving materials, products and people Bradshaw Electric Vehicles are robust, reliable, and a safe, efficient and economical mode of transport for a range of industries.

Bradshaw has gained an extensive amount of experience in manufacturing and supplying electric vehicles and is a leading supplier within the industry as well as being the sole UK distributor of Goupil and Club Car, the world's largest manufacturer of golf carts and utility vehicles.



Providing its broad spectrum of electric vehicle solutions for a wide range of different industries, Bradshaw maintains a diverse and loyal customer base. Ramsy Labassi, Marketing Manager at Bradshaw, explained, "We have a broad customer base, since our vehicles can move materials, products, waste, and people, our vehicles span across almost every sector you can think of." Ramsy expanded, "We supply airports, NHS, Manufacturing, line feed, warehouse, logistics waste collection, waste movement, leisure and hospitality, landscape & maintenance, last-mile delivery."

In terms of the company's extensive range of vehicles, Bradshaw's range consists of Tow Tractors and Load Carriers both ride on and pedestrian. "Our extensive range of tow tractors includes narrow width, mid-range, and high capacity tractors, offering load capacities between 1 and 25 tonnes. The load carrier range has a payload up to 3 tonnes, and 6,000kg tow capacity witch quickly and efficiently transports larger loads around sites."

Ramsy continued, "The pedestrian-controlled tow and load carriers are an ideal alternative



to areas restricted to conventional vehicles, confined spaces and areas with heavy footfall all offering high-quality performance in a safe and compact design."

Bradshaw is proud to be the sole UK supplier of Goupil Electric Road Vehicles. Adaptive and versatile, the Goupil range is extremely popular for providing vehicles to local authorities, landscape and maintenance, last-mile and

campuses. "The Goupil G4 has been a popular vehicle with the ability to carry up to 1.2 tonnes. The G2 is the more recent addition to the family, a compact all-electric road vehicle, ideal for sites connected by public highway," Ramsy said.

Looking ahead to the future, Bradshaw plans to continue to expand upon its impressive services and continue to develop new innovative products for its customer. Ramsy told us that,

"We are continuously developing, increasing and improving our product range which is why customer's always come back to us."

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

**Contact**  
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[www.bradshawev.com](http://www.bradshawev.com)



## BRADSHAW TOW TRACTORS TOWS LOADS

Our tow tractors range from a 1-tonne tow capacity up to 25-tonnes. Available in a number of cab and body options, ride on, and pedestrian, our wide range is suitable for indoor and outdoor applications. Should your operations require a bespoke solution, our team can assist in building the perfect solution for your needs.

With over 40 years of experience, Bradshaw Electric Vehicles have a reputation for the safest and most versatile vehicles in the market. Visit our website and explore our full range of vehicles.

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**BRADSHAW**  
ELECTRIC • VEHICLES

# Your guiding light for LED solutions

**“We were established in 2009 as OCIP ENERGY Ltd,” explained Aidan Brown, Managing Director. “As we approached our 10th anniversary, and with the acceptance of LED lighting into the mainstream market, we changed our name to LED Industrial Lighting Company Ltd to better reflect the nature of the market in which we operate.”**



Based in Cheltenham, LED Industrial Lighting Company Ltd operates across the UK and Europe, and numerous key clients have used its services across their European operations. As the status

of LED lighting as changed, so the company has adapted its services to better address the needs of the marketplace. “The company’s role has evolved as LEDs have become more accepted,” explained Aidan. “In the early days, it was about convincing businesses that LED was the future. Nowadays, we are effectively a specifier, assisting clients to identify and source the most appropriate product for their premises.”

Working exclusively with LED lighting, the company has a focus on the commercial and heavy industrial markets, including hazardous area environments, as well as significant experience in the niche market for obstruction lighting.

With the increase in LED lighting’s popularity, there has undoubtedly been an increase in the number of poor quality products, which have swamped the market and made it increasingly difficult to find the best and most suitable solution. Thankfully, LED Industrial Lighting Company Ltd’s extensive experience of the LED lighting sector allows it to



match the most appropriate fittings to the client’s requirements, as well as guiding clients to the right products for their individual requirements, without making expensive mistakes.

Certainly, LED Industrial Lighting Company Ltd has a documented history of listening to the market and addressing its needs, something which is reflected in the company’s motto to ‘listen and deliver.’ “We believe in understanding the client’s operational requirements and then developing a value proposition that addresses those needs, all within budget,” Aidan elaborated.

Of course, LED lighting is constantly evolving, but there are limitations as to where future efficiencies will be generated in the LED technology alone. “Where the real revolution is occurring is in the controls for these lights,” explained Aidan. “LED Industrial Lighting Company Ltd is able to offer the market leading remote monitoring platform, which allows a user to monitor and manage their lighting infrastructure from their own laptop, giving real-time data on what is happening within their office, building or entire estate. We can monitor a suite of parameters from energy usage to the status of the batteries in the emergency fittings. This offers

potentially huge maintenance savings, and the system will automatically run test and report systems to ensure full regulatory compliance.”

With an outstanding reputation for quality, value and customer service, there is no doubt that the future looks bright for LED Industrial Lighting Company Ltd, a company which clearly possesses the drive and determination to continue its innovative work. “2019 was a challenging year for us as a business. Specifically, I was diagnosed with cancer in March and underwent chemotherapy for the best part of a year. During that time, I continued to work and am very grateful for the support of our existing clients, as well as the patience of the new ones. Having had the all-clear at the end of 2019, I am keen to drive the business forward and make up for lost time.”

**Contact**  
**T 01242 250633**  
**info@ledindustrialighting.co.uk**  
**www.ledindustrialighting.co.uk**



## Palamatic Vacuum Tube Lifters solve manual handling of door cores, for leading Fire Door Manufacturer

Palamatic are the leading supplier of Vacuum Tube Lifting Systems for handling products up to 350kg to all manufacturing industries. With 35 years’ experience, thousands of our solutions are in use on a daily basis.

Our long standing customer, Ahmarra Door solutions has over 10 Palamatic vacuum lifters on site for handling boards and doors up to 120kg. They are one of the UK’s leading fire door manufacturers and have been manufacturing door sets

for over 25 years. Vicky Boulton, Marketing and Compliance Manager, explained how the Palamatic lifting equipment assists their operators. “The vacuum lifters make moving heavy door cores easier and quicker. It’s also beneficial from a health and safety perspective, as it helps prevent our staff from the risks of repetitive strain and back injuries”.

**T 01246 452054**  
**www.palamatic.com**



## Hart moves into film



Hart Door Systems, the first specialist door company in the UK to manufacture high-speed doors, has moved into a series of short films to high-light its successes.

The most recent is a profile of Hart’s work at Komatsu’s 200,000 sq m plant at Birtley, Co Durham, where Hart has installed over 60 doors across a range of door types including Speedor Cleanrooms, Speedor Storms and electric roller shutters.

“On analysis Komatsu’s operation in the North East is a huge success, manufacturing excavators, dump trucks, dozers and loaders for a global market,” says Hart’s chairman, Doug Hart. “We have been involved since the 1980s. Such a large facility brings with it many challenges such as the need to ensure an efficient flow of large vehicles associated with production.

“In addition other issues include heat loss and pedestrian safety within the building. This is a fast-moving, highly efficient, business where safety and reliability are paramount. Though our doors are a small part of the highly efficient facility, which so far has produced over 60,000 units, we play our part through delivering doors that take account of the environment and daily usage,” says Mr Hart.

“Our solution has been to provide a first-class service by offering support and parts when required and due to the reliability of the doors, maintaining the safe, efficient running of the facility. Each Hart door is made to measure and each safety device and activator is fitted to suit specific areas, giving Komatsu a safe and secure working environment for its employees.”

Komatsu and Hart began their relationship with the installation of one of Hart’s earliest prototype Speedors. Due to the success of the door, four Speedors and four roller shutters were installed in 1992. Over the years, Hart has installed over 60 doors and only recently replaced some of the original doors installed in 1992.

Mark Stephenson, Production Engineering Manager, Komatsu, says: “Komatsu has used Hart Doors for many years as we find them reliable in service.”

**Contact**  
**T 0191 214 0404**  
**www.hartdoors.com**

## Modula presents its new storage solutions for controlled atmosphere environments

Modula S.p.A. introduces new storage solutions designed to maintain the cold chain and operate in controlled environments. The three solutions developed by Modula are:

- Modula Climate Control: Controlled temperature and humidity storage systems
- Modula Clean Room: Storage systems for clean rooms
- Modula Dry: Low humidity (dry room) storage systems.

Today, companies in all sectors need to invest in logistics, a fundamental driver which is often a critical success factor. It is well known that a warehouse

is not merely a storage place but a real backbone of the supply chain, a catalyst of added value which, if well managed, can provide benefits to the entire chain, both upstream and downstream.

Those who work in sectors such as the pharmaceutical, food, chemical or electronics sector look for automated solutions that facilitate access to SKU codes while meeting the need to access a high number of items on the one hand and to make the most of the available space on the other. In addition, the regulations in these sectors are often stringent, and specific equipment and structures are required for the storage of certain goods.

“These three different highly technological products expand our range and represent an efficient and cutting-edge solution in terms of storage under controlled conditions. Our goal is to respond to the demand of rapidly evolving sectors and guarantee our customers maximum flexibility thanks to scalable and modular systems,” explains Managing Director Massimiliano Gigli.

**www.modula.com**



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# The future is here: more speed, less mess, more quality with sonic drilling

**W**orking across the UK, Borehole Solutions provides geotechnical drilling solutions informed by over 20 years of experience. "I founded the company when I was 18 back in 2001," said John Rodgman, Director. "I started working for my father-in-law on the drilling rigs at 15, and then I left and set up my own company, initially as a sole trader called JJR Site Investigations before becoming Borehole Solutions Ltd."

Whatever your site investigation needs, whether it's a small city basement or a large stadium project, Borehole Solutions will provide a bespoke service to ensure you get what you need. The company's team



boasts over a century of drilling experience between them, meaning you can rest assured that your geotechnical investigation is in safe hands. Borehole Solutions is also a proud member of various prestigious industry bodies, including the British Drilling Association, CHAS, RISQS and

Construction Line, to name a few.

"We drill boreholes for any reason, anywhere, and anyhow. We take huge pride in helping our customers as much as we can, saying if we can walk there, we can drill there. We find solutions where others find problems."

"Our main work at the moment is cutting-edge sonic drilling using market-leading, Fraste Eijkelpamp sonic drilling rigs,



which is the best modern sonic technology in the world. As well as this, we do any other type of drilling discipline such as cable percussion, rotary drilling, window sample drilling and limited access drilling."

Key to Borehole Solutions' success is its state-of-the-art technology, and the company invests heavily in R&D to enable it to test ideas and methods well before competitors. "This means we can find breakthrough methods for our clients and therefore offer better quality and speed," John explained.

In line with this commitment to ongoing investment, Borehole Solutions has recently spent millions of pounds in software, planning, and design, as well as buying drilling rigs. "We have also opened a brand new bespoke 25,000ft<sup>2</sup> unit in Leeds to house our growing business.

As we continue to expand, we intend to become a one stop shop for our clients, with the drilling of the boreholes, lab testing, and report writing all done in house at our new state-of-the-art units by our in-house trained staff."

This expansion has continued despite the COVID-19 pandemic this year. "We have



thankfully managed to stay open while others shut across the UK in this sector. One company in the

Borehole Solutions Ltd group, BSL Precision Engineering, worked 24/7 making ventilator parts for the NHS. This year has been a time where companies have really had to pull together as a team, working hard and working remotely for long periods to make sure we are safe.

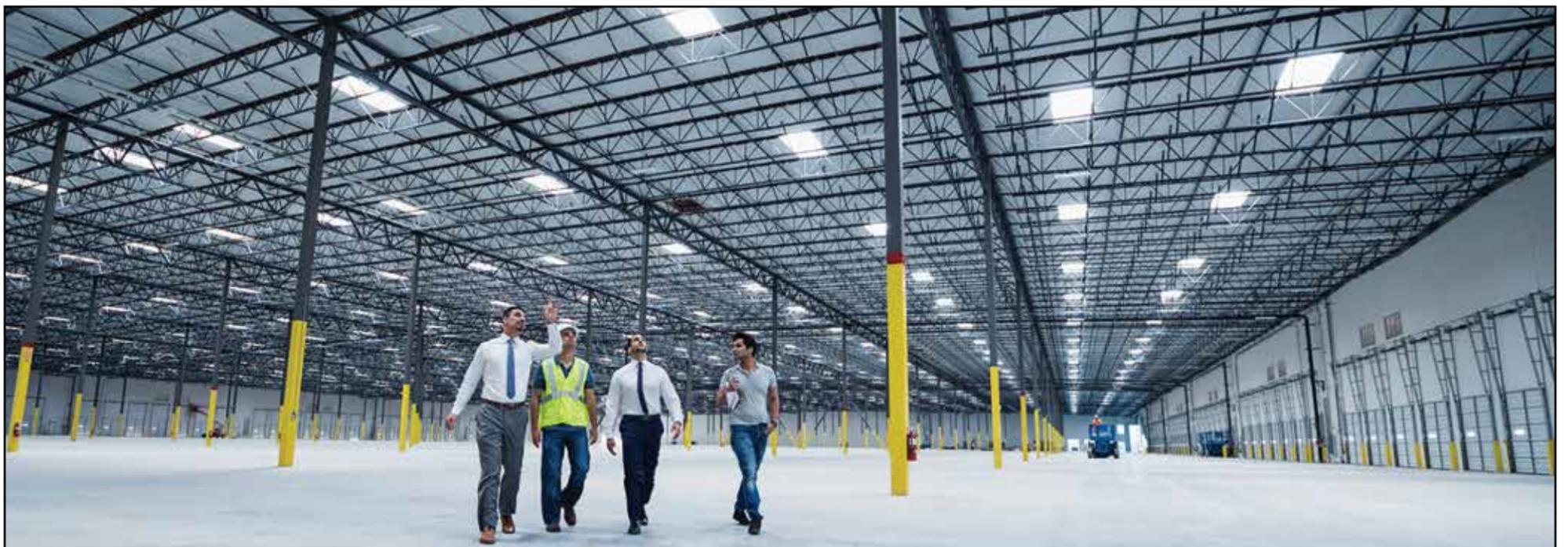


"We are very driven by young, upcoming professionals in the sector, which is now at a point where the older generation is stepping down for various reasons. We are pushing for better onsite working lifespans and rate increases to create a better and more appealing industry," John concluded.

If you would like to find out more information on everything Borehole Solutions Ltd can help you with, head to the website or get in touch.

**Contact**  
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**www.boreholesolutions.co.uk**

## Handling, Storage & Logistics News



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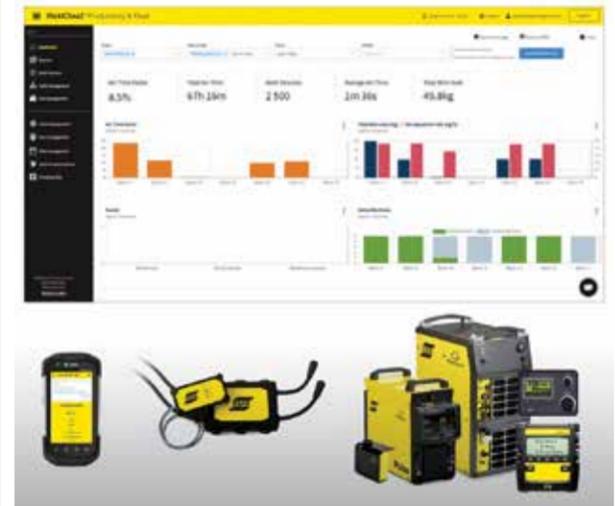
## WeldCloud Fleet, a cloud-based digital application helps service managers improve welding equipment uptime

Newest Application in the suite of ESAB Digital Solutions, which includes WeldCloud Productivity for production managers and WeldCloud Notes for engineers and quality personnel.

ESAB Welding & Cutting Products has introduced WeldCloud Fleet, a cloud-based application designed to manage a fleet of welding equipment across one or multiple locations. Ideal for service and maintenance managers with larger fleets of welding equipment, WeldCloud Fleet keeps the fleet working at optimal productivity levels by enabling users to:

- Manage welding jobs across a fleet of equipment.
- Deliver support for planning, documenting and providing reminders for service, maintenance and calibration activities.
- View arc time per welding station.
- Provide remote software upgrades to a welding fleet instead of manually configuring them.
- Include GPS locations for welding equipment.
- Prepare event logs for early detection and notification of equipment issues.

"Industries like shipbuilding, fabrication and manufacturing, rental companies, mobile machinery or any company that maintains a large fleet of welders can save hundreds of hours of maintenance time using WeldCloud Fleet," says Jon Hofmann, Global Product Director – Digital Solutions, ESAB.



WeldCloud Fleet sends immediate notifications from each individual machine to the user, alerting them instantly of issues and service needed. This application also provides a complete machine event log and service log, import and export of welding jobs, and location tracking of each connected machine.

Contact  
[www.esab.com](http://www.esab.com)



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## 123insight INFO Exchange

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## Automations role in the race to develop COVID-19 vaccine

In addition to supplying high quality components, Versatile Controls Limited's automation department design and manufacture electrical, pneumatic, and hydraulic control systems to the highest quality.

The company has maintained a full workforce throughout the Covid-19 pandemic supplying the world's leading pharmaceutical companies with bespoke automation systems to assist in the race to develop the Covid-19 vaccine.

William Slim, Director explains, 'A particularly challenging aspect to developing such critical systems during the pandemic is the extremely tight deadlines involved.'

We are proud to have delivered several critical projects on time and to specification.'



The company primarily serves pharmaceutical, medical, automotive and petrochemical industries. Extensive experience in electrical circuit design and software development means Versatile can offer a complete automation package.

[www.versatilecontrols.co.uk](http://www.versatilecontrols.co.uk)

## New online MRP evaluation events now include free MRP implementation paperback

123 Insight Limited have announced a series of new dates for its free online INFO Exchange events between April and September 2021, aimed at companies considering implementing MRP for the first time or replacing an existing system. Attendees will also be sent a free paperback copy of 'How to implement a manufacturing system', detailing the best practices and pitfalls associated with implementing MRP.

The online events run for 90 minutes, allowing companies to see the 123insight system and understand what MRP should be doing for their business. A Q&A session answers any outstanding questions. The events are limited to 10 attendees, ensuring everyone gets time to ask questions.

Simon Badger, Managing Director, said, "These online events have proven extremely popular throughout the pandemic, as they have allowed companies to remotely move forward with

MRP selection and implementation regardless of the COVID-19 restrictions in place. The inclusion of our book provides them with a tried and tested implementation template for any system, not just our own. Even if they choose not to move ahead with 123insight they have a guide that takes them through every step, from selection through to go-live and measuring success."

Companies can book to attend at [123insight.com](http://123insight.com).

Contact  
T 01489 860851  
info@123insight.com  
www.123insight.com



## Continuity in a challenging environment

In keeping with a long-term succession plan, the previous CEO, Markus Dalla Monta, will retire as of July 2021, following a 35 year career at Traco Power. Stefan Schaffhauser (pictured) will assume the CEO position with the beginning of the business year on April 1, 2021. As of this date, he will lead the Traco Power Group together with the CFO, Adrian Berger.



As before, Rolf Caspar – company owner and Chairman of the Board – will continue to concentrate his efforts on strategic issues in the firm, in conjunction with the board of director members, Jennifer Caspar and Ueli Wampfler.

During the past three years, Stefan Schaffhauser managed the international business team at Traco Power as their managing director, effectively contributing to a positive corporate development. Prior to his career at Traco Power, Schaffhauser was employed at various industrial enterprises in management positions and as a business consultant.

Stefan Schaffhauser obtained a Master's degree in Engineering and Management at the ETH (Confederated Technical University of Switzerland) in Zurich.

Stefan Schaffhauser is a Swiss citizen; he is 48 years old and lives in Central Switzerland with his wife and children.

The company is well positioned to implement the group's 5 year strategy and continue a positive employee culture, rooted in the new 'Vision 2025' plan. The owner family and the board of directors believe this Vision 2025 plan will help pave the way toward a successful future for the Traco Power Group.

Contact: Florian Haas  
T +41 43 311 45 11  
F +41 43 311 45 45  
f.haas@tracopower.com  
www.tracopower.com

## Watlow's New 1/32 DIN PM LEGACY™ Controller is the First in the Industry to Feature Bluetooth® Wireless Technology

Watlow®, an industry leader in the design and manufacture of complete thermal systems, recently introduced its new 1/32 DIN PM LEGACY™ controllers, which are the first 1/32 DIN controllers on the market to incorporate Bluetooth® wireless technology. Bluetooth® is used to enable EZ-LINK™, Watlow's mobile app for setting up, monitoring and adjusting PM PLUS™ and PM LEGACY™ controllers.



Watlow's PM LEGACY SERIES panel-mount controllers are industry-leading PID controllers that offer optimal performance utilizing simple control and menu functionality without complex features. They are ideally suited for basic applications and usage levels.

PM LEGACY controllers include one universal input and an option for up to two outputs. These controllers can be ordered as PID process controllers or as dedicated over and under-temperature limit controllers. The LEGACY SERIES controllers feature a SMOOTH-TOUCH™ keypad eliminating contamination points on the front of the controller and creating a better seal on the front panel as well as a function key for simple, one-touch operating of user-defined, repetitive activities. PM LEGACY controllers are backward compatible with EZ-ZONE® PM controllers.

"There was a need in the market for a simple controller for basic applications, so we developed the LEGACY SERIES to fulfill that void," said Andy Borkowski, product manager. "Our customers don't always want the most powerful, high-end controller. Some applications require basic control and this product line is made for those situations. Earlier this year we introduced the 1/16 DIN and now we can offer the 1/32 DIN as well, which is the first of this size in the industry to incorporate Bluetooth® technology."

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

## Single output power supply delivers 300W from a footprint of just 4 x 2in

Vox Power announces the VCCS300S, a tiny conduction cooled power supply that delivers 300W of silent and dust-free output power from a tiny 4in x 2in x 1.61in (101.6 x 50.8 x 40.89 mm) package. Designed for the global industrial sector, the VCCS300S design focuses on high efficiency and reliability to offer maximum flexibility to design engineers during system integration, especially those working in robotics, automation, test and measurement and areas like industrial lasers.



Weighing just 310g, it is a true conduction cooled power supply which delivers best in class performance capable of delivering up to 80% more power than competitive products in the same package. To increase the scope of applications for the power supply or to satisfy the needs of its working environment, the VCCS300S can also be

convection or forced-air cooled. According to Brian McDonald, CTO at Vox Power, the new power supply achieves very high efficiencies of up to 95% and, when mounted correctly, the unique cooling techniques allow

for very effective heat dissipation enabling full power operation up to 40°C ambient.

The power supply complies with UL/IEC62368-1 as well as various MIL-STD standards which makes it very suitable for ruggedized environments.

By bringing units together, either in parallel or in series, output power can be scaled to 600W, 900W and beyond making the VCCS300S suitable as a power platform serving multiple products with varied power output requirements.

For more information, please visit <https://www.vox-power.com/> or contact us via email: [support@vox-power.com](mailto:support@vox-power.com) or phone: +353 1459 1161

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The VCCS300 is a scalable single output conduction cooled power supply. It is the ultimate power solution for applications where rugged reliability, high efficiency, silent operation and BF rating are important factors.

**600W 7" x 4"**

The VCCM600 combines the advantages of a modular and user configurable power supply with the high reliability of a fan-less architecture. It can be configured as a conduction, convection or forced air cooled solution.

**600W 5" x 3"**

The NEVO+ modular and user configurable power supply series. The NEVO+600 delivers 600W from a tiny 5" x 3" x 1.61" package weighing only 600g when fully configured.

**1200W 6" x 6"**

The NEVO+1200 delivers 1200W from a tiny 6" x 6" x 1.61" package weighing only 1.2kg when fully configured.

We offer a range of unique high-density AC/DC power solutions for Medical, Industrial and Technology markets. The unrivalled size and weight advantages of our products, blended with additional functionality and features, enable customers to create innovative, smaller and aesthetically pleasing end solutions. We offer a comprehensive range of configurable and fan-less power solutions complimented by world class technical support.

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## BCL launches new e-commerce website

BCL Enclosures has launched its new e-commerce website: [bclenclosures.com](http://bclenclosures.com). Where you can order from a vast range of products. BCL Enclosures manufactures almost its entire range in the UK, which overcomes the supply issues often found when ordering from non-UK manufactured sources.

BCL's enclosure ranges include IP65/IPK08 polycarbonate locking door enclosures with galvanized steel back plates, die cast aluminium enclosures rated to IP54 or water-tight IP65 versions, general and multi-purpose boxes in ABS and other materials. Sensor enclosures, potting boxes, instrument cases, and many other enclosure types. BCL Enclosures also supplies power supply units. In addition to its enclosure ranges, the company also offers its full range of accessories on the e-commerce site, including cable glands, fuse holders, locknuts and venting elements.

Customisation is a BCL specialism, with cut-outs, machining, drilling and manufacture in alternative materials available. Additional customisation services include alternative colours.

A high percentage of BCL Enclosures' enclosure products are available from stock or on very short lead times. Advice on enclosure specification continues to be available by e-mail and telephone from its friendly and knowledgeable team.

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## Q Electrical Industrial Services Ltd emerges from acquisition

Despite uncertainty with Brexit and COVID-19, the continued growth of new VSD Contract Partnerships and Electrical Projects has led to Quantum Controls acquiring Lothian and Borders Electrical in East Lothian, Scotland.

Lothian and Borders electrical is one of Scotland's leading electrical contractors and through this acquisition Quantum now have a nationwide network of 6 Service Centres and a growing team of engineers providing a range of Electrical Services and solutions across the UK.

2020 was a difficult and challenging year for all, however as a service business with Key Worker status and over 250 VSD contracts, both companies have been extremely lucky to still be able to support our customers and experience significant growth in these troubled times. This has led to Quantum Controls being awarded the prestigious 'Drive & Motor Company of the Year' award from Industry Update.

The new Service Centre and experienced electricians will provide Electrical services such as:

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## Engel high-vis workwear helps save the environment

A brand-new 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 (245 g/m<sup>2</sup>) to produce a cool-to-wear, durable fabric.

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 'REPREEVE'.

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. The Engel 'Safety Light' collection is to be further extended during 2021 and for maximum comfort and flexibility, no matter what the work situation, the company is also marketing their high vis 'Super Stretch' range. 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 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)

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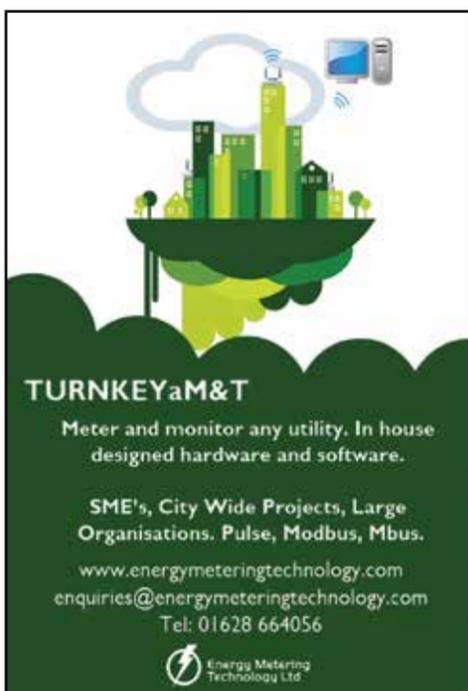
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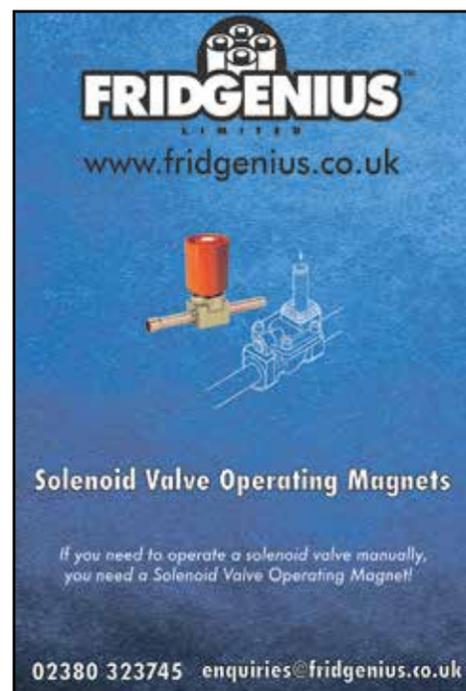


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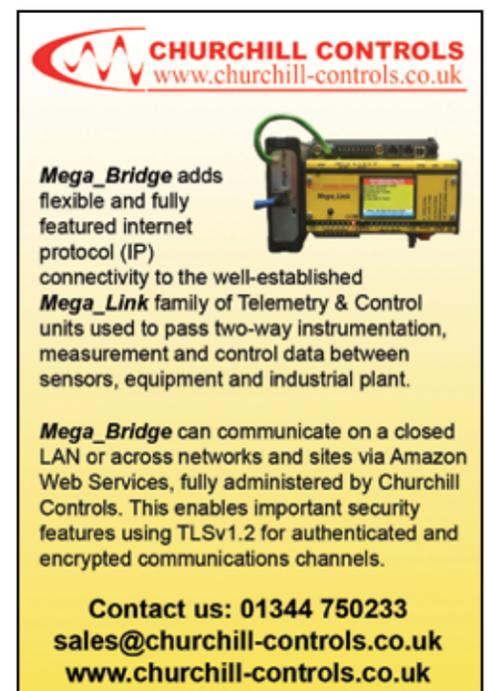
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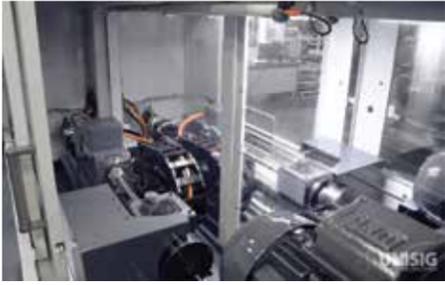
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# Across every industry, manufacturers are working to meet growing customer demand in a globally competitive market



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.

**For 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).**

Despite a widening skills gap, by organizing advanced technology into highly optimized work cells, manufacturers are maximizing productivity through automation. Specialized equipment, like a deep-hole drilling system, often is challenging to integrate, which quickly can create production schedule bottlenecks. To eliminate the risk, shops that perform deep-hole drilling should seek out OEMs that understand the needs of high-production manufacturers and have the capabilities to bring technology into the factories and work cells of the future.

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

#### Automating Holemaking

These shops increasingly opt for deep-hole drilling



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

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

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