

# INDUSTRIAL PROCESS NEWS

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# IPN

## Vision Engineering Group welcomes new Managing Director

**E**xperienced business leader, Sam Crossley (pictured) joins Vision Engineering as it navigates sustained growth across global markets.

Vision Engineering is pleased to announce the appointment of Sam Crossley as Managing Director, a role that will draw upon his extensive global leadership and financial experience.

Previously a member of the senior leadership team at Rotork, which employs over 3,700 employees in 39 countries and serving customers in over 170 countries, Sam has an in depth market knowledge in oil & gas, petrochemical, mining and automation, specialising in engineered technical products including mechanicals seals, pumps, valves and fluid control sectors. Sam's broad international experience includes steering company growth in Asia Pacific, Middle East, Russia, Europe, Africa and North America.

Sam says, "What appealed most about joining the team at Vision Engineering was the idea of leading an innovative technology company with such a long and distinguished history. There are plenty of exciting opportunities to grow the business, and I will be focussing on these over the coming years. Vision Engineering has a well-deserved brand and reputation and I'm delighted to be leading it into its next phase of global growth."

Mark Curtis, current Managing Director will continue to head the Board of Vision Engineering Group as Chief Executive Officer, focusing on strategic development and wider Group growth opportunities.

### Industry-leading products

Vision Engineering is a world-renowned name in the design and manufacture of industry-leading microscopy, metrology and digital 3D visualisation solutions. Designed to help those working in a wide range of sectors, they are recognised internationally for their clear focus on improving productivity for those who use magnification through superior ergonomics. "Our market leading technology, focus on ergonomics, and innovation are undoubtedly three main pillars that support the global reputation of our brand. In these areas our record is second to none."

The many industries in which Vision Engineering's solutions have become standard equipment include electronics, automotive, aerospace, medical device manufacture, biotech, telecom and cable. Its sales and tech support offices are located throughout North America, Europe and Asia, supported by a fully trained network of distributors.

### About Vision Engineering Limited



Vision Engineering Ltd is a global leading-edge designer and manufacturer of patented ergonomic stereo optical and digital instruments, used for inspection, manipulation, measurement and analysis of manufactured parts, by most of the world's leading manufacturers and their extended supply chains.

Vision Engineering's contract manufacturing division offers comprehensive contract manufacturing, design and commercialisation packages, giving customers access to the latest technology, as well as a team of experienced designers and engineers.



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

**Contact: Phillip Townend, Group Marketing and Communications Manager,**  
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<https://www.visioneng.com>



**Dyneo+ New synchronous motors manufactured by Nidec, combining reluctance and permanent magnets**

The new range offers high reliability, unrivalled performance and interactive commissioning. Sizes from 11kW to 500kW with speeds up to 6,000rpm. Specially designed for variable speed, DYNEO+ is available in aluminium or cast iron versions from 11 to 500kW, 132 to 355mm frame size, with IP55 or IP23 protection. Whether compact or interchangeable IEC type, these motors are easy to integrate into new machines as they are to retrofit existing installations.

**GES Group's 5 Pillars of Expertise**

Established as Grants Electrical Services over 40 years ago, the group has grown into GES Group, a leading Electrical and Mechanical Engineering business, now serving customers throughout Ireland, the UK and Europe. Currently employing over 80 staff, including many professionally trained and accredited Engineers, we respond quickly to Industry's ever-changing demands and needs, while offering geographic coverage to many of our customers. Traditionally AC/DC motor rewind and re-manufacture specialists, we have developed our portfolio as a market leader to now provide an extensive range of technically advanced products and services.

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

GES Automation (IRL), based in Newbridge, is the authorised distributor for Nidec (Leroy-Somer) Ireland. This is a very exciting time for both GES Group and Nidec as we have worked together in partnership in Northern Ireland for several years and by expanding the distributorship to Southern Ireland our partnership will create a more comprehensive infrastructure with enhanced experience and expertise and will provide our customers with a first class customer service experience.

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## Editor Recommends

# Biral sensors incorporated into meteorological station at SaxaVord Spaceport

**Biral** Meteorological Sensors  
Visibly Better

Leading meteorological expert Biral has announced that it has been selected by SaxaVord Spaceport to install its BTD-350 thunderstorm detector as part of a groundbreaking all-in-one weather station project. Taking place in Shetland, SaxaVord is currently preparing for the UK's first vertical rocket launch.

The meteorological system comprises a range of equipment that will enable the on-site team to assess all aspects of the weather and surrounding atmosphere in the lead-up to a rocket launch, improving the safety of each event.

With the BTD-350 thunderstorm detector, a standalone sensor that reliably detects the presence of all forms of lightning to a range of 83km, the Spaceport team will benefit from a unique quasi-electrostatic operating principle that gives the detector a very low false alarm rate and the ability to warn of the risk of overhead lightning.

In addition to detecting cloud-to-cloud and cloud-to-ground lightning, the BTD-350 is much more sensitive to the presence of storms compared to devices that rely solely on radio detection principles. Its ability to detect corona ions allows the sensor to warn of potential fire risks when fuelling the rocket engines, and to warn of the risk of overhead lightning before the first discharge occurs.

Nathan Neal, Sales and Marketing Director at Biral, said, "SaxaVord Spaceport required a 'full-service offering' that integrated all-weather monitoring systems into one, and we are very proud to be involved in this moment of history. The BTD-350 is the perfect piece of equipment to enhance the weather station's capabilities, so we are very much looking forward to seeing it in action later this year."

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https://www.biral.com



# The best cooling system for your business

Did you know that water evaporation can play a crucial role in keeping indoor spaces cool?

Evaporative cooling is fast becoming the most efficient option when cooling large areas. A/C is not such a viable option, because in warehouses or industrial plants, the capital and running costs would be extremely prohibitive. For this reason, facilities managers are choosing evaporative cooling, which can cool with only water and little electricity.

These systems can ensure more than 80% energy savings, thus reducing running costs for businesses. By utilizing evaporative cooling systems, you can



maintain a comfortable environment while reducing your carbon footprint. It's a win-win for both your wallet and the planet!

Easy to install and maintain, these coolers bring 100% fresh air from outside (they don't recirculate

indoor air): this improves Indoor Air Quality and workplace wellbeing.

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## Improving component life and performance



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## Introducing the Grip<sup>®</sup> Taper

The Grip<sup>®</sup> Taper is an automatic, water activated, hand held, tape dispenser, enabling biodegradable reinforced paper tape to be used by operators anywhere on the go.

The taper has a multitude of settings, enabling the user to adjust the tape length and speed as required. The machine is compact and mobile meaning it can be used both on the go and takes up less space on the packing bench.

Grip<sup>®</sup> Taper benefits:

- Hand held & battery operated
- Compact in size
- Run time of approximately 8 hours\*

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\* Dependant on usage

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application per  
battery



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weight



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change time

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## Adhesives

A 75% reduction of greenhouse gas emissions (GHG) compared to solid cartridges is possible – learn more about our unique foil-based cartridge ecopaCC™!



**A**n internal Life Cycle Assessment (LCA) was conducted by the ECODESIGN company for medmix, to assess the environmental aspects and impacts of the materials, manufacturing and distribution of the MIXPAC™ ecopaCC™ foil cartridge versus the medmix 600ml 1:1 polypropylene solid cartridge.

The results show that the greenhouse gas emissions (GHG) of ecopaCC are less than a quarter of the GHG of the solid cartridge in all these life cycle stages, and as such, ecopaCC offers a fully compatible product for standard dispensers with greatly reduced greenhouse gas emission.

medmix is a leading provider of liquid application and mixing technologies. The company is a pioneer in developing and producing sustainable cartridges for sealants and adhesives for the construction and industrial sectors. A flagship product of medmix is the ecopaCC, with its unique special foil composite with a thickness of 0.15mm, replacing the 2.2mm thick plastic body of the medmix solid cartridges. The new design of ecopaCC preserves the barrier and mechanical properties, safeguards performance and reliability,

at the time that the chosen materials and improved production bring a drastic reduction of the greenhouse gas emissions.

Dr. Adriana Díaz, Life Cycle Assessment (LCA) expert at the ECODESIGN Company in Vienna commented, "We started in 2005 as a spin-off of the Vienna University of Technology, to help organizations analyze their products, assess the environmental aspects and impacts, and support the adoption of ecodesign strategies towards more sustainable products and operations of our clients. Key ecodesign strategies for primary packaging products include, for example, the reduction in the use of materials and the substitution of materials while preserving product functionality, and using low carbon energy sources for the production processes. These strategies are already implemented by medmix for the ecopaCC. Overall, the ecopaCC shows 154.7g CO<sub>2</sub>-eq compared to 661.1g CO<sub>2</sub>-eq for a solid cartridge, a reduction in GHG emissions of approximately 77%."

The internal LCA of the medmix cartridges assessed the materials, manufacturing and distribution for a representative B2B scenario of the two cartridges. medmix gathered detailed



**MIXPAC™ ecopaCC™ foil cartridge shows a 75% reduction of greenhouse gas emissions (GHG)**

and accurate data of energy use of their injection molding processes at their main cartridge production locations. With respect to distribution, the collapsible design of ecopaCC takes up four times less space than the solid cartridge in a lorry load, which results in less than a third of the GHG emissions of the solid cartridge.

"We are delighted with the assessment results, which confirm and underpin our great efforts in making innovative and sustainable products. Ecodesign principles are a fundamental part of our innovative product portfolio and mindset," said Roman Thoenig, Head Business Segment Industry at medmix.

medmix also tackled the challenge of reducing waste from the single use of cartridges. The ecopaCC support sleeve and piston can be reused, with a service life of up to 1,000 uses for specific applications. This ensures that material savings are matched with less waste generation.

"We are embedding eco-design principles into our product life cycle and have established competency and capability in Life Cycle



**medmix is a pioneer in developing and manufacturing innovative cartridges for sealants and adhesives used in the construction and industrial sectors**

Assessment," said Adrian Cawsey, Senior Sustainability Manager at medmix. "By assessing the relevant impacts along our supply chain, of our products, and in our operations, we can optimize the environmental footprint and provide the supporting evidence. Aligned with our company commitments, we will continue reducing our greenhouse gas emissions."

**T +41 41 723 73 00**  
**mixpac@medmix.com**  
**www.medmix.swiss**

## Print & Packaging

Allpack launches grip® Taper – The innovative water-activated paper tape dispenser

**A**llpack is excited to announce the launch of its latest product, the grip® Taper. The innovative water-activated paper tape dispenser is designed to make packaging processes more efficient and environmentally friendly.



The grip® Taper allows operators to easily use biodegradable reinforced paper tape anywhere. The device is handheld and battery-operated, providing the freedom to pack parcels anywhere without the limitations of bulky desktop machines. The taper has a multitude of settings, enabling users to adjust the tape length and speed as required. With its unique, patent-pending design, the grip® Taper allows users to easily apply water-activated paper tape to their packages with one hand while holding the package with the other. This frees up the other hand, making packaging faster and more ergonomic.

This easy-to-use taping solution is an excellent alternative to traditional desktop tape dispensers, taking up only half the space while being just as effective. The device's multiple tape lengths and speed settings provide greater flexibility and control over the packaging process.

**To book your demonstration of the new grip® Taper, please contact us today on: 01543 396777 or via email at: sales@allpack.uk.com or for more information, please visit: www.allpack.uk.com/grip-taper**

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# Springpack Ltd celebrates relocation to a state-of-the-art warehouse and office facility, reinforcing commitment to sustainability and innovation

**Springpack, a renowned provider of packaging solutions, is excited to announce its successful transition to a new warehouse and office facility. This strategic move not only marks a significant milestone in Springpack's growth but also reflects the company's unwavering dedication to sustainability, workplace well-being, and delivering cutting-edge packaging solutions to its valued customers.**

The new 90,000 sq. ft. facility, which is located on a 6-acre site, showcases Springpack's commitment to providing an exceptional inventory management experience. Equipped with 18,500 storage locations, which are managed by the latest system in Warehouse Management technology, the warehouse ensures efficient storage and distribution of a wide range of packaging products. The addition of 10,000 sq. ft. of mezzanine space enhances Springpack's ability to offer innovative products to the market, bolstering its comprehensive packaging solutions portfolio.

One of Springpack's core objectives with the new warehouse is to provide increased convenience and flexibility to its customers. To achieve this, Springpack now offers the option to stock hold customers' bespoke packaging products. By availing this service, customers

can create call-off orders, effectively reducing stress on their own warehouses and significantly improving operational efficiency. This offering strengthens Springpack's commitment to being a trusted partner, providing end-to-end solutions that meet the unique needs of every customer.

In addition to the state-of-the-art warehouse, Springpack has carefully designed its new office space to prioritise workplace well-being. Understanding that a conducive work environment directly impacts employee satisfaction and productivity, the offices are thoughtfully crafted with innovative design elements. Spacious and ergonomic workstations, collaborative areas, and dedicated breakout spaces foster communication and creativity. Employee well-being is paramount to Springpack ensuring a positive and energising atmosphere, which is why an advanced inhouse gym facility has been produced, including showers.

"Sustainability lies at the heart of our business values, and this relocation exemplifies our commitment to making eco-conscious choices," said Jerry Francis, CEO of Springpack. "We are proud to have sustained our carbon-neutral status and continue to seek new ways to minimise



our environmental impact. Our new facility not only enables us to offer a wider range of innovative packaging solutions but also reaffirms our dedication to workplace well-being and our customers' success."

In line with its sustainability mission, Springpack offers a range of eco-friendly packaging brands that cater to diverse requirements. Among them are Armour Wrap, the revolutionary nano machine film, designed for exceptional performance and reduced waste. Postal Plus, a dedicated

range of e-commerce products, ensures safe and secure shipping in the digital age. Additionally, SimplyECO delivers packaging solutions that seamlessly combine performance with sustainability, contributing to a greener future.

As part of its relentless commitment to sustainability, Springpack has successfully maintained its carbon-neutral status. Through ongoing initiatives and responsible practices, the company strives to minimise its carbon footprint and actively contribute to global environmental preservation efforts.

With the completion of this relocation, Springpack is well-positioned to elevate its service offerings to new heights. The expanded warehouse capacity, sustainable focus, and emphasis on workplace well-being underscore Springpack's commitment to delivering innovative, eco-friendly packaging solutions while exceeding customer expectations.

**Please see a video of the new 90,000 sq. ft. facility:**  
<https://www.youtube.com/watch?v=3beXilAylyc>

**For more information about Springpack and its comprehensive range of sustainable packaging solutions, please visit: [www.springpack.co.uk](http://www.springpack.co.uk) or email: [enquiries@springpack.co.uk](mailto:enquiries@springpack.co.uk).**



# Working Smarter, Not Harder: Aicomp & Esko's CAD ERP Solution for Packaging Industry

**In today's highly competitive business environment, companies are always looking for ways to streamline their processes and boost productivity.**

Aicomp and Esko have formed a partnership to create integrated solutions for packaging manufacturers between Esko's CAD Suite and Aicomp's ERP software solutions. The goal is to develop best practices for enhancing the design and quotation processes, both in time and with accuracy of data.

As part of this initiative, they developed a standard CAD integration solution for manufacturers. Several live projects are currently utilising the new integration approach.

We spoke to Matthias Waltz and Karl Harvey from Aicomp who explained integration's key features and benefits.

**"Karl, how does the CAD integration solution simplify the maintenance and alignment of data across the different systems?"**

One key advantage of this solution is that it eliminates the need to re-key data, reducing the



**Karl Harvey, General Manager, Aicomp UK**

potential for errors and saving time. This can be particularly valuable in complex design projects where accuracy is critical.

Furthermore, the solution reduces the number of sets of master data, which can greatly simplify the process of maintaining and aligning data across different systems.

**"Karl, can you explain how processes are improved through integration?"**

For standard products following FEFCO or ECMA standards, the quotation process can be automated without the need for designer intervention as these standards can be run automatically with results being returned to SAP without the need of any user intervention.

The harmonisation of master data throughout the process enables streamlined workflows, saving



**Matthias Waltz, Head of Development, Aicomp**

time and effort on standard products and allowing designers to focus on complex design tasks.

The CAD integration streamlines the design process, automating quotations, reducing manual data entry, improving collaboration, and minimising errors. These efficiencies contribute to increased productivity and potentially improved profitability for businesses in the packaging industry.

**"Matthias, can you explain how the integration works and how to harmonise the data between ERP and CAD?"**

The solution enables project-level management of customer details, material descriptions, quantities, and project status. At the OneUp level, ARD file information for single product design (FEFCO/ECMA types, size, board ID, scores, print requirements) can be managed. The MultiUp level handles MFG file information for production sheet designs (sheet sizes, trims, number up on sheet). SAP is used to capture product style, sizes, board ID, and related data, while CAD creates product drawings, scores, and sheet size for layout optimisation. Data is integrated back to SAP, and an optional 'Review Request' ensures designer verification before returning details to SAP.

**"Matthias, what is the typical process flow for a new inquiry?"**

We can start a new product configuration process within SAP. It begins with entering product details in the 'Specification in progress' status, allowing for saving and later completion. Upon entering all details, the status changes to 'Ready for design', initiating integration. When the design request is delivered to CAD, SAP's status updates to 'In Design'. Esko's Automation Engine calculates OneUp and MultiUps, which may undergo designer review. Upon completion, the data is released back to SAP, triggering a background configuration update to change the status to 'Designed'. This leads to the generation of a sales document with a configuration, enabling sales reps to assess and conduct costing and pricing. Subsequently, a quotation can be provided to the customer.

In conclusion, the CAD integration is an important tool for designers and businesses seeking to optimise their design processes and increase productivity.

**To learn more about CAD integration and other related topics, you can register for on-demand access to all recordings and the latest updates on: [summit.aicomp.com](http://summit.aicomp.com)**



# CCL acquires Pouch production from Capri-Sun Group



- A binding agreement was signed today to acquire Pouch Partners s.r.l. Italy ('Pouch Partners') from Pouch Partners AG Switzerland
- Highly-specialized, gravure printed and laminated, flexible film materials for pouch forming, including recyclable solutions
- CCL adds on pouches as an adjacent technology to the core label and sleeve decorating technologies

CCL Industries, a world leader in specialty label, security and packaging solutions, announced it has signed a binding agreement today to acquire Pouch Partners s.r.l. Italy ('Pouch Partners') from Pouch Partners AG Switzerland, a company owned by Swiss headquartered Capri-Sun Group.

Pouch Partners, currently a provider of flexible laminates to the Capri Sun Group to make its iconic Capri Sun pouches, has been operating as a family owned business for the last 50 years and has been part of the Capri Sun Group since October 2017.

Guenther Birkner, President of CCL Label Food &

Beverage, commented, "Pouches are a packaging format we've looked at for a long time as an adjacency to our label and sleeve decorating technologies with a similar modus operandi. Our common customers see them as an interesting alternative to rigid containers with labels. Pouch Partners has highly focused, deep know-how for these materials, a solid foundation to enter this market. If our investment is successful in Europe, there could be interest to develop the product line globally, alongside our decorative label portfolio."

Since several years, there has been a lot of development and innovation in the packaging market with the goal to make packaging more reusable and recyclable to support a circular economy. One major trend has been to provide a refillable solution for the parent packaging. Typically, the parent packaging is a more premium bottle or container and the pouches provide the refill option.

The new business will then trade as CCL Specialty Pouches and become an integral part of CCL Label's Food & Beverage division.



"There are opportunities to utilize this technology in the Food & Beverage and the Home & Personal Care spaces and interesting potential to design new, sustainable, barrier films at our sister company Innovia Films who are experts in material science and develop the packaging materials of the future. We see many of our global brand customers turn to alternative packaging solutions to substitute packaging that has a high carbon footprint, pouches provide a lightweight solution," says Reinhard Streit, Vice President & Managing Director Food & Beverage Europe.

Pouches, made from flexible material, are designed to minimize the use of packaging materials. They are very light and reduce the ecological footprint during transportation and storage. They have an outstanding packaging-to-product ratio compared to rigid packaging types and the shape and the format can be adjusted to exactly fit the product volume resulting in material savings\*. CCL is working with its sustainability partners along the whole value chain with organizations like CELAB, Plastic



Recycler's Europe and RecyClass to make sure the pouches can and will be recycled.

"After the development of our recyclable pouch for Capri Sun with the help of Pouch Partners, it was time to focus again on our core business: Beverages. Divesting the business to CCL, a large and successful player in packaging, makes a lot of sense for the future. We are excited to continue to partner with CCL, now as a strategic customer, and will for sure benefit from their deep expertise, R&D resource and worldwide presence," said Roland Weening, CEO of the Capri Sun Group and Chairman of Pouch Partners AG.

<https://cclind.com>

\*Source: Flexible Packaging Europe (FPE)

## Soyang Europe Open Days

Our Open Days were a great success. Thank you to all who came to see us! And if you weren't able to visit last week, you're welcome to come another time.

**Please just give us a call on: 0161 765 3400 or email us on: [sales@soyang.co.uk](mailto:sales@soyang.co.uk) and we'd be more than happy to show you around our new demo room.**

A warm welcome awaits.



## Seamless high-resolution printing up to 34mm made possible with the Integra PP Razr 34

Where there is a need to print larger text, graphics or barcodes onto primary or secondary packaging without compromising on quality, thermal transfer (TTO) has usually been the go-to technology – it's clean, crisp and offers great adhesion to most porous and non-porous surfaces, providing the correct ribbon has been selected.

However, the new Integra PP Razr 34 from Rotech can guarantee excellent resolution printing up to 34mm high, creating a seamless, consistent print on the majority of packaging types.

### A need to reduce waste

In today's day and age, manufacturers are increasingly feeling the pressure to review their processes and look for ways that they can be made greener, and less wasteful. Coding and marking is no exception.

While TTO is a well-established, reliable



coding technology that will remain unchallenged for some applications i.e. printing entire ingredients declarations, cartridge-based alternatives, such as thermal inkjet (TIJ) and Piezo are very capable of matching the quality of print produced by thermal transfer, but with much less waste produced. There are no ribbons to contend with, just the ink needed to produce the desired format. These drop on demand printers are also a lot more compact, making them more energy-efficient and easier to integrate onto existing lines.

Such a system is the new Integra PP Razr 34. The impressive Piezo system is capable of printing excellent quality prints – up to 900dpi – at high speeds (up to 150m/min at 300dpi). Printing up to 34mm high, the Razr

eliminates the unwanted stitching of text and graphics from multiple printheads. The ink used offers excellent adhesion and resistance, making it ideal for printing onto shiny, non-porous surfaces, such as plastic or film.

Other advantages of the system include its increased uptime in comparison to TTO and continuous inkjet (CIJ) – it starts up and shuts down instantaneously and the bleeding of the ink system and changing of the cartridge can be done without stopping production.

### Ideal for replacing labels

The Integra PP Razr 34 is also proving a popular solution for direct printing onto packaging where labels would have previously been used. The razor-sharp print ensures that the codes remain readable by scanners – a crucial factor for those operation in logistics, where the shipping boxes need to be fully traced throughout their lifecycle.

To further ensure reliability, the Razr has two separate nozzle channels that can be controlled individually. This means that if one fails, the other ensures that the print quality remains consistent.

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<https://rotechmachines.com>





## 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. Its Head Office and manufacturing facility is based in Liphook Hampshire and these are supported by additional distribution facilities based in Leeds UK alongside 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.

Furthermore, AdCo also manufacture and supply UF resins, PVA Adhesives, PU Adhesives, Tapes and particularly the Pfohl Hand Held Glue Spreader. This is a popular product used by packaging companies as its lightweight and easy to use as the trough feed glue spreader applies an even coating to any large or small areas. Each unit comes complete with suspension stand and rubber rollers for PVA, UF



Resins, polyurethanes and water-based adhesives. It comes available in 75mm, 150mm and 200mm roller widths.

PVA Adhesives is one of the most versatile glues you can find. Whether you're working with wood, paper, textiles, bookbinding, construction, packaging, or just simply doing arts and crafts, PVA Adhesives are easy to use and because they dry clear it makes them the ideal choice for a wide range of projects. Additionally, they also perform well on porous surfaces such as wood, paper, and cardboard, with its strong and clear finish it's a popular choice amongst professionals and DIY enthusiasts alike.

As part of the company's commitment to offer its customers the correct solution for their needs, AdCo is continually investing in research and development along with new state of the art manufacturing equipment to ensure it continues



to meet the ever-changing needs of all types of industry.

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

**For more information, please see below:**  
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## Subsea Expo Review – Top Exhibitors

## Another success story for the 2023 Subsea Expo



Subsea Expo 2023 was hailed as a major success after more than 6,000 visitors attended the event in February.

'Into the Blue' was the 2023 Expo theme seeing thousands of delegates took the dive into the world's largest annual subsea exhibition and conference.

The key three-day industry event highlighted the potential of the Blue Economy across established and emerging underwater sectors, and how they must work together to maximise on the blue economic opportunities.

Over 150 exhibiting companies took part welcoming

an international audience who eagerly attended the many conferences from over 85 speakers from a variety of disciplines across subsea sectors including encompassing oil & gas, renewables, defence, aquaculture, subsea mining, and more. Topics such as current industry challenges and how to solve them were the main discussion points of the Expo.

The annual Subsea Expo Awards Dinner was also a highlight celebrating the standout achievements of subsea companies and individuals over the past 12 months. Consisting of a fabulous three-course meal, evening entertainment, and of course the awards, the prestigious ceremony was an unforgettable night for all.

This is our pick of the best exhibitors from this year's event, listed here in alphabetical order: J&S Subsea, Invest Aberdeen & Prevco. Further details can be found below.

**Subsea Expo 2024 will take place at P&J Live, Aberdeen from the 20th–22nd February 2024. For further information, visit: [www.subseexpo.com](http://www.subseexpo.com)**

## ESG and renewables energy journey opening doors for innovative J&S Subsea Limited

'Do it because you want to, not because you have to' – that's the mantra at J&S Subsea Limited where a focus on the company's ESG and renewable energy journey opening doors to exciting new opportunities and gaining recognition thanks to a recent award win.

Two years on from a management buyout of the subsea controls engineering division of SEA (part of Cohort plc), J+S Subsea Limited has just been named as this year's sustainability winner in the Decom Awards, and is on track to deliver turnover of £10 million in the coming years thanks to a significant uplevelling in its commitment to the circular economy.



**L-R: Kenny Taylor, Partner – Energy Infrastructure, Zero Waste Scotland, James Morris – Engineering Director at J&S Subsea & Sam Long, CEO, Decom Mission**

Central to the company's growth and net zero focus will be

the innovative Legacy Locker which facilitates the reuse, refurbishment, and recycling of subsea equipment. As well as unlocking capital tied up in unwanted equipment, the system also helps users to boost their environmental credentials by finding ways to reduce waste.

As part of its drive towards net zero, the ambitious Kintore-based company has been supported by Scottish Enterprise and is also participating in the Fit 4 Offshore Renewables (F4OR) catapult programme.

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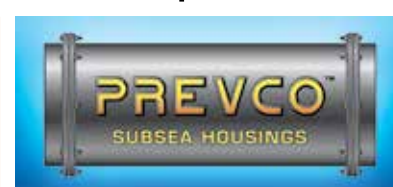
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## Prevco Heat Sink Pipes

Prevco have developed the use of Heat Sink Pipes to address the age-old problem of how to get heat out of a subsea enclosure. They work by using a thermodynamic working fluid, which is inside a sealed hollow thermally conductive tube, lined with a capillary structure or wick. This method can transmit thermal energy at rates of one hundred times faster than through solid conductors.

Heat pipes are essentially a closed evaporator-condenser system comprising sealed hollow tubes. When heat is applied to one end of the heat pipe, the highly volatile liquid in the wick evaporates and the gas fills the heat pipe hollow centre. This diffuses throughout its length where the external portion of the heat sink pipe or radiator, releases heat into the ambient water.



Condensation takes place at the point of heat transfer and capillary action within the wick returns the condensate to the evaporator (heat source) and completes the operating cycle. The PREVCO dual pipe design has a Copper Beryllium radiator exposed to sea water with approximately a ~250W capacity.

Many things have been tried in the past including



radial cooling fins on parts of the enclosure, active internal cooling pipes that pump the heat to an external exchanger, the use of different yet compatible metals to give better thermal conductivity and thermally coupling internal components to the tube and endcaps. The heat sink pipe method has proven to be much more effective, with a better energy-to-weight ratio and can be less expensive than some other methods. Note that these are also customisable to meet more exact requirements.

**Contact Prevco Subsea for more information at: [noleaks@prevco.com](mailto:noleaks@prevco.com).**

## Aberdeen: A region of innovation and opportunity

The Aberdeen City Region is a vibrant, entrepreneurial corner of Scotland, home to a unique mix of business opportunities and a wealth of skills and knowledge across a range of sectors. Not only is our region at the forefront of the energy transition, but it is also developing as a life sciences centre and home to food and drink brands enjoyed globally.

Renowned as a Global Energy Hub, Aberdeen City Region is investing heavily in net zero technologies and low carbon infrastructure. Projects such as the Aberdeen Hydrogen Hub will help position the North East of Scotland as a global leader in hydrogen production and distribution. The region has also been awarded



licensing for ScotWind, INTOG and the Moray East Offshore Wind Farm, all of which will significantly

improve regional investment and supply chain opportunities, as well as help decarbonise North Sea oil and gas operations.

Almost £16 billion of public and private infrastructure investment is due to be delivered across the North East before 2030. This is a region with big ambition and a global outlook, and Invest Aberdeen is on hand to welcome your business here.

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# Shiftconnector® platform allows for streamlined Industry 5.0 transition

In this issue of Industrial Process News, we are proud to announce that we have selected eschbach as our Industry 5.0 Software Company of the Month.

eschbach is a leading software developer for future-proofed smart plant process management (PPM), with its enterprise platform Shiftconnector®. The platform provides next-level team communication and information transfer, to ensure optimised safety and improved plant efficiency.

Founder and CEO, Andreas Eschbach, came up with brainchild: Shiftconnector® in 2005 originally developed as a shift handover solution for the process industry. eschbach has in the meantime, gained worldwide industry recognition for its award-winning PPM solution and is shown reverence by prominent manufacturing companies such as Bayer, DuPont, BASF and Roche.

Manufacturing cycles in plants can often take several days or even weeks to complete, necessitating seamless coordination and communication between teams to minimise disruptions.

"It is crucial for all team members to be informed and kept up-to-date at all times. This is where our PPM solution comes in," states Andreas Eschbach.

Scattered information in office tools or via verbal conversation translates into different information and knowledge levels and this is not a good fit for the



process landscape in the industry. "Shiftconnector® was developed specifically to address the needs of shop floor teams, in the chemical and pharmaceutical industries, where data from all converging points of manufacturing must be captured and linked transparently."

"With the concept of Industry 5.0, our enterprise platform helps to add human context to machine data. All incidents, changes, as well as batch and plant statuses of the ongoing operation are summarised in transparent, clear display and are available in real-time for all those involved in the shift operation."

Furthermore, this people-centric solution allows for connectivity among shift workers, ensuring transparency and traceability. The overarching goal is to take human-to-human communication and information management to the next level.

In addition to ensuring compliance and safety conditions, this solution also provides a single point of



truth (SPOT) around the use of manufacturing facilities. Through the SPOT principle, the PPM solution provides a universally valid database that makes live data available to all relevant roles and systems in plant operations. The digital recording of data not only makes the information accessible and transparent; it also leads to greater consistency. Therefore, the cloud-based software solution Shiftconnector® not only connects all relevant teams and departments but also improves communication between stakeholders in manufacturing at every level.

The basis of efficient plant processes lies in the extensive knowledge hidden in the plants – whether in the form of collected data or in the mindset of employees. However, the large number of necessary systems and interfaces today, make smooth information exchanges arduous.

"The key to success lies in interactive, digital communication processes right from the offset and a clearly structured exchange of knowledge," explains Andreas.

"Different processes, languages and even communication capabilities create enormous diversity in the process landscape. Smarter technologies are now taking hold,



where previous programming before lacked handling information inflows that do not conform to set formats. With our solution, it is possible to both visualise the data and optimise the plant in real time, providing consistency in information transfer."

Through constant development and evaluation of the software, eschbach is consistently adding new applications and modules to its system. Moreover, the strong interfaces found in all relevant systems in PPM, an app for mobile rounds and the integration of continuous improvement strategies have been part of developments for the last two years.

The future of the process industry requires solutions in which machines and artificial intelligence (AI) support employees, so that maximum efficiency and safety can be achieved within 24/7 shift operations.

"Machines or algorithms cannot react to changes or



knowledge in a user-friendly format – and as spontaneously as is required.

"With a Smart Search pilot project, customers reported that they were able to see improvements in terms of communication, collaboration and above all: knowledge management."

Recent advancements in AI have paved the way for software systems to provide intelligent solutions that can create significant benefits, as Andreas

Eschbach explains further, "Designing AI algorithms in a way that incorporates ethical considerations and provides capabilities to empower shop floor teams,

take responsibility for the safety of processes in plants. The goal, however, is to create a process environment in which humans remain in control, while being supported in the best feasible way by machines, digital communication and powerful cognitive assistance systems – in other words, machine-assisted humans," explains Andreas.

"In Shiftconnector® – AI acts like an assistant to production workers, not the other way round. Ultimately, decisions in production plants are made by humans but can be supported and enhanced by the knowledge of AI."



A major challenge for searching in the digital tool was that two different workers' descriptions for the same chain of events would look completely different. If we now consider that thousands of entries occur in operational communications, the problem becomes clear. With conventional means, searching for an existing event was like looking for a needle in a haystack. This is exactly where AI algorithms assist in finding solution descriptions. It allows shop floor teams to more efficiently and more importantly, use historical knowledge quickly to make predictive, informed decisions, thereby avoiding or more quickly resolving disruptions.

Eschbach's semantic search module: 'Smart Search,' provides manufacturing teams with process-relevant



to perform their jobs more effectively, is the basis. Additionally, eschbach considers the user's individual needs and preferences."

The aim of the AI function is to provide employees with the best possible support in the form of relevant information (and suggested solutions from the past).

"Our solution learns with us. With each input, Shiftconnector®, including Smart Search, gets even smarter and helps us do better. Everything is continuously improved. It is ultimately all about the people," affirms Andreas.

Eschbach's revolutionary human-based approach to digital transformation is transforming moving process manufacturing from Industry 4.0 to 5.0: reducing errors and accidents and ensuring consistent product quality, and maximised productivity.

For more information, please see the website below: [www.eschbach.com](http://www.eschbach.com)





# Lanes wins drainage contract for Derbyshire council

Drainage engineers from Lanes Group plc are carrying out important annual maintenance work for a Derbyshire council to ensure public spaces can be used and enjoyed by businesses, residents and visitors.

They have been working through a three-week programme of surface drainage asset cleaning for Erewash Borough Council at dozens of locations in towns and villages across the local authority area.



The planned preventative maintenance (PPM) work is carried out every year across public spaces and facilities owned and managed by the borough

council, including shopping precincts, leisure centres and car parks.

## Critical drainage assets

Drainage engineers from the Lanes Derby depot are carrying out the work.

Lanes Area Development Manager, Chris Norbury said, "We're very pleased to have been awarded this project through competitive tender to

support Erewash Borough Council's asset maintenance programme.

"We're using our jet vac tankers to clean a range of different drainage assets at 41 locations right across the borough, including slot drains, road drains, surface water gullies and silt traps."

"The drainage systems our teams are working on serve the busiest urban areas in the borough. They are critical for commercial activity and transport, so it's vital they're maintained to a high standard."

## Machining



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Lanes is the largest independent wastewater and drainage maintenance specialist in the UK. The Derby depot is one of more than 40 depots and service delivery hubs the company operates.

## Asset condition checks

Its teams are carrying out the work for the borough council during May and June, with much of it being done at weekends and during night shifts to minimise disruption for residents, businesses and road users.

Towns and villages they are working in include Ilkeston, Long Eaton, Sandiacre, and Breaston. Key sites include the marketplaces in Ilkeston and Long Eaton, and associated public car parks.

Where asset condition issues are encountered – for example, if there appears to be a difficult blockage – the borough council can authorise Lanes to carry out a CCTV drainage survey to establish their cause.

Chris Norbury said, "As Erewash borough council has an established PPM programme, these drainage assets are well looked after, so the risk of serious blockages or of drains being damaged is reduced."

"However, as Lanes is the UK's largest independent drainage specialist, if a problem is identified, whatever the size, complexity and urgency, we have the expertise, experience, and capacity to deal with it."

## Flood risk increase

Climate change is making the importance of drainage maintenance work like this more important than ever. Rainfall is becoming more volatile, with heavier downpours more probably throughout the year.

This can put extra strain on drainage systems, resulting in temporary pooling of water disrupting roads, pedestrian areas, and car parks. At worst, it can contribute to serious local flooding, causing damage to business premises and homes.

## Contact

T 0800 526488

<https://www.lanesfordrains.co.uk>





# Industrial market in transition: Denny Precision Ltd. relies on Surplex for machine auction

When closing a business, many challenges arise for the owner. It is wise to seek the help of a specialist for the sale of used machinery during a business closure. The English Engineering company, Denny Precision Ltd. also relied on experts: Over 100 machines are up for auction at the industrial auction platform Surplex closing on 28th June.



**One of the UK's largest auctions in 2023: closing down sale of Denny Precision Ltd. on Surplex.com (@Surplex)**

The industrial market in the United Kingdom is facing a series of unprecedented challenges. The consequences of Brexit are among the greatest difficulties. Trade barriers, customs duties, and supply chain issues are troubling companies. The procurement of raw materials and spare parts can become a bottleneck, while competitive pressure is steadily increasing.



**The FANUC Robodrill automated system, along with the other offered equipment, are in showroom condition and operational, highlighting the high quality of this auction (@Surplex)**

Added to this are geopolitical influences such as the aftermath of the pandemic and political tensions that exacerbate supply chain problems and drive-up prices. The rising energy costs add to the economic strains. For companies that are struggling to maintain their production capacity under these conditions, closing the business may be the only way out – especially if rising costs unsettle the buyer base or if a succession arrangement cannot be found. When a company is dissolved, disposing of the inventory is one of the hard steps to take.

#### The competent partner for used machinery

However, it is often difficult to know how to get the most out of buying or selling a machine. In this context, Surplex offers an excellent solution with its full-service offering to support interested parties in their purchase or sale of used machinery. Surplex is a globally active industrial auction house for trading in metal, wood, construction machinery, and other industries. With locations in 16 European countries, companies can count on competent support tailored precisely to the requirements and regulations of their region.

Antony Reed is the Surplex Country Manager for the UK. As an expert in the UK machinery trade, he emphasises the importance of the symbiosis between online trade and simultaneous full-service offer: "Surplex takes pride in being the fastest growing auction platform in the UK. This success is rooted in our unique understanding of our customers' needs and expectations. It is crucial for UK businesses to engage directly with local partners. Our platform enables



**The auction includes numerous 5-axis multi-pallet machining centres, as well as many last-generation STAR Swiss machines such as this CNC Swiss-type automatic lathe STAR SR-32JII type B (@Surplex)**

exactly that, providing utmost efficiency and trust."

In these turbulent times, companies need a reliable partner more than ever. A partner who safely navigates them on the rough sea of the used machinery market and who helps them to clear their production halls on time and cost-effectively.

#### Machine auction after business closure

Denny Precision Ltd., a respected company in metal

processing, has made a difficult decision given the increasingly demanding market situation: the closure of the company. Therefore, the inventory, including the operational and manufacturing equipment, is now being offered for sale through the industrial auction house Surplex.

Until 28/06/2023, you can browse and bid on the rich offer from Denny Precision Ltd. on Surplex.com. This sale includes many 5-axis multi-pallets machining centres, a FANUC

Robodrill automated system, many late-model STAR Swiss machines, and much more. The systems are in showroom condition and under power. An on-site inspection in Norwich is possible by arrangement. Interested parties can also browse through the factory hall via a virtual online 3D tour.

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# The best in British precision engineering services: Bespoke power screws, components and fittings

**K**ingston Engineering is a leading precision engineering company, providing razor-sharp engineering solutions to a wide range of applications, across diverse sectors, such as: aerospace, nuclear energy, oil & gas, medical, chemical, pharmaceutical, and manufacturing. Known the world over for its industry gold-standard products, Kingston Engineering has the expertise to provide precision solutions for even the most complex and challenging projects.

Founded in 1919, the company started out as Hull Motor Transport and Engineering Co and was focused on



manufacturing pistons and providing a cylinder grinding and generic engineering service. Over time, the company expanded and began to diversify into sawmilling and printing machine repairs until in 1924, the name changed to Kingston Engineering Co. The first manufacturing of screws commenced in 1930 and then during the Second World War, paused to support the war effort by manufacturing aircraft undercarriage components.



From supporting the war effort during World War Two, to the more recent COVID-19 pandemic, Kingston Engineering has once again provided integral support. In this case, a shaft system was provided for a major pharmaceutical company, for



use in the manufacturing process of one of the COVID-19 vaccinations. Furthermore, the company provided tailor-made critical power screw components to end-users in the food and water supply chains, during the pandemic.

Always moved with the times, the team at Kingston Engineering has always provided exceptional engineering services and set a high benchmark for customer service.

Kingston Engineering recently worked on a bespoke project for the Swedish Air Force, for example by providing bespoke screw thread for the Gripen Jet Fighter plane, as part of its detachable fuel probe.

Located in Hull, East Yorkshire the company conforms to British, European and American standards, including BS



EN ISO 9001: 2015 making it a popular choice across the globe. Specialising in the manufacturing of right hand/left hand, multi-start, cut thread power transmission screws and nuts, applicable to mechanical power transmission, the company also provide component reclamation, component enhancement, component repair and a corrosion prevention service.

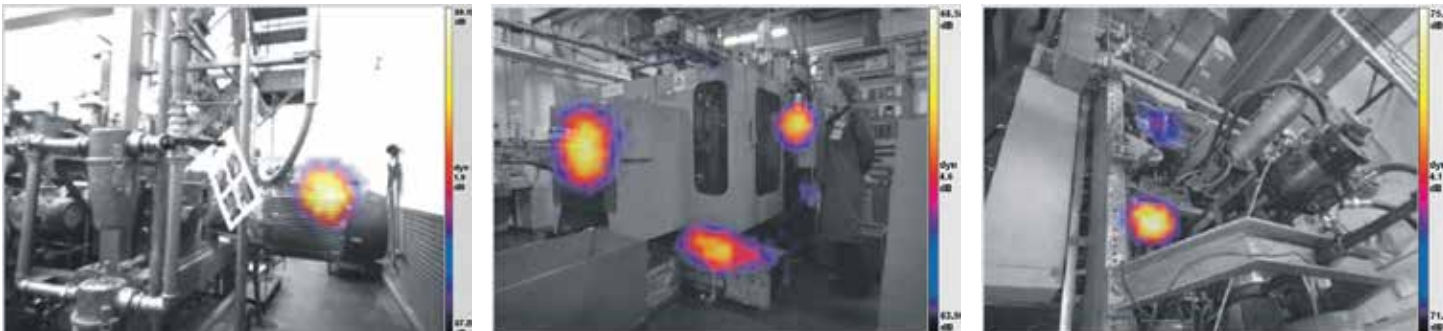
The company was recently called upon to manufacture 14 bespoke corrosion-resistant nuts and screws, made from super duplex stainless steel for a water treatment facility in Dubai, further cementing its industrial prowess in the field. Kingston Engineering has secured certain recognition from its one-hundred year-engineering tenure and is ready for the next hundred, through its cutting-edge equipment, in-house facilities and precision technologies.

With the current focus on sustainability, Kingston Engineering is happy to use donated worn components and machine parts, giving them a new lease of life on the factory floor, showing its upmost commitment to recycling and looking after the planet.

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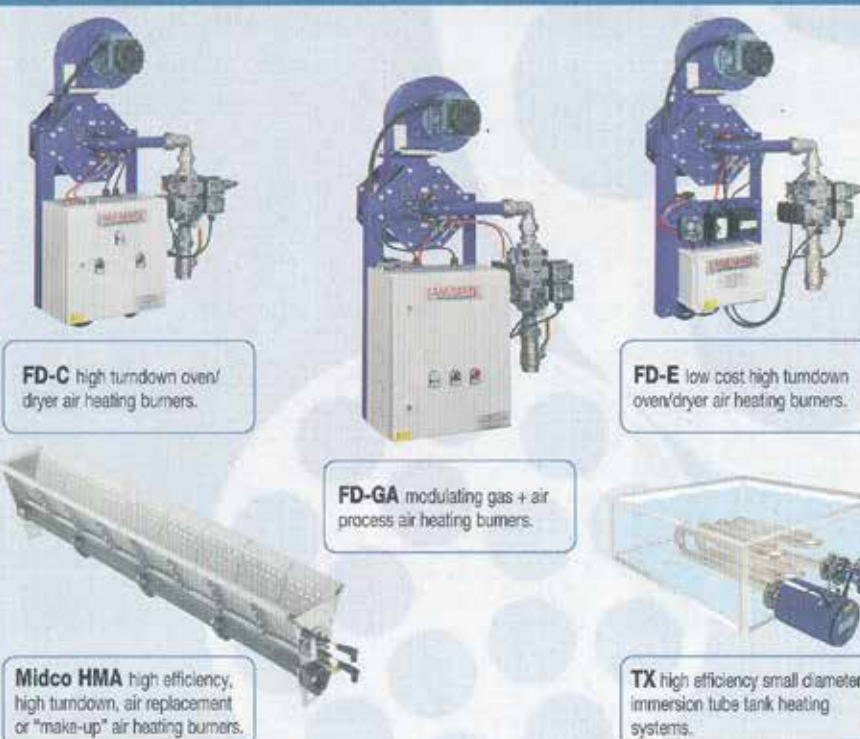
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## Health, Safety, Cleaning & Hygiene

# Cirrus Research spotlights Optimus+ Sound Level Meters

CIRRUS RESEARCH has recently showcased its Optimus+ Sound Level Meters – a series of powerful tools designed to cater to a wide range of industries. The Optimus+ range includes three models, each with unique capabilities and features, enabling users to measure and monitor noise effectively.

The entry-level model, Optimus+ Yellow, provides essential noise data and measures sound levels in decibels (dB). It offers A and C frequency weightings for general noise

assessments and is perfect for basic noise level measurements, as well as meeting regulatory requirements. It also comes with simple operation and a user-friendly interface, fast, slow, and impulse time weighting.

For more advanced noise assessments, the Optimus+ Red model is an ideal solution. With its data logging and real-time frequency analysis features, it enables users to identify and address specific noise issues. This model is suitable for industries such as construction, entertainment,

and manufacturing. It offers 1:1 real-time octave band analysis, voice tagging for easy identification of measurements, and the measurement of LAeq, LCPeak, LCEq, and LAFmax.

The Optimus+ Green model is the most sophisticated in the series, with capabilities for environmental noise monitoring and advanced analysis. It is perfect for long-term noise measurement projects in industries such as mining, transportation, and urban planning. The model offers advanced environmental noise

parameters, noise recording and 1:1 and 1:3 real-time octave and third-octave band analysis.

Cirrus Research's Optimus+ Sound Level Meters provide comprehensive solutions for industries with varying noise measurement and monitoring requirements. The range is equipped with state-of-the-art features and capabilities, enabling users to select the model that best suits their specific needs.

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



## Trace Heated 'v' Tepid Water

When handling hazardous materials in factories, laboratories, or other workplaces, there's a lot of factors to consider in assuring personnel safety, with much of industry still assuming that a trace heated shower will deliver tepid water this is simply not the case. Trace heating only protects the shower from freezing.



"The argument over the pros and cons of whether or not to install heated water safety showers has really run its course," says Janet Waine, managing director of Aqua Safety Showers International.

"It is no longer an option to give your workforce cold water safety showers direct from the mains as this will undoubtedly exacerbate injuries causing further unnecessary harm and pain. Supplying tepid water is vital and if your safety showers don't meet industry standards, you may be setting a dangerous trap for your workers and a costly liability bill for your company.

"A tank shower is possibly the most effective solution to ensure tepid water is guaranteed as by the very nature of being able to store water means operationally it is not affected by interrupted or low water pressure. Regardless of ambient or incoming water temperatures, the shower will deliver a guaranteed 15 minutes of tepid water at 76 litres per minute as recommended by ANSI because the stored water can be effectively managed.

**Aqua Safety Showers International Ltd is offering no obligation help and advice for companies both large and small on how to operate within the latest ANSI Z358.1-2014 recommendations. Please visit: [www.aqua-safety.com](http://www.aqua-safety.com) for contact details and more information.**

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## Industrial Process Technologies

### Introducing ChronoHub

Coresystems, a leading provider of innovative business and field service management solutions, is introducing ChronoHub, its new time tracking and workforce management platform. ChronoHub simplifies time tracking and attendance management by eliminating the need for paper-based timesheets and manual approval processes. It offers a comprehensive overview of recorded times, enabling users to track and record hours manually or automatically.



Designed with the modern workforce in mind, ChronoHub provides a range of features to enhance productivity and resource optimisation. Its streamlined time tracking capabilities serve as a hub for all time-related matters, while allowing integration with existing enterprise solutions and offering a modern user interface.

"At Coresystems, we understand the challenges businesses face in managing their workforce efficiently," says Jean-Thomas Célette, CEO of Coresystems. "With the launch of ChronoHub, we aim to simplify time tracking and workforce management processes, empowering organisations to focus on strategic initiatives and achieve greater operational success."

"ChronoHub offers a unique level of flexibility and integration capabilities that sets it apart from other time tracking solutions. With our platform, businesses have the freedom to seamlessly integrate with physical time tracking systems or maintain effort recording in their call centre or project management software for specific teams, while still centralising all the data within ChronoHub," said Cyril Roth, Product Owner at Coresystems.

To learn more about ChronoHub and its features, please visit: <https://www.coresystems.ch/en/solutions/chronohub>

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# Oliver Valves offer ball valves for hydrogen transportation and refuelling applications

In this issue of Industrial Process News, we have selected Oliver Valves as our Instrumentation Valve Manufacturer Company of the Month.

Oliver Valves are a globally-recognised manufacturer of precision valves for the oil, gas, industrial processing, LNG and petrochemical industries, offering an extensive product portfolio including: ball, check, gate, needle, DBB valves for topside, pipeline, subsea, and hydrogen & carbon capture applications. With full-service capabilities, the company can supply valves globally with regionalised, customer support.

Founded over forty-four years ago, in 1979 by Michael Oliver, Oliver Valves is expertly placed to offer market-leading products. A further diversification of the company led to the further formation of Oliver Valvetek (subsea valves 1995), Oliver Twinsafe Valves (pipeline valves 2000) and Oliver Hydcovalves (decarbonisation valves 2022.)

From the UK Head Office, Oliver Valves runs four manufacturing facilities on-site, its expert engineering sales office and world-renowned Research & Development Centre. Furthermore, with an extensive global network of distributors, Engineering sales offices in Dubai, UAE and Kuala Lumpur, Malaysia, the company is poised for streamlined services across many continents.

We spoke to Justin Smith, marketing manager, to find out more about the latest, exclusive products from Oliver valves, "High precision engineering and quality sourced materials provide assurances of our core value: 'Reliability Under Pressure.' We have a dedicated and state-of-the-art research and development centre that



focuses on innovating next generational valves. The latest developments include zero leakage ball valves for hydrogen application that have been qualified using helium as the test media and remained bubble-tight even after 1,200 cycles."

"Our ball valves are a premium solution for hydrogen fuel systems: designed for hydrogen transportation and refuelling applications, more specifically for operators, engineers, and EPC's in hydrogen storage, transportation, and refuelling. We pride ourselves on being ahead of the curve and the first 1/2" full bore transportation ball valve was rigorously tested and certified



by TÜV, Germany using 99.9% hydrogen – a fantastic industry-first!"

"Pertaining to safety, the hydrogen fuelling and transportation ball valves are tested to over 100,000 operative cycles, in compliance accordance with ISO 19880-3 and ISO 15848-1."

"The compact size and full-bore design elements remove drop-in pressures, which speed-up the discharge and the valves can operate from -40°C to +85°C and at supercharged high-pressure rating up to 690 bar."

With industry experience spanning over forty-four years, the in-house project management team are used to working on complex large-scale projects across the globe. Maximising the expertise of the engineering division, production and R&D, the three departments work together to offer world-leading solutions, utilising the latest in R&D cutting-edge technology, such as: Co-ordinated Measuring Machine (CMM), Hyperbaric Chambers and Automated Pressure Testing facilities, to the forefront of meticulous valve manufacturing. From the most-extreme fluid and gaseous applications, the collaborative team are not fazed by any customised solution, proving that unique team-working is best industry practice.

Oliver Valves work in an optimised customer-centric fashion, with expert sales engineers offering consultancy advice on optimal valve application solutions. The engineers act as the main contact person throughout, guiding customers through each step of the process from Bill-of-Materials (BOMs) to General Arrangement (GA) drawings, providing clarity and reassurance.

Understanding the vital importance of customer communication, the in-house production team will contact you if there are any unforeseen issues and offer watertight ways forward. Having full traceability of material and components, gives Oliver Valves an edge over competitors, by streamlining the production schedule timeline.

Seen as the company's 'nerve centre' Oliver's Documentation Centre handle every



multi-faceted document relating to an order, and safely processes, records, and stores all of this data securely. Stringent and audited processes are in place, this helps to keep customers abreast of all developments pertaining to their orders.

Oliver Valves has been expertly shipping valves across the world by land, air and sea for over forty years. The despatch team are primed to provide customers with all shipping timetables, delivery schedules and with in-depth



knowledge of the latest Customs & Excise legislation, the customer is kept in the loop with all developments. Through regular freight forwarder and production factory updates, the Oliver Valves despatch team stays on the move with your precious order.

"We run a tight ship throughout the company, seeking the best customer experience for all our valued clients. At the heart of the company is the Research & Development



Centre, always fine-tuned to valve engineering best practice and industry distinction. The on-site testing capabilities across automation systems, fire and cryogenic testing, pressure and fire, has allowed the researchers to customise engineering solutions, gain traction in production innovation and meet even the tightest customer schedule."

"We are delighted that Oliver Hydcovalves joined the Oliver Family in 2022, to continue our vital work in hydrogen and the carbon capture market."

"Looking ahead to the future, we're focused on some really exciting projects which include pipeline valves for hydrogen, zero leakage, low emissions, high temperature and low temperature applications. Also, as the world transitions to new and much greener renewable energy with the aim of achieving global net zero emission targets, we continue to massively invest in the qualification testing and manufacture of 'next generation' valves for hydrogen and carbon capture applications," concludes Justin.

For more information on this trailblazing company, please see the details below:  
T +44 (0)1565 632636  
sales@valves.co.uk  
www.valves.co.uk  
<https://www.valves.co.uk/hydcovalves/hydrogen-fueling-valves>





# Simply more precise: Globally leading stainless steel

**In this issue of Industrial Process News, we would like to congratulate NIRONIT Edelstahl GmbH & Co KG on being selected as our Stainless Steel Company of the Year.**

NIRONIT is busy celebrating a double celebration – a recent 40th anniversary in the industry and the second-best annual financial report in the company's history, this financial year. It has been an exciting year, with the integration of new machines and gradual conversions to more efficient systems, including a new water treatment plant. Now, with new experienced staff joining the NIRONIT family, the company is set for another productive 40 years in the industry. We spoke to NIRONIT'S Head of Global Sales: Christoph Werth, to find out more, "Due to numerous large projects that we cut on our high-quality waterjet systems; the utilisation in our production remains high. In order to expand our future portfolio in the area of cutting options, a new laser system was ordered this month. This will allow us to cut faster with consistent quality using a 24kW fiber laser. Our plasma machine was further upgraded with a new bridge, new cutting heads and a larger table.

We are also delighted to welcome Mrs. Yishan Hsu, as a senior member to our sales team. She will be responsible for the Asian market and will continue to support me, for the UK market.

To consolidate our sales team, we have streamlined our digital processing in production, allowing all data to be recorded and processed via labels.



Furthermore, a new colour stamp facilities the marking of all the finished components. Finally, we are delighted to announce the arrival of our newly-improved website, with user-friendly navigation tabs for an optimal customer digital experience."

NIRONIT has been an unparalleled stainless-steel manufacturer for over 40 years, supplying to a wide range of industries from: energy, chemical, shipbuilding, pump construction to agriculture.

With the company headquarters in Lower Saxony, Rosengarten, production facilities in Bremen and warehouses in Lower Saxony, Prinzhöfte; the company holds an unrivalled stock of stainless-steel plates and coiled sheets up to 14,000mm. NIRONIT has an extensive stock collection for any steel project: from retail steel fabrication to railway networks and the recent merger with FERRIT-Blechservice GmbH & Co. KG has statistically increased the company's stainless-steel production capacity. Offering a truly first-rate service, NIRONIT is able to offer standard-sized or bespoke-ordered products.



As stainless-steel experts, with over 40 year's international trade experience, NIRONIT specialise in special grades, coils, plates and cuttings. With an on-site warehouse and service centre with waterjet, plasma, saw, bevelling machine and deburring machine, the team can deliver stock quickly and have expertise with customs processing across four continents: Europe, Asia, Africa and South America.

NIRONIT stocks all classic stainless steel such as: 304/304L, 316L, 316Ti and 321, as well as numerous special grades that are used in various apparatus and projects. There has been a recent addition of new cutting-edge machinery to enhance manufacturing and production as Christoph explains further, "We have a new deburring & levelling machine by ARKU. The Edgebreaker is universally applicable, with unique edge rounding up to 2.0mm and meets surface finishing in three steps: deburring, rounding the edges and grinding."

"The Flatmaster has a powerful, unrivalled performance: with servo-hydraulic straightening



gap control, hydraulic overload protection to protect drive and straightening unit, allowing reproducible straightening results and has met requirements for flatness. From small to thick: material thicknesses 0.5mm to 60mm and covers and covers most diverse parts: maximum passage widths from 800mm to 1,250mm."

"ARKU was founded in 1928 and is world leading with its high-capacity, precision levellers, deburring and edge rounding machinery. NIRONIT has always used premium deburring machinery,



allowing consistent, exceptional quality for customers all around the world."

The disadvantages to using Laser or plasma cutting, is that it can leave residue on the edges, compromising the downstream processing. Parts with burrs are complex to assemble and may not fit securely into welding fixtures. Deburring removes these small imperfections: burrs and with laser cutting, the burr will be removed from the part. Automated deburring has many benefits: removing residue, rounding sharp edges after punching or cutting, surface finishing and removing oxide layers left from laser cutting with oxygen. The oxide layer can cause unclean weld seams and corrosion, if not removed.

There are further health and safety risks with unrounded edges: causing potential injuries and logistically: more challenging to apply paint further down the line. Having deburred sheet metal parts are a guaranteed sign of high quality and give an edge over competitors.



"Looking to the short-term future, we are excited about the expansion of our warehouse to an average of 3000T, implementation of the laser system and obtaining an environmental certificate. More long-term, we are focused on the expansion of our production possibilities with further machines.

At NIRONIT, are very proud to receive this stainless-steel Company of the Year award. In the last few



years, we have invested a lot of blood, sweat and tears in the British market, in order to be able to be a good supplier to our long-standing customers, even after Brexit. This effort is paying off, the UK is now one of our largest sales markets outside Germany and is more important than ever for our company. We will continue to invest a lot in order to remain a reliable and trustworthy partner for our customers in the future," concludes Christoph.

**For more information or to see the full stainless-steel range, please see below:**

**T +49 4108 4301-11**  
**christopher.werth@nironit.de**  
**www.nironit.de**





# Revolutionising precision and productivity: Charles Day and sister company The Laser Cutting Co reveal their latest machine investments

In this issue of Industrial Process News, we are pleased to feature Charles Day Steels as our Specialist Profile Cutting Company of the Month.

Established in 1976, Charles Day maintains a program of continuous investment, providing access to the latest technologies for companies choosing to outsource profile cutting. From drawing to delivery Charles Day deliver value through capability, speed, and accuracy.

Charles Day Steels has unveiled its newest investment: a state-of-the-art Waterjet Sweden Beveljet 60 Machine.

Established over four decades ago in the heart of Sheffield, the city of steel, Charles Day Steels are proud to unveil their brand-new, revolutionary new machine investment – the Waterjet Sweden Beveljet 60 cutting head combined with a 125hp pump – providing unrivalled capabilities and lead



times for an exceptional service every time.

Now equipped with some of the most profound machinery available in both the laser cutting and metal profiling industries, complete with a full 5-axis, cutting pressures of up to 6,200 bar, and capable of both bevel and free form cutting, the Waterjet Sweden Beveljet 60 is extremely versatile; capable of cutting sheet metal in record lead times, at an extremely competitive price.

With typical waterjet pumps on average only producing 3,000-4,000 bar of cutting pressure from 50-60hp, this new pump is capable of producing 6,200 bar of cutting pressure through two heads simultaneously using a massive 125hp. This



provides customers with an incredible time and cost-efficient waterjet cutting process. Charles Day is simply unrivalled in comparison to its competitors.

Charlie Day, grandson of the founder and Sales and Business Development Director at Charles Day, had this to say about their latest investment, "We are already experts in waterjet cutting and have been offering the service for over 20 years now, but the addition of the Beveljet60 cutting head opens a whole new market for us. Not only can we provide large 2D parts on a quick turnaround, but now we can offer large 3D parts, again at a dramatically increased cut speed, at a competitive price."

Committed to consistent innovation, investment,



and self-improvement for the ultimate benefit and simplicity of their clients, Charles Day is extremely proud of their latest investment. This increase in efficiency and capability, coupled with their BSEN 1090 EXC4 accreditation, also allows them to comfortably service both the nuclear industry and the aerospace industry in accordance with ISO9100.

For more information regarding Charles Day and The Laser Cutting Co., their products, services, and more, please see below to get in touch today.

**T 0114 244 5544**  
**sales@daysteel.co.uk**  
**https://www.daysteel.co.uk**  
**Facebook: https://www.facebook.com/CharlesDayLtd**  
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**LinkedIn: https://www.linkedin.com/company/charles-day-ltd**

## The Laser Cutting Co



The Laser Cutting Co Ltd is the sister company to Charles Day and since 1981 has provided quality, customer-focused, sub-contract laser cutting service capable of cutting square and round hollow section tubes, structural open sections, beams, and flat/bent metal components to customers throughout the UK.

The Laser Cutting Co. is proud to unveil its brand-new, revolutionary machine investment – the TruLaser Tube 7000 Fibre Machine – providing unrivalled capabilities and lead times for exceptional service every time.

Now equipped with some of the most profound machinery available in both the laser cutting and metal profiling industries, the TruLaser Tube 7000 Fibre machine will more than double The Laser Cutting Co's existing tube laser cutting capacity; providing competitive pricing and exceptional lead times. Not only this, but this latest investment also adds the additional capacity for rapid processing of large section parts of up to 254mm

outside diameter. Extremely versatile, this machinery offers laser power of up to 6kW for material thickness of up to 15mm and features Bevel Cut and RapidCut technology, Seamline Tube Detection, as well as copper and brass cutting packages.

With over 40 years of industry experience, The Laser Cutting Co. is one of the first in the UK to invest in the TruLaser Tube 7000 Fibre Machine. Consistently investing in only the very best technology, The Laser Cutting Co is able to provide bespoke high-volume production confidently and reliably. Offering an all-in-one service, their production capacity, capabilities, lead times, and cost-efficiency are simply unrivalled.

Perfect for a range of applications, including mechanical and apparatus engineering, agricultural machinery, furniture, and much more, this latest investment secures The Laser Cutting Co. as a market leader in the laser cutting industry.

Additional machine specifications include:  
 Max outside part diameter – 254mm  
 Max mild steel thickness – 15mm  
 Max stainless steel thickness – 12mm



- Max outside part diameter – 254mm
- Max mild steel thickness – 15mm
- Max stainless steel thickness – 12mm

Charlie Day, Sales and Business Development Director at The Laser Cutting Co. had this to say about their latest investment, "There is never a time where we're not considering what the next technology we invest in should be. In providing customers with access to the very latest in cutting technology, we are able to provide a high-quality, efficient, and reliable subcontract-cutting service at a competitive price. Coupled with our existing tube laser and additional services such as flowdrilling and pressing, we provide a very strong service offering to the market."

The Laser Cutting Co. is extremely proud of its latest investment, and can't wait to unveil its record-leading capacities and capabilities to the world. Annually reinvesting into only the very best technology, this latest addition to their industry-defining suite of metal cutting and profiling machinery is a major step forward for the business.

James Day, Operations Director and also the grandson of Charles Day, had this to say about their newest development... "With the addition of this second tube laser, our capacity is more than doubled. Not only does this obviously improve customers' lead times for parts without compromising quality, but it provides unrivalled redundancy and reliability for our customers."

For more information regarding Charles Day and The Laser Cutting Co., their products, services, and more, please see below to get in touch today.

**Contact**  
**T 0114 242 0101**  
**sales@lasercutting.co.uk**  
**www.lasercutting.co.uk**  
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**LinkedIn: https://uk.linkedin.com/company/the-laser-cutting-co**



# Providing solutions for your force or torque measurement applications

**interface**  
www.interface.uk.com

**Interface Force is an internationally recognised brand and decades of experience have gone into making Interface manufactured load cells the benchmark for thousands of users around the world, and Interface Force Measurements was established in 1996 by Neil Johnstone.**

Based in Crowthorn, Berkshire, Interface Force distributes to the whole of the UK & Ireland, but also overseas, especially into Turkey, Greece and the Middle East. The company is a primary distributor for Load Cells manufactured by Arizona-based Interface Inc., and it also supplies their Torque Transducers, associated electronics, multi-access Load Cells and the XSensor Pressure Mapping systems.

The global Interface Inc. is represented by a large network of distributors outside of the US, and they have requested products that are designed and manufactured in metric, with the precision and accuracy of all Interface products. These products are designed for an international buyer and user, and all specifications are in metric specs, a global standard for force measurement products.

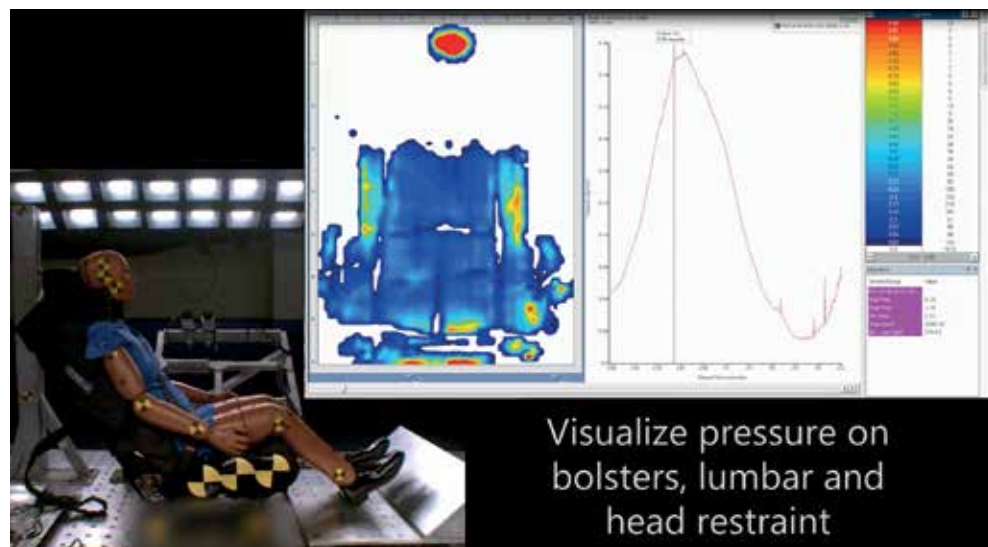
Interface Force work mainly with aerospace, automotive, and motorsport companies, and Business Development Manager Tony Rokins told us, "We

work closely with companies which are undertaking research into product development, and so this includes universities and also medical companies who need load cells for weighing saline bags – we have a very wide and varied client portfolio."

In this crowded industry, Interface load cells and torque sensors have a hard-won reputation for reliable, accurate and repeatable test results. The range of pressure sensors and pressure mapping systems from industry leaders GP50 and XSensor back this reputation.

Tony continued, "With regards to force measurement, our load cells are preferred by aerospace companies because they are highly accurate, and the results are very repeatable. Also, the devices themselves are extremely reliable and so they are looked on very favourably by both automotive and aerospace manufacturers in particular."

Interface Force is currently re-launching its XSensor High Speed Pressure Mapping System – the company offers a range of pressure mapping systems that can be applied to anything from impact testing to pressure testing tires, runways, beds, seats and much more. The XSensor system is the first system design to allow product designers and safety testing engineers to see, record and evaluate the distribution of force



from high-speed impacts on safety equipment such as helmets and body armour.

The system is particularly popular with automotive and aerospace seating manufacturers as evaluating the performance of helmets and other protective equipment designed to prevent injury requires detailed understanding of the pressure distribution on the body surface during dynamic impacts. Xsensor's high speed HS Impact system combined with the thin conformable sensors allows customers to accurately

measure those pressures and evaluate how different design configurations affect pressure distribution on impact.

In addition to this, the system is also used by manufacturers of office seating, companies that develop seating for the home, and bed manufacturers.

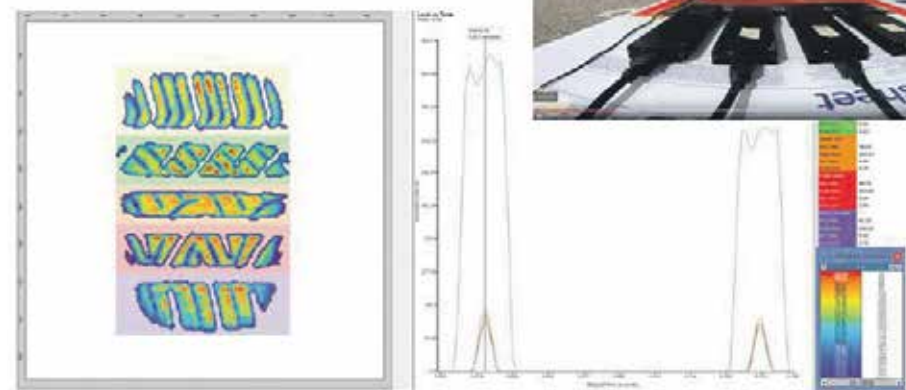
In spite of its success in the industry, Interface Force is very much looking to future development. Tony informed us, "We are building new Applications which are based around renewable energy, and we are also developing Cloud-based, Wifi and Bluetooth data acquisitions by making our devices wireless. This would mean customers being able to collect data from anywhere in the world via an App."

This ever-growing comprehensive range of indicators, signal amplifiers, data loggers and wireless transmitters has been designed to complement the extensive range of load cells, torque transducers and pressure sensors, and the range has developed to ensure that customers have access to the most accurate, up-to-date, and cost-effective devices available.

Another new development is in the Airport environment, where Interface Force have begun to provide wireless monitoring of equipment on, for example, luggage carousels, and this product among many others have helped Interface Force to have a very successful past 12 months especially.

Interface Force's product reliability is second to none and all of its product lines have to match this standard before ever being recommended to customers. Interface is the world's trusted leader in technology, design and manufacturing of force measurement solutions. Its clients include a "who's who" of so many industries, and the company's engineers around the world are empowered to create high-level tools and solutions that deliver consistent, high-quality performance.

**For more information:**  
T +44 (0)1344 776666  
info@interface.uk.com  
www.interfaceforce.co.uk





## Choosing AQMesh for fenceline monitoring

AQMesh has been long established as the most proven small sensor system for the air quality monitoring market. With an ever-increasing suite of measurement options and proven performance in the harshest environments, AQMesh is ideal for industrial applications.

The H2S, SO2, TVOC and PM sensors allow AQMesh to be used in a wide range of applications including construction, mining and oil & gas. AQMesh networks have been implemented across mining facilities in Southern Africa, Saudi Arabia and Australia, as well as oil & gas facilities in Europe, Central Asia and the Gulf region. Other applications include perimeter monitoring on energy from waste sites, residual emissions from flares and even volatile volcanic emissions in Iceland and Nicaragua.



A single AQMesh pod can measure up to 6 out of a possible 8 pollutant gases in various combinations, as well as PM, humidity, atmospheric pressure and noise in one small, compact easy-to-install unit. The solar pack offers autonomous continuous power all year round for an AQMesh pod and features smart connectivity with a mobile app for checking power output, viewing historical data and running diagnostics.

Customers across industrial applications

comment on how easy AQMesh is to use, from its quick and easy installation to its low maintenance requirements. Users also benefit from maximum uptime across their networks, thanks to AQMesh's robust hardware, wireless communications and the secure AQMeshData.net server. Remote diagnostics allow pods to easily reconnect themselves and continue to capture data if power is ever interrupted. Faults or failures can be detected, diagnosed and resolved swiftly and remotely, without the need to visit the equipment.

**For more information on how AQMesh can offer a solution to your sites monitoring requirements, contact us today:**  
T +44 (0)1789 777703  
info@aqmesh.com  
www.aqmesh.com

## Consultation service for challenging materials handling

Materials handling expert, Gough Engineering is launching a free consultation service for companies with challenging sieving, separation and screening applications. During its 80 years' experience in the field, the firm has developed a number of bespoke material handling systems for a multitude of industries. The new service will provide free screening advice from industry experts and access to Gough Engineering's in-house testing facility.

Gough Engineering produces a selection of off-the-shelf sieves, screens and separators from its manufacturing facility in Newcastle-under-Lyme, Staffordshire, including the Vibraflo® sieve and Vibrecon® separator.



However, the business also designs bespoke, tailored solutions for special requirements for materials handling and processing equipment.

Materials handling can be challenging due to the meticulous regulatory nature of many industry sectors. Quality checking is of the utmost importance, and ensuring that small particle and powdered

materials are screened effectively is a crucial part of many processes.

To provide the ability to understand product material behaviour, Gough's newly equipped trial facility uses a variety of screening and sieving machines.

**The consultation service is available to businesses with challenging materials handling processes. To book a call with one of the Gough Engineering team, please contact: +44 (0)1782 567770.**

**More information on Gough Engineering's range of materials handling equipment can be found at: www.goughengineering.com**



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## Handling, Storage & Logistics

### Treston BiOX: Wood-based bioplastic storage option

Treston introduces a sustainable and environmentally friendly solution for industrial storage areas with Treston BiOX. These wood-based bioplastic bins are a ground-breaking innovation, allowing industrial customers to make eco-conscious choices.

The carbon-neutral Treston BiOX bins are made from over 90% renewable wood-based material, derived from residue in the pulp production process, and cellulose fibres sourced from sustainably managed forests. Despite being environmentally friendly, the quality, appearance, and texture of these bins remain



unchanged compared to traditional plastic bins. Esa Siljander, CEO of Treston, expresses enthusiasm for providing carbon-neutral options to customers and emphasises Treston's commitment to high-quality, long-lasting solutions that minimise resource consumption. Treston aims to gradually offer eco-friendly alternatives to all fossil-based plastic products, with the ultimate goal of achieving a completely carbon-neutral workstation. The materials used in Treston BiOX bins are sourced from UPM, a leading global forest industry composite manufacturer, as well as Woody, an innovative Finnish startup. This collaboration marks the first

development of wood-based plastic products for industrial use by both companies. The newly launched BiOX shelf bins are just the beginning, as Treston plans to introduce additional storage bin options and solutions in the future. The Treston BiOX bins are recycling-ready and can be ordered today. For more information, please contact Treston below.

**Contact**  
**T 01635 521521**  
**salesuk@treston.com**  
**www.treston.com**  
**https://www.linkedin.com/company/treston**

### Jungheinrich celebrates double success at IFOY 2023

The International Intralogistics and Forklift Truck of the Year (IFOY) Awards 2023 ceremony took place recently in Dortmund, Germany. Jungheinrich triumphed in a strong field of 23 nominations, with two products collecting awards. Both the ultra-compact



PowerCube storage system and the innovative addedVIEW fork camera with barcode scanning received much-coveted awards in their respective categories. Jungheinrich PowerCube is an automated compact container warehouse for particularly compact storage and order picking of small parts as well as unit loads. It won in the 'Intralogistics Robots' category. The modular racking system

efficient tote storage in a very small area. The addedVIEW fork camera from Jungheinrich triumphed in the 'Special of the Year' category. With its ability to read barcodes directly at the storage location and compare them with the specifications of the warehouse management system, the camera significantly minimises storage and retrieval errors, increasing efficiency and safety in the warehouse. Receipting is carried out in a particularly simple and ergonomic way via a steering wheel button.

**salesenquiries@jungheinrich.co.uk**  
**www.jungheinrich.co.uk**

### Tecmach: Scissor Lift Manufacturers

Since 1988, Tecmach have been supplying lifting solutions for every conceivable lifting application. Supplying lifts used in loading and stacking workstations, through clay pigeon trap trajectory variation devices to military radome lifting devices, Tecmach have provided solutions.

Although the unusual applications to solve novel problems such as hiding projectors below parapets when not in use on listed buildings, or lifting a Wurlitzer organ console to concert hall stage level the same technology solves lifting problems in more mundane but equally important everyday applications.

Lift tables are installed from delivery of raw materials, through to machine infeeds, then assembly and product stacking through to the loading docks and catwalk lifts. There is a Tecmach scissor lift to meet your need whatever it is.

The choice of lift include the low profile lift tables with a closed height of 80mm where a pallet can be loaded directly from a pallet truck, and are often used for machine infeeds for instance loading 25kg sacks into hoppers.

Larger product being taken through higher level changes in application such as pallets and roll cage move to mezzanine floors or bringing 1,100 litre waste bins from the bin store to the street level, will employ double scissor lifts often supplied with shafts and gates.

Wherever there is a level change and an need to move an object a Tecmach scissor lift is the solution, and with an experienced engineering sales team with in house design facilities Tecmach can offer you the solution to your problems.

**www.tecmach.co.uk**



### Leading UK manufacturer of roller shutters and doors

dP Doors and Shutters Ltd is a leading UK manufacturer of Industrial doors for a range of industries including, Food Processing, Manufacturing, Commercial and Construction. Established in 1997 by 2 people, the company boasts an impressive collective 300 years staff experience from within the Industrial door manufacturing, installation, repairs and maintenance industry.

The Sheffield-based company has grown substantially over the years, to incorporate a growing staff of 36 employees from its 15,000 sq. ft factory and has now achieved the coveted ISO 9001: 2015 status.

Renowned for its expertise, dP Doors and Shutters Ltd. manufactures and installs industrial doors, to customers throughout the UK.

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What sets dP Doors and Shutters apart from its competitors, is its exceptional customer service, leading by example and offering best practice. With 24/7 customer service and quick response times, the team aims to be on-site within four working hours from time of call out.

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# Futureproofing against shifting methane legislation



finally turned a corner in 2023, with the first EU-wide legislation aimed at cutting methane emissions being passed by MEPs<sup>3</sup>. The proposal, which was voted through with 114 votes in favour, 15 against and 3 abstentions, will aim to slash direct methane emissions from the oil, gas, fossil gas and coal sectors, with an extension to the petrochemicals industry also likely.

**With the EU parliament recently voting overwhelmingly in favour of reducing methane emissions in the energy sector, the crackdown on the second most impactful greenhouse gas has commenced. With more legislative shifts likely to follow, Mike White, Territory Manager UK & Ireland at QED Environmental Systems Ltd (pictured), discusses the importance of getting ahead of the curve in regards to emissions monitoring.**

While the main-focus of Europe's decarbonisation efforts seems to rest squarely on carbon dioxide (CO<sub>2</sub>), it would be fair to say that the impact of methane (CH<sub>4</sub>) is not as widely recognised, despite being significantly more potent at trapping heat in the atmosphere. On a 100-year timescale, methane's global warming potential (GWP) is 28 times greater than that of carbon dioxide, with this figure rising to 84 times that of its counterpart over a 20-year period<sup>1</sup>.

Here, the factor that keeps methane from taking the top spot as the greatest contributor to climate change is its lifespan, as it remains in the atmosphere for a much shorter period than carbon dioxide. However, this is not to say that its impact should be understated, particularly when its role as a local air pollutant and contributor to tropospheric ozone formation is brought into the equation.

#### Legislation gathers pace

Until recently, legislation surrounding methane emissions has lagged behind that of carbon dioxide, with recent research from *The Conversation*<sup>2</sup> indicating that just 13% of man-made global methane emissions are regulated by policies capable of controlling and preventing them. However, this looks to have

Perhaps most significantly, the legislation details the obligations to detect and repair methane leaks within these industries. From the date of entry into force of this regulation, operators have six months to submit a comprehensive leak detection and repair programme to the relevant national authorities, with MEPs strongly pushing the European Commission to double down on the frequency of leak detection and repair surveys. Here, operators will have just five days to repair or replace all components found to be dispersing the gas.

#### Looking to the future

While the passing of this legislation is already a significant development, it is important to recognise that this is merely the tip of the iceberg, and that the greatest clampdowns on methane emissions are likely to follow in the coming years. As part of the aforementioned proposal, MEPs also urged the European Commission to set a binding 2030 reduction target for methane emissions by 2025, spanning all relevant sectors. As part of this, member states will also be expected to set national reduction targets as part of ongoing energy and climate strategies, suggesting that this policy will be set into stone sooner rather than later.

Moreover, an earlier document<sup>4</sup> published by the European Commission in 2020 sets out a strategy for reducing methane emissions in the EU and may offer a clue as to what other developments may soon follow. The communication calls for robust leak detection and repair (LDAR) programmes for all fossil gas infrastructure – a change that has already come into play – but also for the energy, agricultural, waste, wastewater, biomethane and biogas industries.



If current developments are anything to go off, it would be fair to assume that the scope of legislation will soon expand to cover these. It should also be noted that the document makes reference to reporting via a three-tier framework as a cross-sectoral obligation. With this in mind, whether or not a business is currently affected by legislation, these factors suggest that it will be a matter of when, and not if, they will be.

#### Setting out a credible path

For any business likely to be affected by these changes, setting out a clear path to compliance will be key to avoiding falling foul of legislation. It is clear that establishing a comprehensive LDAR programme is the first logical step to getting a handle on methane emissions. However, integrating such a framework can often take time, so operators can benefit from seeking

expert consultation ahead of time, so as to alleviate any teething problems and ensure best practice before the legislative hammer strikes.

**To organise a consultation with our team, please contact: [enquiries@qedenv.co.uk](mailto:enquiries@qedenv.co.uk) or call: +44 (0)333 800 0088.**

1) [https://energy.ec.europa.eu/topics/oil-gas-and-coal/methane-emissions\\_en](https://energy.ec.europa.eu/topics/oil-gas-and-coal/methane-emissions_en)

2) <https://theconversation.com/methane-must-fall-to-slow-global-heating-but-only-13-of-emissions-are-actually-regulated-205941>

3) <https://www.europarl.europa.eu/news/pt/press-room/20230424IPR82039/meps-vote-to-boost-methane-emission-reductions-from-the-energy-sector#:~:text=The%20new%20legislation%2C%20adopted%20with,injected%20into%20the%20gas%20network>

4) <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A52020DC0663>

## Electrical & Electronics

### 24V DC UPS solution

Bicker Elektronik has introduced a new DC UPS solution for long-term backup applications. The 24V emergency power supply is equipped with the particularly safe and durable LiFePO<sub>4</sub> battery technology and offers backup times of up to 100 hours.



Consisting of the UPSI-2406D intelligent charging and control unit and the BP-LFP-13250S battery pack, the DC UPS solution is ideal for protecting embedded industrial PCs, controllers, drives, sensors, measuring systems, lighting and safety technology and many other applications. In the event of a power failure, voltage dip or flicker, system failures and data loss in safety-relevant applications can thus be effectively avoided. In addition, the new UPS management software 'UPScm' with cross-platform technology and intuitive user interface offers extensive functions for monitoring, parameterisation and messenger services.

The powerful LiFePO<sub>4</sub> battery pack BP-LFP-13250S with 330Wh enables backup times of up to 100 hours, for example for sensor applications or emergency lighting systems. The lithium iron phosphate battery technology (LiFePO<sub>4</sub>) convinces with over 6,000 charge and discharge cycles and an extended temperature range from -20 to +55°C. The high-performance battery management system (BMS) integrated into the battery pack to optimise service life and safety monitors and controls the complete charging and discharging process of each battery cell of the energy storage unit. The integrated cell balancing ensures a balanced and even charge of all cells so that the full capacity of the LiFePO<sub>4</sub> battery pack remains permanently usable. The BP-LFP-13250S has a UN 38.3 transport certificate.

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Advice



## CHEMUK records 41% increase in visitors for 2023 Expo!

CHEMUK 2023 opened its doors on Wednesday 10th & Thursday 11th May at the NEC in Birmingham to a record attendance of 3,956 visitors (excluding exhibitor staff) over the two days, representing an increase of 41% from the 2022 edition. The total two-day attendance (visitors plus exhibitors) was 5,559.

CHEMUK show founder, Ian Stone, sums up this year's event, "The industry is now responding to the single 'destination experience' of CHEMUK providing deliberately segmented zones of specialist industry capability and solutions, supported with unmissable intelligence, whilst at the same time uniting the entire UK chemical industries 'value chain' under one giant roof annually."

**Minister George Freeman leads UK Government briefing**  
A dedicated video address from the Minister of State at the Department for Science, Innovation and Technology, George Freeman, underpinned a comprehensive UK Government presence and input across the two days, with show floor presence and vital conference input from the Department for Business and Trade, the Department for Environment, Food and Rural Affairs, and Health and



Safety Executive. You can watch the full address at: [www.chemicalukexpo.com](http://www.chemicalukexpo.com)

**IChemE adds to the line-up of supporting bodies**  
The 2023 show saw the Institution of Chemical Engineers (IChemE) join an already impressive line-up of supporting industry and trade bodies both on the show floor and hosting crucial intelligence and keynotes across the integrated CHEMUK conference. This included the likes of CBA, BCA, BASA, BioVale, BCMPA, CPI, CCUK, IBiolC, GAMBICA, NEPIC, SIA, and InnovateUK KTN, to name a few.

**RSC as CHEMUK 2023**  
The Royal Society of Chemistry (RSC) was again at the centre of CHEMUK, with a packed two-day programme including an RSC stand, careers clinic, feature RSC conference sessions, a keynote from current RSC President, Professor Gill Reid, and a dedicated members reception.

**Where the magic happens!**  
CHEMUK has become the only destination in the UK where all the key bodies, major companies, and industry stakeholder groups embracing organic and inorganic synthetics, formulation chemistry, analytical and materials chemistry, industrial biotechnology, and chemical and process engineering are 'predictably' in the same 'time' and 'space', under one giant roof, alongside a wealth of downstream chemical-dependent industries.

This is our pick of the best exhibitors from this year's event, listed here in alphabetical order: Action Sealtite, Avery UK, All Valves, Baker Perkins, British Adhesives & Sealants Association, Drallim Industries, Bridge Advanced Engineering, Caldic, Chemicals Northwest, ERG, Foeth UK, NetterVibration, Projex Solutions & Röchling Industrial. Further details can be found on this page and the next.

**Dates for Diary: CHEMUK 2024 (NEC, Birmingham) Wednesday 15th & Thursday 16th May 2024.**



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

## Allvalves Online

Welcome to Allvalves Online, the innovative platform that is transforming the way we interact with and procure valves. In the dynamic world of industrial equipment, valves play a pivotal role in controlling the flow of liquids, gases, and other substances. Allvalves Online is here to streamline and simplify the valve procurement process, providing an unmatched digital experience for businesses and individuals alike.

At Allvalves Online, we understand the challenges faced by organisations when it comes to sourcing reliable and high-quality valves. With our user-friendly interface and extensive product catalog,



we empower customers to effortlessly navigate through a wide range of valve options, ensuring that they find the perfect fit for their specific needs. Our experienced team are ready to take your call.

Our platform offers a comprehensive selection of valves from trusted

manufacturers, encompassing various types, sizes, materials, and specifications.

With Allvalves Online, customers can expect not only a vast product inventory, but also expert guidance and support throughout their valve procurement journey. Our dedicated team of industry professionals is committed to providing unparalleled customer service, assisting in product selection, technical queries, and ensuring a smooth transaction from start to finish.

**Allvalves Online Ltd,**  
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**[sales@allvalves.co.uk](mailto:sales@allvalves.co.uk)**  
**[www.allvalves.co.uk](http://www.allvalves.co.uk)**



**NetterVibration** UK Ltd had another successful year at the CHEMUK Expo. We were visited by many potential and existing customers, who were eager to see the new developments in the world of vibration. This year, the new PKL 1000 impactor was the star of our show, since it comes as standard in stainless steel with an option for ATEX rated. This small but powerful impactor is ideally suited to the chemical, pharmaceutical, and food industries.

The DosyPack was again a great draw, the ability to fine tune the feeding to give constant and precise dosing along with its instant start and stop features



make it suitable for use in laboratories as well as on production lines.

**NetterVibration's** full range of pneumatic and electric vibrators were on display showing visitors that

no matter what their problem with product flow, **NetterVibration** has a tried and tested solution. In addition, **NetterVibration's** consultants and R&D are constantly improving and expanding the product range to meet our customers' needs.

**NetterVibration** UK received enough sales to cover the exhibition costs with enquiries after the show making this our most successful CHEMUK to date. We are now looking forward to CHEMUK 2024, see you at stand L10.

**T +44 (0)1543 278981**  
**[www.nettervibration.co.uk](http://www.nettervibration.co.uk)**

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**Youtube [www.youtube.com/AveryUK](http://www.youtube.com/AveryUK)**

## British Adhesive & Sealants Association (BASA)

In BASA's 40th year of operation, we are still excelling in our mission to remain the umbrella organisation for UK adhesives and sealants manufacturers. Focussing on technical and legislative aspects and on promoting awareness of the industry and technology by providing guidance on technical and compliance issues, we create a variety of networking opportunities for members and provide a huge library of documents on the website. Our SME members are our lifeblood.

BASA is the voice of the adhesives and sealants industry and an information source for manufacturers and suppliers. We lobby on behalf of members



and liaise with Government on legislation, keeping Members well informed of UK, EU and International proposals and initiatives.

With the growing concerns around the environment and using sustainable products and raw materials, BASA is dedicated to helping its members minimise harmful chemical usage and educate the public on the

industry's drive for safer products. BASA members work hard to formulate innovative products that positively contribute to the sustainability agenda whilst maintaining performance and durability.

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

**Contact Lorna Williams,**  
**Chief Executive Officer, British Adhesives & Sealants Association,**  
**T +44 (0)330 223 3290**  
**[lorna@basa.uk.com](mailto:lorna@basa.uk.com)**  
**[www.basa.uk.com](http://www.basa.uk.com)**

## Drallim Rotary Selector Valve at the NEC

Drallim Industries is a world renowned, UK engineering company, supplying specialist equipment solutions for the aerospace, industrial and utility sectors. Established in 1958, the company has recently celebrated its 65th anniversary.

Exhibiting for the second time at CHEMUK at the NEC in May, Drallim's focus this year was on its founding product: the Rotary Selector Valve (RSV) and the associated capabilities of Drallim's Contract Manufacturing and box building services.

Constantly expanding their presence through all divisions, and regularly securing manufacturing contracts with large OEMs; like the recently concluded installation of a suite of electro-pneumatic control panels for a



UK nuclear power station. The Drallim Rotary Selector Valve was a key part of this design, having been specified back in the 80's; the original system now reverse engineered, built, installed, and commissioned by our skilled engineers and technical support team.

The RSV can be utilised in small-bore piping systems at pressures up to 10bar, based on a modular four or six-port design, and lends itself to a multitude of

applications. The valve has many benefits, from the elimination of cross leakage of multiport ball valves, to multiple banks that can accommodate liquids and gases, used simultaneously, with no cross-port leakage. Holding a pressure range from -1 +10 bar, fluid temperature 85°C (185°F). With options, such as base mounting, electrical and explosion proof switches, and lockable handles, the valve can be adapted to positional indication or for controlling associated equipment.

The RSV can be adapted to your individual requirements; a high integrity system, with Drallim providing bespoke or standard configurations, as required.

**Contact Drallim today to find out more,**  
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**<https://drallim.com>**

## Bridge Advanced Engineering Materials R&D Centre

Bridge Advanced Engineering Materials R&D Centre, a state-of-the-art collaborative facility hosted by the University of Lincoln, had a significant presence at this year's CHEMUK at the NEC. With a focus on industrial process innovation, Bridge showcased its cutting-edge capabilities, forging valuable connections with clients and industry peers.

Dedicated to facilitating materials innovation for industrial businesses, Bridge's specialist space houses advanced instrumentation, purpose-built laboratories, and innovation suites. Through collaboration, Bridge harnesses the expertise of its experienced team of R&D specialists, business professionals, and the University's academic community.

Bridge offers tailored diagnostic



consultation and 1-2-1 support for business development, providing industrial companies with the tools to thrive in a competitive market. Additionally, our dedicated team work closely with businesses, bringing product innovations to life through a collaborative approach.

CHEMUK served as a prime opportunity for face-to-face interactions with numerous specialist exhibitors, fostering relationships among like-minded professionals in the industrial

process sector. Dr. Con Robert McElroy delivered a captivating keynote presentation and actively participated in panel discussions during the two-day speaker programme. These sessions delved into the current challenges and opportunities within the UK's chemicals industries.

Mark your calendars for CHEMUK 2024 and join Bridge in witnessing the dynamic fusion of collaboration and innovation. Experience our state-of-the-art facility, which acts as a catalyst for innovation and business success.

**For more information,**  
**please visit our website at:**  
**<https://www.thebridge-lincoln.org>**

**Contact Dr Matthew Thornton,**  
**Commercial Manager,**  
**T 01522 835177**  
**[mthornton@lincoln.ac.uk](mailto:mthornton@lincoln.ac.uk)**

## Have we discussed sustainability before?



Hi, I'm Jo Petrie –Sales Manager at Foeth UK & Ireland, a supplier of used process equipment.

We might have met at CHEMUK23, where we would have spoken about Foeth's circular solutions for the process industry. As Europe's largest dealer in pre-owned process machines, we acquire idle process equipment, production lines, and even entire plants, and relocate them to new production processes. These machines are still in excellent working condition, and we strive

to prevent them from becoming redundant.

By promoting the use of pre-owned equipment, we can reduce the production of new machines and thereby mitigate CO<sub>2</sub> emissions.

If we haven't met yet, I would like to invite you to get in touch. I am available to answer any questions and assess how



Foeth can assist in your specific situation. Whether you are looking to sell machines while closing a plant or seeking cost-effective used equipment to enhance your existing production, I am here to help find a solution to your challenges.

Please feel free to contact me and will be very happy to provide you with further information on the advantages of choosing Foeth as your partner for circular solutions in the process industry!

**Jo Petrie, Sales Manager at Foeth UK,**  
**T +44 (0)7760 755097**  
**[petrie@foeth.com](mailto:petrie@foeth.com)**  
**[www.foeth.com](http://www.foeth.com)**



## EV battery processing technology generates excitement

As world leaders in bulk material handling and processing technology, our stand was a hive of activity during CHEMUK 2023. The topic producing the most buzz? Our end-to-end, turnkey systems for processing and handling materials in the production of lithium batteries.

We spoke to technical directors, process engineers and procurement managers involved in launching EV battery manufacturing facilities in the UK and Europe.

They found sourcing an integrated system from a single supplier an attractive prospect. Bulk material handling and conveying, dosing, dust collection, control systems, additive and ingredient handling – we provide it all.

But it wasn't just our end-to-end capabilities that triggered attendees' interest. They were keen to hear about our



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experience handling lithium carbonate to lithium hydroxide monohydrate, and graphite powder to nickel powder capabilities. Ultimately, we are helping to drive innovation in the processes of handling components for next-generation dry cell battery production.

The final element, which appealed to visitors, was our partnership approach. Our experts work in collaboration with customers to design and implement systems for difficult-to-handle materials; with process guarantees on all our equipment.

**For a consultation on using our technology in the production of EV batteries or any bulk material and handling processes, please email: [sales@kemutec.com](mailto:sales@kemutec.com)**

## Caldic: Your customised solutions partner

Because we care, we touch the lives of hundreds of thousands of people every day. We inspire innovative and sustainable solutions in life science and material science for the food, pharmaceutical, personal care and industrial formulation markets around the world. Our solutions, carefully sourced and customised to exacting specifications whenever required, are backed by research & development, customer service, technical & regulatory support, ensuring that they meet precisely determined needs at every stage of the value chain.

We are passionate about sustainability at Caldic and chose suppliers with the same mindset.

Through working with our partners, Caldic (UK) is able to address many current and emerging trends in the water treatment sector. These include water recycling, reduction of water use, chemical and energy usage in manufacturing processes, as well as emerging contaminants in drinking water, such as PFAS.

In the UK, we work with key global partners in membrane and ion exchange technologies, as well as offering



Wastewater chemicals and more bespoke services such as optimisation of Waste Water treatment chemical programs.

**To discuss any of the above or indeed any other chemical distribution challenges you might face, please contact Russell Banham, T +44 (0)1246 854111 M +44 (0)7775 908355 [r.banham@caldic.com](mailto:r.banham@caldic.com) [www.caldic.com](http://www.caldic.com)**

## Action Sealtite: Connections you can rely on

Action Sealtite is a leading provider of innovative fluid transfer solutions, specialising in couplings and dry break fittings. The company offers a comprehensive range of high-quality products designed to meet the diverse needs of various industries, including their own branded camlock coupling range, Snaplock.

The company's extensive product line includes a wide range of couplings and dry break fittings that are engineered to deliver exceptional performance, durability, and reliability. Stocked brands include Dry Link, TODO, Banjo Dry-Mate and Parker products.

Action Sealtite's expertise extends beyond simply providing products. By collaborating with clients, Action Sealtite can identify potential issues in their transfer systems and recommend the most suitable products and configurations to optimise performance and productivity. Offering expert advice, Action Sealtite ensures that their customers have the most efficient and effective fluid transfer systems in place.

With a strong track-record of customer satisfaction, Action Sealtite has established itself as a trusted partner for businesses seeking reliable fluid transfer solutions. Their emphasis on



quality, expertise, and a customer-centric approach sets them apart in the industry, making them the go-to choice for companies looking to enhance their media transfer systems.

**T +44 (0)1235 512500 [sales@actionsealtite.com](mailto:sales@actionsealtite.com) [www.actionsealtite.com](http://www.actionsealtite.com) LinkedIn: <https://www.linkedin.com/company/action-sealtite>**

## The SME from Yorkshire standing with industry giants

Projex Solutions is an EPCM provider, specialising in design, project management, and compliance, in highly regulated industries. From Chemical to FMCG, they're the guys for Engineering support. But not all is as it first seems.

Despite being only an SME in Yorkshire, they're disrupting the Engineering industry entirely. From the nation's favourite oven-chips, to the famous fizzy drinks in our cupboards, their name is increasingly being recognised amongst some of the most respected organisations, worldwide.



Their EPCM delivery process is being described as 'world-class'. It's also resulted in 7 award-finals in only 6 months, with new trophies being added to their cabinet every year, for the past 5 years! They're challenging much bigger organisations on their rise and it's no wonder that their

team is constantly growing as top industry talent is repeatedly jumping ship to join them.

Speaking on their growth, one representative said, "When clients discover what we're capable of, it's like a moment of realisation! We quickly become their go-to support on engineering projects. We've proven that our bigger competitors aren't more capable. They're just bigger, slower and more expensive."

**Keep up to date with the latest news from Projex Solutions at: [www.projexsolutions.co.uk](http://www.projexsolutions.co.uk)**

## Build and design of thermoplastic tanks

For many years, thermoplastics have been used in tank fabrication. The main reason: High chemical resistance and excellent weldability of the material. To ensure a long service life and a reliable thermoplastic tank the correct material choice and a good tank design are essential.

Plastics processor Röchling Industrial provides both for customers worldwide. Offering a wide range of materials for the chemical processing industry, the product Polystone® CubX® is a trusted material when it comes to fast, safe and efficient rectangular tank construction. The



unique cross-ribbed twin wall sheet ensures a high stiffness with a very low weight.

To assist with tank design Röchling also offers the tank calculation program RITA for rectangular and cylindrical tanks. The recent release

of RITA 5.1 offers a 3D viewer, showing a three-dimensional preview of the tank with an easy switch between 3D view and 2D sketch of the tank. It features the calculation of tanks having conical or sloped bottoms for installation in earthquake zones. A big advantage is the reduction of steel profile sizes for rectangular tanks incorporating new FEA calculation possibilities. RITA also includes the calculation of rectangular tanks made of the twin-wall sheet Polystone® P CubX®.

**Contact <https://www.roechling.com/industrial>**

## B&D Plastics: Supplying chemical pipework system solutions for 25 years

B&D Plastics play a pivotal role in connecting Clients, Installation Contractors, Engineers and OEMs with market-leading Chemical & Water Pipework systems. Successfully providing expertise, knowledge and first-class service; B&D is committed to providing the correct solutions for all your business needs whilst adding value and excellence simultaneously.

Established over 25 years ago in Colchester, B&D Plastics began as a pipework distributor specialising in plastics pipework systems to serve the Chemical Process, Water Treatment & Manufacturing process industries. 2018 welcomed the opening of its Midlands Office that was established to continue the 'expertise, service & solutions' ethos for process businesses based in the Midlands and the North.

B&D Plastics actively stock and distribute a vast range of market-leading products ranging from pipes,



fittings & manual valves to actuation, flow & monitoring control, as well as a comprehensive range of ancillary items. These products are produced by some of the industry's leading manufacturers such as Georg Fisher, Durapipe, Safi, GPS, Technoplast, and many more.

As an industry leader, B&D Plastics is renowned for its commitment to excellence, ensuring each client gets the correct service and product for their individual needs. Therefore, it takes an active role in guaranteeing the correct product is being selected for the applications involved.



**For more information about B&D Plastics, please visit our website: [www.bdplastics.co.uk](http://www.bdplastics.co.uk), and also visit our new web shop: <https://webshop.bdplastics.co.uk>**

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- Odour/control packages
- Plastic/GRP vessel and tank manufacture

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

## Supporting and promoting industry



Chemicals Northwest is the industry-led, chemical cluster support organisation for the Northwest and surrounding areas. CNW is a membership organisation that has been established for over 20 years and is fully funded by its members and supported by the Chemical Industries Association.

With over 150 current members, CNW was keen to promote and share its services to the many attendees at the CHEMUK Expo 2023. CNW exhibited alongside the Chemical Industries Association to actively promote its critical industry. The Expo offered the perfect opportunity for CNW to demonstrate its services that are used to help and support existing



memberships to potential new members.

In order to improve sustainability, competitiveness and image of the industry, CNW facilitate a number of networking events throughout the year that include common interest groups, breakfast networking events, and an annual awards dinner that all have a common goal of covering topical industry issues.

CNW engage with a number of clients and partners in supporting

projects and programmes to identify and enhance business performance. This is done through promoting the science and engineering-based skills landscape, addressing the region's future needs, contributing to the industry's strategic voice and the national growth agenda aligned to the work of the Chemical Industries Association, and by connecting the community of chemistry-using businesses and the vital supply chains in the northwest.

Keep up to date with everything CNW is actively working towards in the industry through its website, regular bulletin, social media channels, and its own 'Elements Magazine' which is an informative quarterly magazine containing the latest news and updates in the industry.

**<https://www.cia.org.uk/chemicalsnorthwest>**



## Classifieds

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