

# INDUSTRIAL PROCESS NEWS

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## Inside this issue:

**MEDATECH**

### Medatech

See them on page .....8



### Curtiss Wright

See them on page .....14



### Kingston Engineering

See them on page .....21

## Contents:

Test, Measurement & Monitoring .....2

Southern Manufacturing & Electronics Review - Top Exhibitors .....8

Machining & Engineering .....11-12

Handling, Storage & Logistics .....13-14

Knowledge Management & Delivery Company of the Month .....16

**IPN**

## Introduce desktop metal 3D printing into your business



Ultimaker has an extensive choice of materials within the Ultimaker Material Alliance, including metal filaments. The two main metal filaments that we offer for industrial applications are BASF Ultrafuse 316L and 17-4PH. The 316L filament is a metal-polymer composite suitable for making tools, fixtures, jigs, small-batch parts, and functional components. The 17-4PH filament comprises metal powder with a polymer binder and has been developed for applications requiring high hardness and mechanical strength.

Ultimaker has a new CC print core with a hardened stainless steel nozzle to facilitate high accuracy printing with abrasive materials such as 316L and 17-4PH. There are two nozzle sizes -0.4mm, which enables greater detail and enhanced surface finish, while the wider 0.6mm results in a faster print.

In September 2020, 3DGBIRE partnered with CMG Technologies to offer a UK



post-processing service for additively manufactured metal parts using BASF Ultrafuse filaments. Customers can now receive a quick and efficient service in the UK to 3D print their parts and send them to CMG to get a 96% dense metal part. Metal printed parts are useful for a range of engineering applications to replace or repair existing parts.

Learn more about Ultimaker Metal 3D Printing: <https://tinyurl.com/bdcwfk2b>

Contact  
T 01257 228411  
enquiries@3dgbire.com  
[www.3dgbire.com](http://www.3dgbire.com)



## Worldwide Logistics Group: Your trusted source in supply chain management

Worldwide logistics Group is the fastest growing 3PL service provider in the UK and Poland. Our objective is to service amazon sellers, online returns, and removal needs. Poland has the facilities to enable us to rapidly deploy integrated returns, remedial processing, and reworks outfitted with our state-of-the-art warehouse management system.

Technology is the driving force behind countless industries and logistics is no different. We are adaptable to our client's needs by understanding buyer behaviour and therefore providing unparalleled support. Serving a range of vertical markets including fashion, renewable energy, chemicals, pharma, and food. We have empowered our clients around the world to penetrate new markets. Like many of our customers, Brexit and COVID-19 have forced us to re-evaluate our profile



and service offering in the EU. Poland provides a unique opportunity in Europe, providing well-educated staff and a growing E-commerce-focused population the ability to have next-day delivery and late night cut off from channels like Allegro. The future is bright for Worldwide Logistics Group and our sector by constantly striving to enhance our service offerings.

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**HSM**

# The world leader in force measurement

Interface Force Measurement Solutions (Interface) is a UK company specialising in the supply and distribution of high-quality sensors and associated electronics and displays for a wide variety of industries. Working previously with clients such as Airbus, BAE Systems, and Formula One Teams, we spoke with Tony Rokins, Business Development & Pressure Mapping Specialist, who explained some of the companies well known products.



"Our product portfolio is applicable to many industries. For instance, we are well known for our high-quality pressure mapping systems that are used by many of our automotive and motorsport customers. Our sensors deliver highly accurate, repeatable measurements and many of our load cells are used by calibration houses as calibration reference devices. Our high-quality, yet competitively priced 3 and 6 axis load cells are used for many R&D, renewable energy and robotic applications."

Reflecting on last year, Interface has faced much adversity from COVID-19. Fortunately, its sturdy business model and reliable service has enabled the company to pick up the pace and continue projects that were left postponed. "Trading conditions have been tough, but business levels picked up strongly towards the end of the year. I think we came out of it stronger than we could have reasonably expected."



In terms of recent developments, Tony continued, "We've taken some time to review our business model, how we operate on a day-to-day basis. Being responsive to our customer's needs and being able to offer a high-quality product with strong product knowledge at a competitive price with the best possible lead times is our number one priority."

2021 also welcomed the launch of the G-Series Load Cells. The range comprises of miniature and small sensors for industrial applications, with capacities starting from just 4.5N Newton up to 200kN with metric threads. "These are high-performance devices but aimed at more cost-conscious applications. This is a new market for us, but we are seeing increasing interest. We are launching an e-commerce

website for the G-Series in the next couple of weeks. Competitive pricing and availability from stock will be key to this new venture's success," stated Tony.

In the future, Interface is keen to continue its growth trajectory for 2022. We asked Tony how he felt receiving the award and what their plans are going forward, he answered, "we work hard for our customers to offer the best measurement solutions. The recognition is greatly appreciated. Long term, we are strengthening our position with our customers in our more traditional markets of aerospace, automotive, motorsport, Universities and alternative energy research.

We are also working on new, wireless force and vibration sensors for remote monitoring in systems such as luggage carousels. One more area we are pushing for growth is with XSensor's pressure mapping systems, particularly in the Hi-speed systems designed for high-speed impact or crash testing and tire foot-print research. These systems are capable of capturing data up to 2,500 frames per second. The tire sensor can be driven over at speeds of up to 140kph. I believe this is a unique capability we can bring to the industry."

For more information, see below.  
**T 01344 776666**  
**info@interfaceforce.co.uk**  
**www.interfaceforce.com**



## Safety and consistency delivered by advanced sensor technology

Semiconductors have changed the way we live and continue to play a key role in our future. As the number of production facilities increase, so the potential for harmful emissions also rises. Sensor technology supports the semiconductor industry by enabling consistency and uniformity, while at the same time protecting those working directly on the fabrication process, and off-site emissions that can potentially impact local communities.

With product standards and safety requirements so crucial, the highest quality standard of sensors and monitoring is imperative. ION Science, leaders in PID (photoionisation detection) technology are experienced in delivering those solutions.

Demand for semiconductors is at an all-time high with a wide spectrum of usage including smartphones on a small scale, electric cars on the medium scale and within smart factories on an industrial scale. Whatever their end application, they require extremely precise fabrication.



Different types of VOCs (volatile organic compounds) and gases are used in the development of integrated circuits on silicon wafers. Determining and ensuring the exact amount of VOC exposure is crucial, both for consistency and for personal health. Unaccounted-for VOCs have the potential to interfere with the creation of a wafer and ruin a circuit, potentially even a whole batch.

Ensuring consistent performance on a product line cannot be underestimated. By incorrectly monitoring VOCs and gases, businesses run the risk of wasting vital resources and damaging the health of those employed to manufacture them.

**Workers are at risk of being exposed to VOCs used and highly toxic VOCs generated as by-products during the fabrication process.** Devices are produced in clean rooms that are strictly controlled to avoid the generation and deposition of particles on wafers. Fabrication facilities are generally equipped with local associated ventilation systems to help manage VOCs. However, in some facilities, the air exposed to the photolithography process is only recirculated with 20-30% outdoor air therefore allowing low concentrations of VOCs to potentially persist.

When accurately monitored by high precision sensors, **VOCs and gases used in the semiconductor industry do not need to be detrimental to human health.**

However, without consistent and accurate measurement, such as that provided by ION Science sensors, worker risk is significantly increased due to potential exposures to a variety of chemicals above safe concentrations for extended periods.

ION Science is renowned throughout the industry as the PID sensor of choice for VOC monitoring by OEMs, and were recently awarded the **Queen's Award for Enterprise in Innovation** for its range of MiniPID sensors.

**ION Science's guide to better understanding the processes and ways of protecting sites and workers is available to download free here:**  
<https://tinyurl.com/4dhadjsn>

**Contact**  
**T +44 (0)1763 208503**  
**info@ionscience.com**  
<https://ionscience.com/en>

## Spectronic CamSpec announces the launch of their modern new website

**Spectronic CamSpec Ltd, a leading analytical instrument supplier, are delighted to announce the launch of their modern new website.**

After months of hard work, the creative and interactive new website has finally been launched. Spectronic CamSpec's goal with the new website is to provide visitors with a seamless experience when gathering information on their products, services and solutions.

The web pages are more responsive and accessible, making it easier than ever before to



browse and help customers make well informed decisions for their business. The website will be continuously updated with helpful content such as articles, company announcements and product resources, which Spectronic CamSpec hopes will be of upmost value to their current and prospective customers.

Spectronic CamSpec is very pleased with the fresh new look and hopes to establish the website as vital source of information for future visitors.

Marketing Apprentice Lauren said, "The new website reflects how our company has grown both online and offline over the past few years. We look forward to progressing even further and will continue to add to the website as it becomes the centre of our brand. Thanks to the team that contributed their time and energy to make this exciting step forward."

<https://www.spectronic-camspec.co.uk>

## New E-Commerce site from Interface Force Measurements

Interface Force Measurements, suppliers of the popular and whisper-quiet 1,200 precision series load cells are pleased to announce the launch of a brand new E-commerce website where you'll be able to order your load buttons, in-line load cells and mini s-beam load cells.



name, but at very competitive prices.

<https://store.interfaceforce.co.uk> will offer our G-Series load cells on short lead times with next business day delivery for small quantities being the aim. Interface load cells at competitive prices with all the convenience purchasing online offers, what's not to like?

Going live on the 1st of April, <https://store.interfaceforce.co.uk> will feature the Interface G-Series of load buttons, in-line load cells and mini S-beam load cells. The Interface G-series has all the quality, reliability and performance you'd expect from a force transducer bearing the Interface

The Interface G-Series was launched around one year ago, becoming a popular product range with students, industrial engineers, OEMs and anyone requiring a small form force sensor offering accuracy, repeatability and

Interface quality. All G-Series load buttons and load cells feature:

- Full stainless steel construction
- Individual calibration certificates to NIST traceable standards
- High output at 2mV/V
- Capacities from 4.5newtons to 50kN.

If you are interested in placing volume orders or have an OEM application that G-Series products might be suitable for, please contact us directly.

**Contact Interface Force Measurements Ltd,**  
**T 01344 776666**  
**info@interfaceforce.co.uk**  
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**interface**  
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**Purchase our G-Series at [store.interfaceforce.co.uk](https://store.interfaceforce.co.uk) or visit [www.interfaceforce.co.uk](https://www.interfaceforce.co.uk)**

# TOPTICA renews its brand presence

New logo and brand design support the continued growth path

TOPTICA presents itself stronger than ever with a fresh new look. The brand design was launched for the first time this year at the international industry meeting LASER World of Photonics in Munich.

TOPTICA, as one of the key innovation drivers in the laser industry is presenting the company in a novel way to ensure even greater visibility and to highlight the brand's key position in the market.



Dr. Wilhelm Kaenders (left) and Dr. Thomas Renner (right) presents new TOPTICA logo and brand design at LASER World of Photonics in Munich

## New brand design reflects successful development

"The driving force behind TOPTICA's success story, which continues to this day, was and is TOPTICA's ability to actively shape the future as a technology leader in its industry. Our company is a reliable partner for developing unique and innovative lasers since more than 20 years," emphasises Dr. Wilhelm Kaenders, CTO and co-founder of TOPTICA.

## New brand design takes on former style elements

The former logo has its origin 25 years ago in ophthalmology. Meanwhile,

TOPTICA has earned a much broader reputation for its scientific and industrial lasers, for example through its lasers for the upcoming quantum industry or lasers for OEM microscopy customers, and last not least, by the legendary Sodium Guide Star lasers by daughter company TOPTICA Projects. TOPTICA eagerly develops and manufactures high power laser diodes for customers with challenging demands.

The new design reduces the logo to its essential components, four circle segments interpreting the main features of the previous logo. With the new design, TOPTICA presents itself in a modern, independent, and authentic way.

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# LAUDA Technology: Experts in Thermal Control and Measurement



LAUDA – Experts in Thermal Control and Measurement providing innovative solutions for Thermal Process Control, Chilled Water Applications, Water Baths, Freezers, Incubators, Shakers, Stills, Tensiometers, Viscometers and Contact Angle Measurement.

Located in Stamford, UK, LAUDA Technology continues to provide an expanding range of feature-rich, future proof solutions with energy efficiency and connectivity front of mind, serving a diverse range of industries including energy, chemical, pharmaceutical, biotechnology, oil and gas, composites, automotive, aerospace, food & beverage, brewing, digital printing, laser and beyond.

Since 1956, LAUDA has been developing, manufacturing, and supplying reliable precision measuring instruments that have become firmly established worldwide in research, teaching and quality assurance. We are here to assist with your application needs, from measuring instruments for determining the viscosity of polymer solutions, to optical contact angle measuring instruments for measuring the free surface energy and the wetting behaviour, through to classic tensiometers for determining the surface and interfacial tension of oils and surfactants.

For decades, well-known clients from all over the world have come to rely on LAUDA measuring instruments, which bring together precision, reliability, and longevity, along with extensive experience in sales and service to provide the very best levels of product support.

Beyond measurement, LAUDA retains a core competency in temperature control for applications in research & design, pilot plant or full-scale production. LAUDA's new range of water chillers has been designed not only to comply with the new Eco-design directive, but to surpass it through the innovative use of variable speed modules that automatically reduce their duty cycle in line with the cooling demand hence reducing energy consumption and running costs, giving a tangible return on investment for the user, whilst ensuring full compliance with the latest regulations on refrigerant (fluorinated) gases.

Further portfolio expansion delivers the new LAUDA 'Versafreeze' ultra-freezers, (deep-freeze storage down to -85°), and higher power 'Integral' process circulators, (process control from -90 to 320°C with >25kW of cooling @20°C), with pressure overlay options to increase the working range of water/glycol up to 140°C.

Furthermore, for applications requiring customised solutions tailored to individual requirements, we offer a made-to-measure design service using a long-established and highly skilled team. Project engineering is a core competence of LAUDA and using the modular engineering approach, we can design and scale a system specifically matched to the application needs in the range -150 to +550°C.

The newly launched LAUDA.LIVE digital product allows for remote connection to LAUDA devices providing smart analytics and monitoring tools, as well as sophisticated control and remote troubleshooting capabilities that maximise uptime, reliability, and performance.

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## Chemicals

### sera Technology

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

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sera air operated diaphragm pumps are cost-effective, leakage-free positive displacement pumps. They have two diaphragms linked by a connecting rod. Compressed air is supplied alternately to the air chambers behind the diaphragms through an air control valve, so that one diaphragm is pushed forward while the other is pulled back (pressure/suction stroke). The special design of the air control valve ensures that the pumps can always be started up safely and there are no inconvenient downtimes. The high quality of the materials guarantees long-

term, operationally reliable use. The right material is available to meet every need. We supply all accessories required for optimal installation of dosing pumps, including compressed air supply units, pulsation dampers and connection adapters, etc.

**Contact**  
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### Steel Dynamics Ltd



Steel Dynamics Ltd, now part of the Steel Dynamics Group, is the UK's leading Stockholder and Processor of Stainless Steel strategically located throughout the UK, supplying a range of mainstream profiles to complex supply chain solutions.

We stock only premium quality materials from World Class EU mills. Our extensive stock range boasts over 5,000 tonnes of various Stainless Steel grades in thicknesses ranging from 0.5mm-150mm. We are adequately stocked to support UK manufacturing during recent and uncertain economic climates.

Due to ongoing substantial growth, Steel Dynamics Ltd has also invested heavily in the latest, state-of-the-art equipment to develop our cutting, milling, and pressing capabilities. Our most recent investments include the HAAS VF4 Super-Speed, Timesaver 22 Series and a completely bespoke 14m x 4m, dual gantry multi-head system Water Jet cutting machine.

Demonstrating our wealth of expertise with over 200 years' combined experience, Steel Dynamics Ltd purpose is to relentlessly work together with its customers to reduce their costs and help UK Manufacturing flourish. We believe in nurturing our relationships with all our customers thus, our Total Service Concept is aimed at relieving the stress of managing material, identifying processing methods, handling and delivery from our customers. TSC is offered free with no up-front cost and offers a range of unbeatable benefits!

**For all enquiries, please our Sales team:**  
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### Blended



At Blended, we have been supplying specialist chemicals and gases for almost 20 years. The company prides itself on offering the optimal 'blend' of speciality chemical expertise, exceptional service, and positive attitude that customers can rely on.

From Anhydrous Ammonia and Carbon dioxide to a line a glycol-based heat transfer fluids, a team of industry experts and a full-service testing laboratory, Blended are the ideal partner to supply your chemicals and gases. Over the years, we have developed strong relationships with our clients and endeavour to provide the best, ongoing service with the food and drink industry, heating, and cooling sector and even wastewater treatment plants. Whatever the challenge, we have the equipment, resources, and people to meet your project needs.

Coolblend, by Blended, is a complete range of high-performance heat transfer fluids that can be used in a wide variety of applications requiring the need for glycol based heating and cooling liquids. Our new line of cleanings solutions: Serviceblend includes pre-cleaner, biocide, and online cleaner as a highly effective biocidal flush. This product works optimally with our glycol-based products but also as a stand-alone product for servicing and maintenance of equipment.

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Apex Pumps has been producing high specification centrifugal pumps since 1988, operating both within the UK and worldwide on installations where efficiency and reliability are of prime importance, and we have earned an enviable reputation for the quality and endurance of our products. Apex is able to produce bespoke centrifugal pumps to customers' requirements on short lead times. The unique capability within the UK of having a foundry onsite and utilising UK sourced material were possible. The company has been built on its responsiveness to enquiries, customer's requirements and delivery needs. We design and build all our pumps at our site in Bristol and are very proud to be a members of Made in Britain and the British Pump Manufacturers Association.

Apex Pumps ISF range offers an end suction pump conforming to ISO 2858 and ISO 5199. The ISF range is the ideal pumping solution for demanding



applications such as chemical process and many industrial applications. A comprehensive range of 29 pumps sizes with many more configurations, high efficiency design and with low net positive suction head requirements. Available in a wide range of materials including stainless steel, Super Duplex and Nickel alloys for some of the most arduous chemical applications.

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

## Futraheat lands £149,000 from BEIS to help factories slash fuel use

Factories of the future may be able to slash their fuel use by adopting a new British technology, which paves the way to zero carbon industrial heat processes.

London start-up Futraheat has developed a ground-breaking high temperature heat pump – known as Greensteam – which can help industrial users recycle heat and radically reduce fuel use – delivering energy reductions of up to 90%.

They have partnered with manufacturing integration specialists, Projective to secure £149,000 Phase 1 funding from the BEIS Industrial Fuel Switching competition to investigate the feasibility of their product with leading food and pharma businesses.

The project will identify potential partners for £1.5 million Phase 2 where, with BEIS support, Futraheat and Projective will deliver commercial scale 500kW Greensteam heat pumps for use in an industrial process, with two customers to be confirmed from Phase 1.



It is hoped that Futraheat and Projective will secure in kind support for Phase 2, which could commence early next year, from one manufacturer in the food and drink sector and one from the pharmaceutical industry.

Futraheat's modular, Greensteam heat pump uses a new type of patented turbo compressor, known

as TurboClaw®, which cost-effectively recovers low grade waste heat – a by-product of many industrial processes – and boosts it up to 150 Centigrade, where it can be successfully reused onsite.

Click here for a three-minute explainer animation: <https://www.youtube.com/watch?v=gB6fdXZjnlY>

Click here for a one-minute explainer animation: <https://www.youtube.com/watch?v=XKTUGS2s3Yk>

The competition supports the recently published Industrial Decarbonisation Strategy (March 2021), which identified that government investment is required to advance the development of low carbon technologies to address the barrier around uncertainties associated with novel technologies for the private sector.

T +44 (0)20 8546 6372  
info@futraheat.com  
<https://futraheat.com>

## Surface World Live Review – Top Exhibitors

### Surface World Live

The Surface World Live exhibition is the UK's only event dedicated to the surface treatment, product finishing and coatings industry. It provides a major showcase for the very latest technology and developments in this important and expanding area.

After a four year hiatus due to COVID-19, Surface World Live 2022 returned to the NEC, Birmingham on the 2-3 March and was a great opportunity to showcase the latest technology and products available

on the market. Over 100 exhibitors were in attendance to discuss business with new and existing suppliers, whilst attendees had the chance to take advantage of a number of exclusive show offers with footfall being considerably higher than the previous show back in 2018. Experts were also readily on hand delivering live demonstrations and advice from some of the leading companies in the industry.

Exhibitors were inundated with many queries,



proving the surface finishing industry was once again back at the top of its game.

Surface World Live will be returning to the NEC, Birmingham for its next event which is being held on the 4th & 5th October 2023.

This is our pick of the best exhibitors from this year's show, listed here in alphabetical order: Asset Disposal Services Limited, Corrodere Academy, Diamond Cut Refinishing & Railtechnik. Further details can be found on this page.

For more information on how to reserve your stand, please see below:  
T 01442 826826  
nigelbean1@aol.com  
[www.surfaceworld.com/surface-world-live](http://www.surfaceworld.com/surface-world-live)

## DCR Pro Diamond Cutting Alloy Wheel Lathe, proudly made in the UK

### What is the DCR Pro?

The DCR-Pro has been designed from the ground up, solely to be a refinishing machine for diamond cut alloy wheels, which can be used as a mobile & static solution for your business. The DCR-Pro will produce the pristine 'factory finish' you've been looking for. It's small footprint & quiet nature should not be misunderstood or confused. It is now proven to give the same, if not better results as the much larger CNC lathes whilst not taking up too much space in your workshop or van. The smart user interface is easy to use making simplicity its main focus, with the end goal, saving your time.

Designed and built in our Portsmouth HQ the DCR Pro is a true British Manufactured product.

With the Number of Cars being manufactured with Diamond Cut finished alloys the DCR Pro is at the forefront of Alloy wheel refurbishment.

The DCR Pro is the world's ONLY alloy wheel lathe that is designed for both Workshop & Mobile solutions for alloy wheel refurbishment.

### Contact our team today:

T +44 (0)2392 062098  
hello@dcr.world  
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## Stable & precise – F2 Wide Track floor conveyor by Railtechnik

The F2 inverted Power & Free is our newest product offering for floor conveyor systems specially designed for the surface treatment industry. The F2 wide track conveyor is an improved version of our highly successful F1 inverted Power & Free floor conveyor.

At the finishing line at Kalkhoff bikes in Cloppenburg, Germany, the F2 wide track floor conveyor carries the painted bicycle frames where decals can be applied and the finishing touches can be made.

The wide track configuration compared to a regular track allows for heavier loads to be transported in an extremely stable manner, thereby increasing the efficiency of the production process. With our well-known D8 power chain installed under the free



track and carrier trolleys, the risk of contamination of the transported products is kept minimal.

Our conveyor systems can be fully automated to suit the client's needs, giving them full control of the process flow and increasing overall production output. The F2 wide track can carry the product through flash-off zones, spray cabins, powder-coating units, washing areas, pre-treatment areas, as well as

drying and curing ovens. The track's low profile also means that it is ideal for installations that utilise pick & place robots.

Additionally, since our MES and PLC systems are built completely in-house, we can provide clients with an easy-to-use, ultra-personalised control system. Clients can track the product using barcode scanners, log quality data in real-time and have more control over the journey of the product across the shop floor.



T +31 344 61 6363  
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## Corrodere Academy

The Corrodere Academy provides globally recognised and accredited training and qualifications to the protective coatings and corrosion control industry. Our sole aim is to raise standards throughout the industry worldwide and help our students LEARN, DISCOVER and SUCCEED.

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Contact  
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## Asset Disposal Services Limited

Asset Disposal Services Limited are a leading UK auctioneer and selling agent of capital plant and machinery in the engineering, manufacturing and processing sectors.

We sell clients' machinery by private treaty or through our preferred auction platform provider, BidSpotter, the world leader in industrial online auctions.

We optimise the value our clients get for their unwanted machinery, without adding to their workload. With potential buyers experiencing long lead times in sourcing the new machinery they need to fulfil vital orders right now, increasingly they are looking to the second-hand market. And with COVID-19 having changed attitudes to buying via the internet, online auctions have grown massively in popularity, making them the preferred route for astute buyers.

Here are two Powder Coating Lines we are marketing RIGHT NOW for clients under private treaty sales, both of which are available at a fraction of the price of new and far quicker than if sourced new.



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If you have machinery that you would like to dispose of or, alternatively, if you are looking to buy machinery in the engineering, manufacturing or process sectors, ADS can be contacted by calling or emailing:  
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Philip Stokes: phil@assetdisposalservices.co.uk  
Paul Brindley: paul@assetdisposalservices.co.uk

Alternatively, visit our website at:  
[www.assetdisposalservices.co.uk](http://www.assetdisposalservices.co.uk)

# Oliver Twinsafe Valves: A completely new seal design was the only answer!



**T**he Fife LNG plant at Mossmorran, operated by SHELL, can provide a challenging environment for any high-pressure valve, but when a need arose for a number of ANSI class 300 DBB valves with a high operating temperature range, few manufacturers could meet the requirements.

The requirement for ANSI 300 class, 2" DBB valves suitable for a temperature range from -50°C up to +350°C would force the designers at Oliver Twinsafe to completely rethink the sealing technology used in their double block and bleed ball valves.

An additional layer of complexity, on top of this already challenging application, came with the requirement to meet the demanding MESC 77/300 design validation test that includes fugitive emission testing.

The actual ball sealing was readily achieved as Oliver Twinsafe already manufactures a wide range of metal seated valves, dispensing with any elastomeric seals completely. But even here special attention was needed in relation to the ball and seat materials, especially the tungsten carbide coating



required to ensure long service life. For zero and low through seat leakage requirements, such as this application, porosity control of the Tungsten Carbide coating is of paramount importance. Other sealing sites throughout the valve would prove more challenging, especially the dynamic sealing requirements for the operating stem used to rotate the ball.

Industry standard stem seals, for more challenging applications usually made from Graphite, PTFE or PEEK, see a rapid degradation in their mechanical and physical properties at temperatures above 180°C. Searching for seals that can function across the required temperature range,

Oliver's R&D team turned to one of the world's leading elastomer manufacturers who suggested a high-performance specialist polymer solution usually associated with jet engine technology.

Although now armed with a suitable material, turning this into an effect seal still remained elusive. The Oliver Twinsafe designers and R&D team worked through many traditional configurations, with limited success; the only answer was to design a completely new stem seal arrangement in house.

The decades of knowhow in the Oliver team and a rigorous testing led development process, eventually came up with, a now patented, stem seal design that delivered fugitive emission leak rate B across the full temperature range required also passing the MESC 77/300 design validation test.

A combination of experience, innovative design, class leading R&D, and the drive to meet the most challenging applications makes Oliver Twinsafe one of the world's leading valve manufacturers.

**For further information, contact Richard Featherstone at: rfeatherstone@valves.co.uk or simply call us on: +44 (0)1565 632636 or visit us at: https://www.valves.co.uk/twinsafe**

## Health, Safety & Workwear

# Now with new accessories – Slimline AZM150 solenoid interlock

*The DHS-150 door handle system is especially suited to heavy swing doors*

**W**ith the new practical DHS-150 door handle system, the slimline AZM150 solenoid interlock from Schmersal is now even easier to use. The ergonomic DHS-150 avoids the need for a separate door handle and is suitable for machine enclosures or fencing and for all standard aluminium profiles with a width of 40mm. The robust door bolt is particularly useful on heavy swing doors and in for use in harsh environments.

One benefit of the new accessory is that the actuator is pre-positioned by the bolt in the DHS system, thus ensuring its optimal insertion into the device. This gives the system stability against lateral forces. In the event of lateral forces on interlocks that cannot be overcome, the safety door will not be opened – thus causing delays in the production process. In this regard, the DHS-150 door handle system, in conjunction with the AZM150 solenoid interlock, contributes to improved system availability.

In addition, the DHS-150 door handle system is also equipped with an integrated locking device (LOTO). This locking tag function protects operating staff from mistakenly being locked inside larger, walk-in systems and machines while they are performing servicing and repair work. The locking device ensures that the door



Schmersal now offers the slimline AZM150 solenoid interlock with the DHS-150 door handle system

of the protective device cannot be closed and unintentional machine start-up is prevented.

The AZM150 solenoid interlock has an interlocking force of 1,500 Newtons and is characterised by a slimline, space-saving design. In addition, it can be combined with three different actuators for different attachment situations. A positive of the interlock is the rotating actuator head which can be locked with ease by simple placement on the cover, rather than being bolted into place.

The rotating actuator head with its two insertion slots enables various installation positions and actuating options and makes the interlock particularly versatile in use.

The AZM150 solenoid interlock is electromechanical in design and can be combined with a high safety standard: the interlock is supplied with a low coding level as standard, or optionally with a high coding level in accordance with ISO 14119. The DHS-150 door handle system

can be used with the B1 straight actuator for the standard version as well as for the individually coded version. The B1 actuator is supplied with the high coding level version of the device, but must be ordered separately for use with the standard version.

**Contact Steve Watkins, T 01684 571980 swatkins@schmersal.com www.schmersal.co.uk**

## Breathe easy with industrial air purification from Zehnder

In times where clean air is more important than ever, Zehnder's air cleaning solutions are a key factor in protecting your employees and equipment. They complement existing ventilation like LEV perfectly and flexibly to remove welding fumes, oil mist, dust, and toxic gases.

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- ✓ Exceed customer expectations
- ✓ Improved product quality

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## Fristads Green High Visibility

Fristads takes the next step in becoming a more sustainable supplier of workwear by launching its most comprehensive sustainably produced workwear collection to date – Fristads Green High Visibility.

The Fristads Green High Visibility collection consists of a wide range of garments making it possible for professional workers within many market sectors to dress from top to toe in high visibility garments with lower environmental impact – without compromising on safety and quality.

### Leading the way in sustainability

Fristads has a long-term goal to lead the workwear industry when it comes to sustainability and broke new ground when it launched the world's first environmentally

declared clothing collection Fristads Green in 2019. All Fristads Green products have an Environmental Product Declaration, an EPD, showing the garment's total impact on the environment, from construction and material choices to waste and transports.

This is the fourth Fristads Green collection to be released. Since the launch of the first environmentally declared collection for craftsmen, the Fristads Green concept has been expanded to include garments for service and industry as well as outer garments. The plan is to offer environmentally declared Fristads Green garments in all product segments.

You can now calculate the environmental impact of your workwear using the GREEN calculator:



[www.fristads.com/en-gb/fristads-green-calculator](http://www.fristads.com/en-gb/fristads-green-calculator)

Contact Rob Freeman,  
T 0203 026 7767  
sales.uk@fristads.com

'Cleanliness is the hallmark of perfect standards'



Factories and plants are naturally greasy environments with oils and coolants often dripping onto surfaces and floors; which in turn makes for further issues as workers tread in the spillage and spread the liquid into other areas of the factory. Keeping such areas clean and safe can be a challenge.

A clean working environment is crucial to efficiency; it not only saves time and money, but also protects employee health and well-being. An efficient cleaning process can increase hygiene levels by reducing waste. Plus, managed waste disposal also reduces overall costs as well as mitigating potential health and safety fines.



### Traditional cleaning methods

Many industrial companies use rags or blue roll for their cleaning processes. Taking a one-size-fits-all approach, these rags and rolls are expected to clean up oil or chemical spills, safely remove metal filings, wipe down machinery, clean hands and more. Lacking absorbency, an absence of specialty and an expectation too high of their capabilities, rags and rolls often leave the workplace cleaner, but certainly not clean. In addition, these items aren't recyclable, meaning the environment is impacted too.

### There are alternatives...

MEWA has developed a range of industrial cleaning wipes that are suitable for different needs within the workplace. The range is highly-absorbent, also taking into account the varying surfaces that need to be cleaned by offering different weaves of cloth for different needs.

### Re-usable, recyclable and rentable

Soiled wipes are placed in a collection container; MEWA collects the containers and delivers fresh wipes without any interruption to the customer. The used wipes are then cleaned in an eco-friendly way, checked for tears and damage and once approved, put back into service – a circular economy.

This new approach to cleaning is one that will save money, increase productivity, reduce injury risk, enhance overall quality and allow staff to focus solely on their work without the worry of a dirty working environment. In addition, of course, a clean and efficient factory will only serve the right impression to any customers or visitors on the factory floor.

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



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The coolers are portable so provide a highly flexible solution, and their low energy consumption means they are economical to use, kinder to the planet, and unlike air conditioners, they don't rely on a closed environment, so can be used in more open spaces, such as warehouses, factories, event spaces, agriculture building, and sports arenas.



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VAF Air Ltd

## Isn't it nice to be back?



Southern Manufacturing 2022 returned in its customary format at Farnborough International Exhibition Centre from 8-10 February 2022 as arguably the most comprehensive engineering show in the country. The three day event is where the worlds of electronics and industrial production hardware converged with component distributors and subcontract engineering services, creating an event with almost universal appeal across the entire engineering spectrum.

Whether it was seeing the latest machine tools in action, sourcing components or specialist engineering services, Southern Manufacturing was the place to find it. Being able to solve multiple procurement issues at a

single show was a very compelling motivation to visit.

Southern Manufacturing and Electronics is the most comprehensive annual industrial exhibition in the UK and a major pan-European showcase for new technology in machinery, production equipment, electronic production and assembly, tooling and components as well as subcontract services across an impressively wide range of industry.

The programme of free technical seminars was a complementary blend of technical and business topics covering a wide range of issues facing manufacturing businesses today.

Southern Manufacturing returns next year to Farnborough International Exhibition Centre from 7-9 February 2023. This is our second pick of the best exhibitors from this year's event, listed here in alphabetical order: Expromet, Interactual, Medatech & Rutland Plastics. Further details can be found on this page.

**Contact**  
[www.industrysouth.co.uk](http://www.industrysouth.co.uk)

## Rutland Plastics wins Plastic Processor of the Year

Rutland Plastics, an injection moulding company in the Midlands, is celebrating having won the prestigious Processor of the Year award at the Plastic Industry Awards. The Processor Award recognises UK processors (manufacturers of components and products using plastics) who are able to demonstrate their overall excellence and sustainable performances across a number of areas; business enterprise and growth, technical innovation, people development, manufacturing efficiency, customer relations and environmental concerns. In other words, the company needed to be an all-round world-class processor. "We are incredibly proud to have won this prestigious award, especially as the company celebrated its 65th Birthday in 2021," said Steve Ayre, Managing Director of Rutland Plastics.

Rutland Plastics' customers are from all sectors of business, some have been with Rutland Plastics for decades and some are just starting projects. Rutland Plastics has enjoyed steady and sustained growth over the years and has always considered reinvestment a main priority. 2021 saw the purchase of 3 new moulding machines taking the number of machines on site to 31. The machines range in size from 50 tonnes to 1,700 tonnes, which means they can mould plastic parts ranging from 1g to 48kg and up to 1.5m in size.

T 01572 723476  
[enquiries@rutlandplastics.co.uk](mailto:enquiries@rutlandplastics.co.uk)  
[www.rutlandplastics.co.uk](http://www.rutlandplastics.co.uk)  
[www.3dprintedprototypes.co.uk](http://www.3dprintedprototypes.co.uk)



## Expromet remains at the forefront of British manufacturing

Continuous improvement and diversification remain key to a strong British manufacturing industry. Expromet Technologies Group, which provides precision engineering solutions to customers across a range of performance-critical industries, is always on the lookout for opportunities to deliver added value, expand in key markets and acquire additional capabilities to further strengthen its customer offering.

### Building on solid foundations

Expromet's success is founded on three strategic pillars:

#### 1) Operational excellence

Group companies Investacast, Haworth and Metaltech are renowned for high quality precision engineering. Expromet has engaged with the government-funded NMCL programme to embed a tailored operational excellence model across Group businesses, helping them to further refine their best in class offerings to customers.

#### 2) Organic growth

Expromet continues to expand its customer base in both existing and new markets. In particular, the Group is working to develop its offering to



the Clean Energy sector as part of its commitment to growth in and support of sustainable industry sectors.

#### 3) Acquisition

Expromet continues to extend its capabilities as a fully integrated, leading-edge supplier of engineered solutions for global customers through investment in existing technologies and the acquisition of new capabilities.

#### Manufacturing for the future

The experience of Expromet shows that by investing in people, processes and capabilities, companies can deliver additional value to their customers, even in difficult times.

**For further information, please contact**  
**Expromet on: +44 (0)1271 866200 or**  
**email: [enquiry@expromet.com](mailto:enquiry@expromet.com)**

## The problem with project-based companies



Most ERP systems are designed for either distributors or manufacturers. They use a simple set of processes:

- Take sales orders
- Plan where you will source the demand from
- Purchase what you need and receive the goods and the invoice
- Make the demand (if you are a manufacturer)

- Ship product and invoice for it
- All the rest of the finance stuff.

However, what if you are a project company, be it dealing in supply, service or manufacture?

Finance processes are completely different as they need to report by project.

Inventory transactions need to be allocated to projects not in-house stock.

Profitability is measured by the project and timescales are always different.

This means most project companies end up with two systems and then interface them. Inevitably the transactions do not match across systems, so it all ends up in a spreadsheet.

### There is a solution

Priority ERP is a system that understands projects.

All transactions are project based so reporting is automatically segregated to the specific project whilst statutory reporting shows the complete company view. No need for a spreadsheet just to monitor project progress.

**Need more? Go to: [www.medatechuk.com](http://www.medatechuk.com) or contact us at: [sales@medatechuk.com](mailto:sales@medatechuk.com)**



## How do you ensure that your product is rugged and robust?

Interactual together with partner business JNDC supports designers, engineers and innovators through the Design for Reliability (DFR) process to mitigate the risks of product failure out in the market. At Southern Manufacturing, we focused on electronic integration into ruggedised products – our facility in SW London is equipped for mechanical, environmental, acoustic and high-speed visual testing as well as for prototype development, test rig development and initial production.

We offer a first-stop agile, low cost make-test-iterate cycle that both mitigates against

product failure and prepares your product for compliance testing at an accredited test house.

"Everyone was drawn to the decommissioned shotgun displayed on our stand," says Ben May, Managing Director of Interactual. "We were tasked to integrate IR sensors into the barrel and digitise the trigger and reload actions to transmit highly accurate positioning and fire data for the recently launched Clays Bar immersive clay pigeon shooting experience based in the centre of London. Ruggedising the guns has proved incredibly challenging as there is no use-case more hostile than 20



inebriated revellers on a big night out!"

**Contact Ben May, Managing Director,**  
**T 020 3358 0480**  
**[benmay@interactual.co.uk](mailto:benmay@interactual.co.uk)**  
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# Cat Pumps continues to keep Drill Ships clean with Wash-Saver

In 2016, Cat Pumps (U.K.) Limited supplied a Wash-Saver unit to a major operator from the Oil and Gas sector for washing down equipment on one of their drilling ships.

This global company, located in Scotland, operates drill ships for ultra-deep water and mid water drilling rigs. Cat Pumps was first approached because one of the

drill ships had been using a competitor's washdown system to provide high-pressure water to clean the on-board equipment. The crew members were

coming across the all-too-common issues regarding reliability of the pumps that were initially installed. With this system simply not up to requirements of this formidable and challenging marine application, Cat Pumps was asked to retrofit the ship with one of its own washdown units.

Fast-forward a few years to late 2021. Being so impressed with the design, quality, performance and reliability of the first unit, the drilling company approached Cat Pumps to supply them with a second system. The requirement was to provide a washdown twin pump unit with a maximum footprint of 1,600 x 1,000mm, which could provide high-pressure water at 20 to 100 l/min and 160 bar.

Initially, the standard Cat Pumps Wash-Saver design was not suitable, as the unit needed to fit down the ship's hatchways. The combination of the limited footprint and twin pump design was no problem for the Cat Pumps team, as they routinely build systems to customers' exacting application specifications. The result was a 'tower design' where one pump/motor set is above the other on a common frame with interconnecting pipework. The Wash-Saver unit is controlled by a variable speed drive (VSD) housed within a bespoke control panel. The ultimate goal was to closely match washdown demand to pump performance, thereby saving energy and maximising running hours between pump servicing and ensuring that our washdown solution remains a cut above the competition.

## Wash-Saver Conserves Water and Energy.

### Excellent Water and Energy Efficiency for Centralised Washdown Systems

Our Wash-Saver is an energy-saving, high-pressure package designed for centralised and multiple gun wash applications. Every new product is built with the same winning business philosophy: manufacture the longest lasting and most dependable products.

#### Features:

- Instant response to changing gun demand reduces water use.
- Low consumption idle mode.
- Automatic start/stop function (sleep mode) saves energy costs.
- Run dry and pipe leak detection for better maintenance.
- Preconfigured control panel with adjustable parameters.



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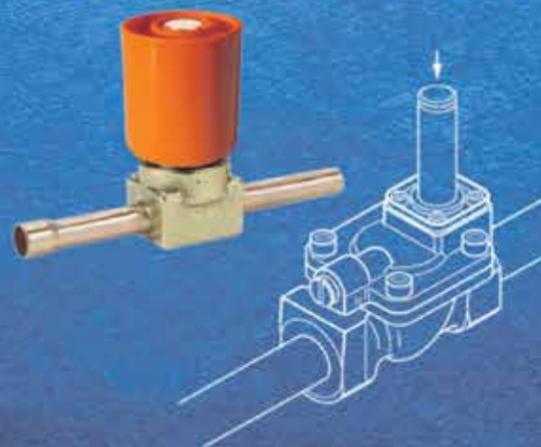
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### Success of Subsea Expo 2022 hailed

Subsea Expo 2022 was hailed as a major success after more than 4,000 visitors attended the event in February.

Organised by the Global Underwater Hub, the three-day exhibition and conference followed the theme of 'Oceans of Opportunity', engaging delegates in discussions around how the UK's underwater industry can capitalise on the global blue economy.

Over 110 companies exhibited at Subsea Expo 2022, with many hailing the footfall and strong interest shown by visitors in their products and services. Many also reported doing 'real' business and receiving a large number of enquiries.

Running alongside the exhibition was a busy conference programme that featured addresses by Ivan McKee MSP, the minister for business, trade, tourism and enterprise, and speakers from the Royal Navy, Aker Offshore Wind, the Marine Energy Council and Salmon Scotland. The sessions highlighted the cross sectoral opportunities in the subsea, renewables, defence and aquaculture sectors.

Neil Gordon, chief executive of the Global Underwater Hub, said, "Subsea Expo 2022 generated meaningful industry discussion, creating a real appetite for the cross-



sector collaboration that will open the doors to new opportunities."

This is our pick of the best exhibitors from this year's event. Concept Cables, Digital Edge Subsea, Flint Subsea, Flow Subsea, J+S Subsea, MAATS Tech, Mocean Energy & Parkburn Precision Handling Systems. Further details can be found on this page and a half.

**Subsea Expo 2023 will take place at P&J Live, Aberdeen from Tuesday, 21st until Thursday, 23rd February 2023. For further information, visit: [www.subseaexpo.com](http://www.subseaexpo.com)**

### Parkburn's successful partnership with MacGregor Cranes reaches new milestone

The MacGregor FibreTrac fibre-rope crane, the first of its kind, has been sold and will be delivered this year. The revolutionary active heave compensated crane provides many advantages including the ability to lift/lower maximum payload to water depths more than 3km, normally this would require much larger cranes on larger vessels.

The crane is the result of MacGregors vision to partner with key technology providers; Parkburn, Lankhorst Ropes, DSM, Applied Fiber and DNV to enhance the performance, efficiencies, and capabilities of their product line.

Parkburn's Deep Water Capstan (DWC), designed specifically for handling fibre rope, is the core of



the crane and when coupled with the Parkburn Lift-Line Management System, provides the means to control, manage and display critical rope data in real-time to the crane operator and supervisors. This data has been key to enabling the world's first DNV-DRS class notation based on DNV-ST-E407 standard. This standard governs how the crane and rope system can remain continually certified based on

real-time measurements of rope health representing a significant departure from earlier certifications methods based on prescriptive rules and periodic inspections.

Parkburn, an expert in the design, manufacture and installation of world class material and product handling systems, supports the global onshore, offshore, military and renewables sectors. Providing true value for its customers through the development of turnkey solutions to support sustainable, efficient, and safe operations, in exacting conditions.

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### Flint Subsea: Emergency quick disconnect specialists

Flint Subsea is a specialist supplier of high-pressure hose emergency quick disconnect (EQD) systems to the offshore oil and gas industry for subsea and topside projects.

Flint Subsea's EQD systems are used to transfer fluids through 2" to 4" diameter hoses from vessels to other vessels or to fixed infrastructure on the surface or subsea. They are designed to protect personnel, the environment and infrastructure. In the event of an emergency, the EQD devices separate and valves close to prevent the contents of the hose discharging to the marine environment.

The mid-line EQD system comprises a pressure balanced breakaway connector, which is mounted on deck or mid-line in a hose subsea. It is held together with prestressed



tension pins designed to break at a predetermined load. Pins break when the hose tension exceeds their strength, initiating the disconnect sequence. Once disconnected, the valves seal prevent discharge from both ends of the connector. The design ensures that marine discharge



is minimised in the cycle. The pressure balanced design ensures that net disconnect loads remain zero regardless of operating pressure or depth.

Flint Subsea design, assemble and test all their units from their headquarters in Ellesmere Port, UK.

**T +44 (0)1244 886090  
[info@flintsubsea.com](mailto:info@flintsubsea.com)  
[www.flintsubsea.com](http://www.flintsubsea.com)**

### MAATS Tech: Supplying quality, offshore engineering solutions since 1989

Subsea Awards Company of the Year 2022 Winners, MAATS Tech Ltd has developed its services over the last 30+ years to become a world leader in mission critical equipment for offshore vessels. Acting as a main contractor for shipyards or vessel owners, MAATS Tech design, build and install bespoke pipelay equipment for both on deck and below deck.

Diversifying to accommodate the growing renewables industry, MAATS provide a cradle to grave approach to engineering consultancy, from upfront FEED studies to the provision of service and support packages to assist their customers during the working life of the equipment.



For over 30 years, MAATS Tech have been the supplier of choice for a variety of deck lay solutions for the offshore industry. Historically serving the oil and gas market, a diversification in global energy production sources has given the company the platform to innovate and create unique, targeted solutions to serve the renewable energy sector and assist

in the march towards a carbon negative future.

Additionally, MAATS have executed engineering work in the aerospace, defence, mining, and aviation sectors. This results from our specialist engineering capabilities, and a reputation for quality and detail.

Our long-established Naval architecture capability has allowed us to engage with conversion projects, where our customers seek a low cost, fast entry to the offshore installation industry.

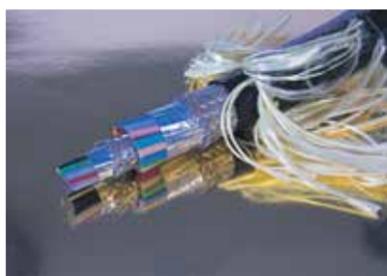
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### Concept Cables: From concept to cable

Established in 2002, Concept Cables Ltd is an independent UK based cable manufacturer. With extensive experience within the cable industry, our committed team of professionals are providing cabling solutions for a broad range of industries including offshore, sub-sea, defence, industrial, control and instrumentation, audio, medical and motor sport.

Offering end to end process capabilities with cables designed by our in-house engineers. With almost limitless additions possible with hybrid custom cables, Concept has the expertise to meet every requirement.

Using the latest techniques and materials, we can manufacture short runs of bespoke cables as low as 100 metres (305') and are focused on



manufacturing 'raw' cable without connectors or terminations – although we are happy to recommend and liaise with one of the top connector and termination companies that we have a close working relationship with.

Whether it is design, prototyping or full production we are there to help with technical advice and support.

Concept Cables is ISO9001 registered and are committed to continuous improvements in all areas. As one of the largest privately owned cable manufacturers in the UK, the investment in a new 80,000 sq.ft. facility will enable us to meet the exacting standards of service which our customer's demand.

**Contact Gary Kelly,  
Business Development Manager,  
T 07495 999047  
[gary.kelly@conceptcables.com](mailto:gary.kelly@conceptcables.com)  
[www.conceptcables.com](http://www.conceptcables.com)  
<https://www.facebook.com/conceptcables>**

### Digital Edge Subsea

Digital Edge Subsea supplies the oil and gas industry with its digital video recording system.

The company, established more than 10 years ago, has nurtured strong customer relationships that has allowed for honest customer feedback, and this has been incorporated into the development of the Version 5 Edge DVR.

Conversations continue and now Digital Edge are pleased to be able to offer further software that will help their customers to serve their clients better.

#### Data Archive App

Digital Edge will soon release a data storage and back-up solution that uses an integral app within Edge architecture, to avoid needing a 3rd party app. Edge Archive handles the transfer of data

from the internal DVR drives to Client storage, either on a NAS, a Raid, or a phased delivery to multiple external hard drives.

Being a Native app, the data transfer ensures that the quality of Live recordings are not impacted by a 3rd party program trying to access the same file that the DVR app is currently using. Ensuring recorded data integrity and quality is of the highest importance.

Archive can act as a Simple data mirror of the correct internal drive data folders, or can be used to create multiple simultaneous backups of Client Deliverables. This can be done in continuous backup or a phased approach i.e. after each dive.

**For more information or a demonstration of the system, contact: [info@digitaledgesubsea.com](mailto:info@digitaledgesubsea.com) or visit: [www.digitaledgesubsea.com](http://www.digitaledgesubsea.com)**



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

## J+S Subsea: Under control

Subsea controls engineering specialists J+S Subsea is growing its team, following recent contract wins valued at more than £1 million.

The 22-strong team is set to grow by up to six members as the Aberdeenshire-based business continues at the forefront of the subsea production control market.

Its core work in oil and gas has expanded with decommissioning projects as well as a strategic move into supporting the offshore renewables sector.

J+S Subsea's expertise in the design of bespoke subsea electrical and hydraulic distribution assemblies means they will be looking for subsea

control engineers. The team is also increasingly in demand in an on-site technical authority capacity.

### Background

The strong growth follows the formation of the company less than two years ago, after a management buy-out of the subsea controls engineering division of SEA, a subsidiary of the independent technology group Cohort plc.

An upturn in new work from emerging marketplaces has seen J+S Subsea Limited deploy client representatives on decommissioning projects and inspection, repair and maintenance campaigns. It moved to new larger premises in Kintore last year, to acquire larger workshops and stores.

Technicians and engineers have been carrying out electrical diagnostics on clients' assets, as well as the design of electrical distribution units and jumpers to reinstate power.

### Net zero transition

Its innovative Legacy Locker initiative has also sparked huge interest in the industry. The open industry portal for the reuse, refurbishment and recycling of subsea equipment experienced a surge in demand due to the COVID-19 pandemic creating supply shortages.

### Contact

T +44 (0)1224 773435  
info@jands.co.uk  
www.jands.co.uk



Phil Reid, Managing Director, J+S Subsea

## Mocean Energy

Mocean Energy is developing a range of wave energy technologies that can harness the power of waves and accelerate the transition to a zero-carbon world.

The Edinburgh company is developing two wave energy technologies:

- The **Blue Star**, a device that will power a range of subsea equipment, inspection and maintenance systems;
- And the **Blue Horizon**, a larger machine designed to generate power for remote island communities up to grid-scale electricity.

Both technologies are based on the same concept – a hinged raft with a unique geometry that improves performance by up to 300% compared to traditional hinged rafts and increases survivability by diving through the largest waves.



Blue Star, Mocean's first commercial product is designed to provide reliable, renewable power for a range of subsea applications such as subsea tie backs, fully autonomous underwater vehicles and reinstating electrical power and communications for stranded assets.

Its compact design means low-cost installation and operations at sea and uses a direct drive generator to charge on-board batteries, providing continual power.

In spring 2020, Mocean Energy entered a collaborative initiative to demonstrate how wave



energy coupled with underwater energy storage can power subsea equipment.

The Net Zero Technology Centre provided grant funding, matched by financial and in-kind contributions from other partners, including Harbour Energy, Serica Energy, Baker Hughes, Transmark Subsea and energy storage developers Verlume.

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The company also design and manufacture a variety of pig launchers/receivers and flushing heads, a range of subsea valves, valve panels for control units, and design and manufacture abandonment and recovery heads used for recovering and retrieving pipelines.

Flow Subsea Ltd places the utmost importance on innovation and quality, which has led to a strong and trusted reputation with clients, for its outstanding first-class service and support. Flow Subsea Ltd is equally as passionate about health and safety, and its commitment to minimising the impact of activities on the environment.

Flow Subsea Ltd strives to exceed industry standards and client expectations, and supplies its products to clients all



over the world in a varied range of sectors including: Oil & Gas, Marine and Renewables.

**For more information, please see the details below:**  
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www.flowsubsea.co.uk

## Machining & Engineering

### Whitehouse Industries names Ernest Engineering as latest acquisition

Whitehouse Industries has announced a raft of new acquisitions as part of its growth strategy to consolidate services in the engineering sector, with Coventry-based Ernest Engineering, the latest to be added to its growing stable.

The purchase of Ernest Engineering includes high precision turned parts specialist Bailey & Wade Engineering and Anchor Inserts, which produces brass threaded inserts designed especially for the plastic-moulding industry.

Stuart Whitehouse, Managing Director at Whitehouse Industries said of the acquisition, "I am pleased to have completed the deal and added Ernest Engineering, which includes Bailey & Wade and Anchor



Inserts, to the growing Whitehouse Industries stable.

"Each of these businesses has undergone significant development over the last 10 years under the experienced leadership of Austin Wade, who oversaw the investment in sliding head CNC machines and property extensions to meet growing demand."

Founded in 1975, Bailey & Wade has built its reputation on supplying a wide range of industries with high-quality precision turned parts. Anchor Inserts was formed in 2005 to focus on the manufacture and supply of brass and stainless inserts for the rotational moulding industries.

Birmingham-based distributor Nutter's Fastenings is also part of Whitehouse Industries, a business created by engineering entrepreneur Stuart Whitehouse to build a group of UK-based mutually beneficial businesses. Further acquisitions in the engineering sector are already planned.

**Contact**  
www.anchorinserts.co.uk

### Vision Engineering reinforces UK manufacturing base with Miltorn acquisition

Vision Engineering, a 64 year old British leading designer and manufacturer of high-quality visual instrumentation and a significant supplier of machined components/sub assembly services to other industrial sectors, has today announced the acquisition of Miltorn Precision Engineering, of Hinckley, Leicestershire, a precision engineering specialist.

The acquisition of Miltorn fulfils a strategic objective to significantly improve Vision Engineering's position global position as a leading designer and manufacturer, by adding scale and capability to the company's existing UK and USA manufacturing base.

Established in 2001 and one of the first UK firms to achieve ISO 9001 2015, Miltorn Precision Engineering has 21 highly skilled machinists and anodisers specialising in high quality components, including high performance lens cases for the optical/movie/camera industries, marine and automotive engineering and high end shop/hotel fitting, Miltorn also has an anodising facility to improve the quality and durability of finished components.



Mark Curtis, Vision Engineering CEO said, "The strategic acquisition of Miltorn Precision Engineering strengthens Vision Engineering's global manufacturing capability, and improves our ability to deliver high quality precision manufactured parts, assemblies and finished products to our combined existing and new customers. It also consolidates our Manufacturing Services division with substantial high end milling, turning and anodising skills and experience."

Ian Mustard, Miltorn Owner and Director said, "Miltorn has worked with Vision Engineering for years and I know their commitment to highly skilled operators, whether machinists or anodisers, producing quality components. We have built up a demanding, high-end customer base in specialised sectors. I am confident that Vision Engineering will implement strategy and investment to take Miltorn Engineering and Bowfran, our anodising division, forward and continue the success built on the capabilities of our staff."

**For more information, please visit:**  
www.visioneng.com

## ESAB launches InduSuite

ESAB Corporation (NYSE: ESAB) announced today the launch of InduSuite (InduSuite.com), a brand-agnostic portfolio of software applications that revolutionises workflow, quality, and business performance, to help fabricators and manufacturers improve operational efficiency. InduSuite offers three key benefits for mixed fleet customers: simplicity for accessing data and documents with an easy-to-use interface; real-time insight into performance, traceability and workforce accountability; and an unprecedented level of control over metal fabrication operations.

Cloud-based InduSuite solutions include WeldCloud Productivity, WeldCloud



Fleet, WeldCloud Notes, and CutCloud for cutting data analytics. Installed InduSuite software applications include COLUMBUS CAD/CAM nesting software for automated cutting and OCTOPUZ for offline robot programming.

The cloud-based applications feature an intuitive interface that enables users to be up and running after an hour of training without IT expertise. The

applications function on a common platform built with state-of-the-art Microsoft Azure, which is among the most secure and reliable cloud architectures.

InduSuite offers solutions suited for operations of all sizes, from small fabrication customers to large companies with fleets of equipment spanning multiple countries. This collection of cloud-based and installed software applications connects equipment and data across all brand platforms so companies can take total control of their operations.

**To learn more, please visit:**  
www.indusuite.com or  
www.esab.com

# Deep-Hole drilling automation is more than part load/unload

By Anthony Fettig – UNISIG Deep Hole Drilling Systems

**F**or deep-hole drilling, part handling might be the most visible automation element, but it's not necessarily the most impactful. Often, it's internal process automation that yields the most significant results even with a manually loaded drilling machine.

When it comes to automating deep-hole drilling, there are challenges unique to the process itself. These include fixturing complexities – where maintaining alignment requires elements such as guide bushings and tool supports not present in a conventional lathe or milling machine – and part attributes such as length and weight.

Long parts mean a long drilling cycle time, and maintaining production rates often requires multi-spindle, deep-hole drilling systems. Unfortunately, stopping a two or four-spindle machine means two or four spindles sit idle until the parts are loaded and unloaded. So in these instances, the more parts in the machine at one time, the more automation can actually inhibit cycle time while the machine is running.



Solving this problem in multi-spindle machines requires internal automation to achieve the objectives of lean manufacturing and one-piece flow. In-machine loaders singulate processes so that even within a small four-piece batch you maintain one-piece flow. The operator or automation device puts in a part and takes a part out and the machine does a bit of maneuvering inside to sequence those four parts in such a way as to minimize spindle downtime while maintaining upstream and downstream processes for one-piece flow. For instance, parts could be loaded onto a smart conveyor, indexed, and lifted into chucks for the drilling cycle before robotic unloading on the out-feed side so that there are no bottlenecks to a steady production flow.

Tool life management is another form of internal automation. Getting feedback to the machine enables the deep-hole drilling process to adapt or halt, if necessary, before tools and parts are damaged.

Tool life management is built into a machine's control, and the machine senses torque thrust and coolant. Chip condition is usually the first indicator of wear, which would otherwise require an operator present to detect, so the machine actually monitors the process and can predict tools starting to wear and identify when they need to be changed. A tool life management system also can count distances drilled and the number of cycles then prompt a tool change at the appropriate time.

That kind of in-machine automation smooths the path for external automation. As the process builds, highly standardized options for robot-ready machines such as an automatic door, workpiece-present sensors and programmable workpiece fixturing makes it easier to add a robot at a later date. These robot-ready machines also create efficiencies before they are fully automated. Even with manual



loading, the automatic doors and programmable clamping make the process more efficient.

In UNISIG's experience, an embedded reamer tool changer enables manufacturers to manage significant throughput increases, even with an operator. With

this technology, operators can maintain the pace of production loading the machine, while eliminating the task of inserting reaming tools for each cycle. This allows the operator to redirect efforts towards tasks such as additional quality checks and off-machine setups.

UNISIG is also exhibiting at the AMB Show in Stuttgart, Germany 13th-17th September 2022. Further information on all machines of the UNI series and the complete UNISIG machine program is available at: [www.unisig.com](http://www.unisig.com) or follow the company on LinkedIn and Twitter (@UNISIG).

AMB | See us at the AMB Show, Stuttgart, Germany on the 13th-17th September 2022 International Exhibition for Metal Working

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# Pets Corner ensures the efficient flow of pet products in and out of the warehouse with robust Wi-Fi from Redway Networks

**P**ets Corner is the second largest specialist pet retailer in the UK and a leading ethical pet retailer. Its warehouse is a busy and complex environment that relies on many different devices and software to control operations, so it benefits from high-performance Cambium Wi-Fi from independent networking and Wi-Fi experts, Redway Networks. The Cambium cloud-managed solution provides reliable connectivity and communications from Pets Corner's warehouse operations and distribution service to its 150 stores.

Cambium Networks provides a fast, consistent Wi-Fi signal



throughout Pets Corner's warehouse to support automation and ensure the efficient flow of pet products in and out of the warehouse.

Richard Smith, IT Infrastructure Manager at YourDMS and Project Manager for Pets Corner says, "Cambium maintains efficiency and accuracy in the warehouse and distribution facility and supports Pets Corner's growing supply chain."

**Redway Networks provided an end-to-end service**  
"Our wireless project was complex as it was designed 'off plan' and we wanted to avoid typical warehouse Wi-Fi issues such

as dropouts and patchy coverage. Redway Networks were flexible throughout the whole project and worked easily around construction issues. Redway also anticipated from the onset how the installation of the warehouse racks and electronics would impact the performance of the Wi-Fi and had the experience and insight to get the foundations right from the start."

**Cambium supports fast-paced operations**

Redway Networks provided Pets Corner with a three-step delivery approach which included a predictive survey, installation, and post construction survey to ensure optimum wireless coverage and performance from its Cambium



solution which includes cnPilot indoor and outdoor access points for automation and transparency in the warehouse, office and outside. The indoor access points were installed at each end of the warehouse aisles with 30-degree directional antenna to ensure the signal is always strongest where needed. The outdoor access points connect the lorry bays and move stock straight to the warehouse shelves using Pets Corner's fleet of auto-positioning forklift trucks (which are fully integrated with its stock control system). Omni-directional access points support mobile devices and access to warehousing software in the office.



The Cambium wireless network is the foundation for all Pets Corner's operations from stock into the warehouse to delivery out to its 150 stores, so having a robust, secure system that never loses signal has improved its supply chain.

Richard says, "Pets Corner is benefitting from a seamless wireless communication network that supports all its warehousing and logistical operations. The Wi-Fi provides complete warehouse coverage for fast, accurate



automated stock replenishment, which has improved efficiency. What we love about the Wi-Fi is that there is no difference in coverage when you walk around the warehouse and no drop-offs for the end user, which means the access point handover is seamless. The collaboration of Redway Networks and Cambium delivered on every front and I look forward to working with Redway Networks on future projects."

**To find out how Redway Networks can help your business improve warehousing and logistics, please contact us on: 01908 046400, email: info@redwaynetworks.com or visit: https://www.redwaynetworks.com/warehouse-wifi To read the full Pets Corner case study, please check below: https://tinyurl.com/5xa3wt8p**



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## Engineering Solutions Live Review – Top Exhibitors

### Engineering Solutions Live 2022

Engineering Solutions Live was back again this year on the 24th March! Engineering Solutions Live is the UK's one-stop-shop for new contacts and thought leadership in the engineering sector. Offering market-leading suppliers, expert-led conference sessions and the chance to create new connections, Engineering Solutions Live is the perfect networking opportunity.

Engineering Solutions Live combines four complementary events: Engineering Materials Live, the FAST Show, Make Measurement Matter and PCB Design & Manufacturing Live. This enables the show to offer a comprehensive must-attend event, in a single-day forum for all engineering, design and manufacturing professionals.

Engineering Solutions Live provides access to a number of technical workshop sessions led by industry leaders. The event also offers over 100 other market-leading



engineering and manufacturing suppliers for visitors to explore, network and discover the latest innovations.

Engineering Solutions Live will be returning once again on the 23rd March 2023 at the British Motor Museum, in Gaydon.

For more information, please see the details below: [www.engineeringsolutionslive.co.uk](http://www.engineeringsolutionslive.co.uk)

### Maximise performance & minimise downtime

Material handling is fundamental for manufacturing, processing and shipping products to market. An efficient system will maintain performance over time and keep production moving. To ensure this, conveyor components need to be high quality.

BNL have over 50 years' experience of developing plastic conveyor system bearings. Our design and moulding techniques produce bearings that wear less and out-last equivalent products on the market. We supply to material handling, food processing, glass processing and electronics production clients. Our range includes end cap bearings, sealed end cap bearings, skate wheel bearings, wheels and rollers.

Our acetal products can withstand corrosion from chemical exposure and washdowns that cause low grade materials and metal to degrade. Our range of PEEK and UHMWPE products have glass, PE or ZO balls to withstand harsh



chemicals and extreme temperatures.

As thermoplastics are naturally lubricated, our bearings do not need grease that can leach and contaminate goods, and requires frequent maintenance to replace it.

By supplying high quality bearings, BNL reduce the requirement for maintenance and lessen the risk of bearing wear and failure in conveyor systems, ensuring continual operation and supply at optimum performance, whilst avoiding costly downtime.

<https://bnl-bearings.com/bnl-standard-products>

### Introducing Fluregiene 200™

Curtiss-Wright Surface Technologies, Everlube® Coating Products have partnered with BioCote® to expand their fluoropolymer coating product range to create Fluregiene 200™: an antimicrobial coating that is ideally suited for many surfaces and environments.



Based on existing Everlube® coating technology, the new Fluregiene 200™ is a unique fluoropolymer coating that offers low friction, easy-clean properties combined with superb chemical and abrasion resistance. With a view to improving hygiene standards, Everlube® Coatings have integrated BioCote® antimicrobial technology to protect the coating from microbes such as bacteria, mould and fungi. Benefits of applying antimicrobial technology into the Fluregiene 200™ include:

- Anti-fouling**
- Low COF Surface coating (0.08 – 0.2 static)
  - Corrosion resistance and excellent chemical resistance

- Excellent chip and abrasion resistance
- Reduces and prevents build-up of contaminants
- Excellent flexibility
- Dirt and debris less likely to attach to the surface

- Microbial & bacteria growth inhibitor**
- Using patented BioCote® antimicrobial technology against microbial growth
  - Inhibits and reduces microbial growth on protected coating
  - Protects treated surfaces against bad odours, staining and material degradation

**Easy clean and reduced cleaning intervals**

- Provides continual microbial reduction on coating
- High PTFE content allows easy wipe down and cleaning
- Provides more hygienic and cleanable surface than brushed or finished steels

Applicable to a wide range of parts and components such as door handles, elevator buttons, airport seating and gym equipment, the Fluregiene 200™ will be highly beneficial for these surfaces. BioCote® also has real-life data to support the application of this antimicrobial technology in environments such as health care, transport, education, public areas and much more.

For more information on Fluregiene 200™ and Everlube® Coating Products, please contact our coatings team on: **T +44 (0)1386 421444** [info@cwst.co.uk](mailto:info@cwst.co.uk) [www.cwst.co.uk](http://www.cwst.co.uk)

### Polydist UK: Your one-stop polymer supermarket!

Polydist UK are one of the UK's leading and longest-standing polymer distributors, partnering with some of the world's most well-known suppliers. Acting as a key part of the Polydist Global network, our UK office works closely with the European Polydist offices, Head Office in Dubai and various Polydist agents across the globe, bringing the most innovative, high-performance, quality, and reliable



products to our UK & Ireland based customers.

Close relationships with our suppliers allow us to act as the vital link in your polymer supply chain. A fundamental part of our business is understanding the aspirations and requirements of our customers to meet their needs efficiently.

We have made great investments in

expanding our product portfolios in recent years, particularly our specialist and engineering range, which includes SABIC high performance polymers alongside Radici and Elastron products. Our sustainable partners include Braskem Green and Veolia while our commodity offering includes materials from core suppliers such as SABIC, Braskem and Equate.

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# Watlow signs agreement to acquire Eurotherm from Schneider Electric

Watlow, a designer and manufacturer of complete industrial electric heating systems, is pleased

to announce that it has signed an agreement to acquire Eurotherm® from Schneider Electric, the global leader in the digital transformation of energy management and automation. The terms of the transaction were not disclosed.

Eurotherm is a premier global provider of temperature, power and process control, measurement and data management equipment, systems, software, and services for global industrial markets. The company's headquarters are in Worthing, UK, with core manufacturing operations in Łędziny,



Rob Gilmore, CEO at Watlow

Poland, and a headcount of about 650 people worldwide.

"Watlow is excited to invest in this innovative product portfolio and professional team," said Rob Gilmore, Watlow's CEO. "Combining Eurotherm's complementary controls technologies with Watlow's focus on thermal systems, our shared engineer-to-engineer sales models and our focus on common

markets will allow Watlow and Eurotherm to better serve all of our respective customers. We are impressed with Eurotherm's heritage in the controls industry and strong reputation for innovation and quality, so we are looking forward to welcoming the Eurotherm team to Watlow."

Gilmore continued, "Watlow is investing aggressively right now, including development of our operations in Europe and Asia to ensure we can support and respond to our customers wherever they need us. This acquisition will help us expand our presence in Europe and extend our electronics and controls capabilities globally."

"We are very pleased to be joining the Watlow team," said Chris Ashworth, Eurotherm's Managing Director. "Watlow is a known leader in the industry, and I believe that combining our strengths will open new opportunities and create value for our customers."

To find out more about Watlow, please visit: [www.watlow.com](http://www.watlow.com)

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## The EL-WEM, EasyLog's new Wi-Fi Indoor Air Quality Monitor

Designed to help ensure high levels of air quality at work and in the home. Measuring particulate matter, VOCs, temperature, humidity and pressure the EL-WEM is designed with your comfort and safety in mind.

Easy to set up using the EasyLog Cloud App, the EL-WEM uses a five-stage traffic light system to rate air quality from Excellent down to Inadequate, displaying colours from green through to red with each light corresponding to the status of the air quality (Excellent, Good, Fair, Poor and Inadequate). A sounder alerts those nearby if IAQ drops to Poor or Inadequate.

The EL-WEM's sophisticated sensors measure

both PM2.5 and PM10 particulate matter, and also VOCs that come from paints, lacquers, and paint strippers, cleaning products, furnishings, glues, adhesives and alcohol.

When connected to the EasyLog Cloud, your EL-WEM can be configured to send notifications of poor air quality by email and SMS messages. You can also view, analyse and download your measured data.

View and purchase the EL-WEM here and keep an eye out for the rest of the EL-WEM range coming out soon.

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## Personal Protective Equipment Company of the Month

# Innovative PPE products for an ever-changing world **KIMTECH™**

In this issue of Industrial Process News, we are pleased to announce Kimberly-Clark Professional as our Personal Protective Equipment Company of the Month.

Kimberly-Clark Professional is based in Roswell, Georgia, USA. The Kimberly-Clark Professional Scientific Business is a global business with its UK office based near London, in Walton Oaks, and further operations in Europe and around the world. Kimberly-Clark is the parent company and was founded in 1872 and boasts 150 years of excellence in providing better care for a better world.

"Kimberly-Clark Professional provides business-to-business solutions for customers in a wide range of industries. The Scientific business offers an array of protective apparel, gloves, respiratory protection, and wiping solutions that are engineered to reduce contamination risk while enhancing efficiency, performance and comfort," stated Kristin Barrett, EMEA Scientific Marketing Manager.

The company delivers:

- Unmatched contamination control expertise
- Reliable, consistent product quality and supply
- Innovation for optimal performance – through decades of experience in the life sciences
- Sustainability leadership – in product design, responsible material supply, manufacturing and in support of people and the environment.



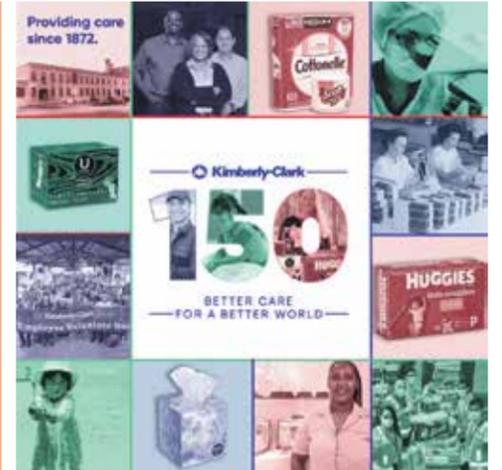
Kimberly-Clark Professional and the Kimtech™ Brand have been trusted partners to labs, cleanrooms and research facilities for more than 60 years. Product offerings include Kimtech™ single-use garments and accessories, Kimtech™ nitrile and latex gloves, Kimtech™ masks, and Kimtech™ wiping and cleaning solutions.

"We deliver seamless, worry-free protection that minimises risk and maximises performance. The Kimtech™ Brand ensures protection of scientists and the scientific process. We also offer the only manufacturer-led PPE recycling programme. Now in its 11th year, The RightCycle™ Programme has reclaimed over 1,670 metric tons of waste globally that would otherwise have been landfilled," stated Kristin.



Kimberly-Clark Professional is not only widely recognised for its products, but also for a programme called APEX which provides a complimentary, consultative approach that ensures a seamless transition to the Kimtech™ Brand of products. "The APEX service covers everything from site surveys, application assessments and standard operating procedure (SOP) review to best practices, aseptic technique and training. All of this can be conducted virtually or in person at the customer location," said Kristin.

Recent innovations include Kimtech™ Opal™ Nitrile Gloves. The powder-free gloves are manufactured without vulcanisation accelerators or added sulphur and do not contain natural rubber latex, thus reducing the risk of Type I and Type IV glove-associated skin reactions as well as protecting the application. Other features include a patented technology to protect the skin known as Low Derma Technology and textured fingertips for enhanced grip and tactile sensitivity for safer and more efficient processes.



The gloves are also Category III PPE product certified according to the Regulation (EU) 2016/425 and the Regulation (EU) 2016/425, certified EN ISO 374-1 Type B Chemical Splash protection, EN 374-4 Resistance to degradation by chemicals, and EN ISO 374-5 Micro Organism and VIRUS Protection.

With Kimberly-Clark's mission of bringing better care for a better world and the Kimtech™ Brand's seamless, worry-free protection for people and scientific processes, future growth for the company seems inevitable. Kristin commented, "We plan to grow our business and our offerings to continue to provide the highest levels of protection and comfort to our customers."

For more information, please see below: [www.kimtech.eu](http://www.kimtech.eu)

For information on The RightCycle™ Programme, please visit: [www.kimtech.eu/solutions/sustainability-rightcyclr](http://www.kimtech.eu/solutions/sustainability-rightcyclr)

## Knowledge Management & Delivery Company of the Month

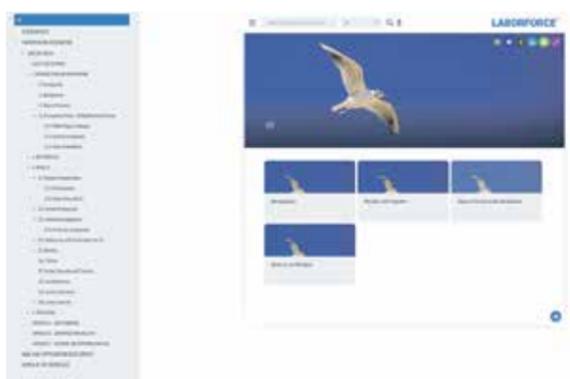
# Turn your documents into an unbeatable, business-accelerating edge with a revolutionary new way to access knowledge

In this issue of Industrial Process News, we are pleased to announce Theum AG as our Knowledge Management and Delivery Company of the Month.

In most businesses, sharing knowledge still consists of overwhelming users with passive access to oceans of documents. After a search engine has narrowed a query to hundreds or even thousands of hits, users are left with the frustrating task of launching and sifting through documents to piece together the knowledge they need. The process is slow, haphazard, and error-prone, and hinders your workforce from achieving excellence.

If daily tasks include efforts like reporting large purchases of merchandise imported from China, providing customers with fast information about your company's products, ensuring compliance with regulations in over 100 countries, or having to track down the source of the manufacturing problems and adjust procedures to eliminate them, accessing knowledge from multiple sources is a major challenge – one that Theum was designed to address with a click.

As a reputable software publishing house, Theum AG has developed intelligent software called Theum that helps transform libraries of documents from all over your business into attractive, feature-rich knowledge portals that are optimised for fast, intuitive access and navigation on every device.



Its one-of-a-kind, AI-enhanced search delivers exactly the knowledge users need for any task with a single click. This could be for HR, production, corporate, legal, sales, or research tasks within your business. It can be exasperating and time-consuming scrolling through numerous documents to find the exact information you need and piece it all together into an answer. Theum delivers the required information with a click-extracted from every relevant document and organised by context, ready for use on any device.

One of its many benefits is that even new users are able to start straight away with the software, taking full advantage of its high speed, accurate information and expertise. There is no need to change any existing processes or system, as Theum offers a new intelligent way of sharing access knowledge.

This systematic, revolutionary platform was developed in 2016 by Paul Caspers, CEO, and Richard Reed, CTO. Based in Germany, Theum AG offer, "The next generation, disruptive technology that completely revolutionises the way businesses deliver and access knowledge, allowing them to accelerate processes by automating knowledge processes from authoring to delivery to access," stated Paul Caspers.

With almost every product in the current market stuck in the world of document-orientated search, this can lead to time-consuming risks missing important

knowledge. "Search with Theum, and instead of hit lists you get all the knowledge you need from all relevant sources on a page, organised by context and delivered as a ready-to-use 'answer'." No need to launch documents or PDFs ever again," said Paul Caspers.

Recently, Theum 4 for the Azure Cloud was released allowing businesses to get started with their own private version of Theum in just a few clicks. Richard Reed commented, "No custom development or integration project is required to use it, just configure and start. Theum 4 works out of the box with Microsoft Login and SharePoint Online and is scalable to meet any size knowledge needed." Business and Knowledge Managers from global organisations including Siemens, Suez, and City of Hamburg have all embraced Theum to reduce costs, enhance service levels and improve their competitive edge. Ideal for all sized companies of all sectors, Theum 4 is available for a free trial today.

There is still more to come from Theum AG as Richard Reed explained future plans, "We are currently finalising a new version of Theum (Theum AKS) that runs under Kubernetes, making it serverless and infinitely scalable, especially in the Azure Cloud. This will be followed by the Theum Cloud in 2023, which is currently under development and will support cloud registration and usage without requiring customers to have their own Azure tenant."

**Theum is proven, enterprise-scalable, and generates success on a continuous basis. If you're looking to improve your company's quality, productivity, compliance, and agility in an instance, connect your business to Theum today using the information below:**

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# On a Roll! Printed laminate containing over 30% PCR content

Cake Décor is the UK's largest manufacturer of cake decorations, producing extensive ranges for Plant Bakeries, Blue Chip Food Manufacturers, Artisan Businesses and Major UK Supermarkets.

They were founded in 2006, owned by Orkla since April 2021 and have built a strong reputation for quality product and the highest customer service. They have a 'right first time' approach to NPD and have innovation at their very core, so when Waitrose wanted to change to printed film for

their Ready to Roll Icing it was an easy discussion to have to suggest changing from a traditional laminate to one with post-consumer recycle to beat the Plastic Tax being introduced in April.

According to the Government website, the new tax is being introduced to, "Encourage the use of recycled rather than new plastic within plastic packaging. This will in turn stimulate increased levels of recycling and collection of plastic waste, diverting it away from landfill or incineration."

"Moving to a PCR film was made easy by working with National Flexible. It ran first time on our packing lines and both we and Waitrose are very happy with the result," said Robert Simpson, Cake Décor.

T 01274 685566  
[sales@nationalflexible.net](mailto:sales@nationalflexible.net)  
[www.nationalflexible.co.uk](http://www.nationalflexible.co.uk)  
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## The one stop shop for all of your labelling needs

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

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

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

[sales@datamarkuk.com](mailto:sales@datamarkuk.com)  
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## Process & Control



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## Hydrogen Compatible Pressure Measurement

Hydrogen offers a cleaner, secure and more affordable source of energy with the potential to drastically reduce and tackle CO<sub>2</sub> emission levels.



With that in mind ESI are committed to offering a product range that is not only versatile and environmentally friendly, but also offers the same outstanding performance and stability that they are known for.

### What is Hydrogen Compatibility?

Samples of the materials used in the manufacture of the range were tested based on ISO 11114-2:2017 in accordance to the European Regulations EC 79/2009 and EU 406/2010 to determine an 'embrittlement index' of the material when placed in a saturated environment over extended periods of time. Results have provided a pass rating to the compatibility of the material against Hydrogen.

### The material

The pressure diaphragm and threaded pressure port are machined from a specialist Titanium alloy specifically designed to withstand harsh and demanding environments. This, along with the non-oil-filled sensor and high integrity stainless steel housing results in a robust and versatile unit that offers excellent media compatibility across a range of environments.

### Applications

Hydrogen is already used in a growing variety of industries, and although the Oil & Gas sector still remains the predominant source of energy supply and usage, there are significant efforts being made to find an alternative.

For more information on Hydrogen, contact ESI on: 01978 262255 or email: [sales@esi-tec.com](mailto:sales@esi-tec.com).

# 175 years of providing world leading maritime services

In this issue of Industrial Process News, we are pleased to announce Inchcape Shipping Services as our Maritime Services Provider Company of the Year.

Established in 1847, Inchcape Shipping Services (Inchcape) is the result of a gradual evolution of successful acquisitions and organic growth that developed it into a broad port agency network, helping customers to trade successfully and more efficiently in every port around the world. Today, Inchcape stands as one of the largest maritime services providers in the world. Headquartered in the UK it has over 260 offices in 60 countries and a team of over 2,700 professional and committed staff.



Chris Crookall, Chief Commercial Officer, Inchcape Shipping Services

Its worldwide infrastructure, extensive local knowledge and partnerships have enabled Inchcape to drive a positive change in the industry for 175 years. Inchcape offers a range of services orientating around delivering port calls that enable businesses to ship smoothly and trade successfully. As a leading local ships agent, its services cover everything from arranging crew changes, booking a slot in the port, arranging food and spares, to managing the process of customs and immigration so ships can come in and out of the jurisdiction. Given that 90% of everything we consume is delivered on a ship underlines the value and importance of these services in our current global economy. "It's crucial that our services are provided in the most efficient, timely, safe and compliant way. Certain moments in history, such as COVID-19, the global supply chain disruption and the grounding in the Suez Canal prove time and time again just how important our services are as shipping is the lifeblood of the global economy," said Chris Crookall, Chief Commercial Officer.

Throughout its 175 years of history, Inchcape has delivered uncomplicated working solutions that are reliable, cost-effective, operationally efficient, operationally consistent, sustainably minded and compliant. As well as being in accordance with global government standards and local legislation, it strives to deliver a best-in-class service no matter where its customers vessels call from around the world.

Inchcape also provide managed solutions for its customers, which are more colloquially referred to as 'hub services'. "A hub solution is where we not only provide the local agency service co-ordination, but where we manage outsourcing on behalf of ship owners or charters. Our services extend to some of the largest oil and gas companies in the world, as well as increasingly large traders and dry bulk companies who engage us as their potential hub agent meaning that we not only act as their agent in a local port, but we appoint the local agent on their behalf, be it Inchcape or another agency. We effectively become a global control centre for them, appointing agents to execute the port calls, ensuring service delivery KPIs are achieved, that disbursement accounts are correct and find ways to improve the customers profitability through vendor selection and strategic sourcing," explained Chris.

Since 2019, Inchcape has implemented operational changes to drive transparency across many areas. "There is an increasing need for transparency in the shipping agencies business, and we deliver this through our governance, compliance, and through our huge investment in technology. Our World of Ports and Optic systems enable our customers to see in real time everything that is happening in



Dry bulk operations in Mauritius

ports around the world related to not only their vessels but also the wider port eco system in general," said Chris.

In closing, we asked Chris, what makes the company unique in its field, he answered, "We are unique amongst the global agents in that we have a dedicated global strategic sourcing team whose prime focus is to manage and optimise the list of

7,000 plus vendors that we have around the world and make sure they fulfil strict compliance criteria but also fulfil cost optimisation and value criteria on behalf of our customers."

For more information, please see below: enquiries@iss-shipping.com www.iss-shipping.com



Inchcape Officers on Duty in Valparaiso



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# Suncombe celebrates sixty years of continuous development cleaning and critical process systems



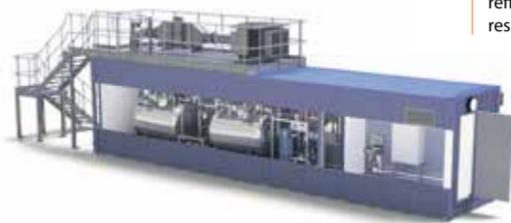
**S**uncombe started trading in 1961, working on the then, new technology of Clean In Place (CIP). In 2021, it celebrated 60 years by helping the world's vaccine manufacturers meet the challenges of the pandemic, as well as continuing to provide equipment to the wider critical processing sectors.

Founder, David Overton, had previously worked in the development of CIP technology, which allowed production machinery to be cleaned without dismantling it and proved to be a revolutionary breakthrough for the pharmaceutical, food, dairy and beverage sectors. CIP provided great health and safety benefits plus great savings in time, money and resources.

As the design of the processing equipment was not always suitable for CIP, the company expanded its operations to incorporate additional areas of processing technology. First, it joined with DA Engineering, which enabled the manufacture of sanitary tanks and pressure vessels, incorporating CIP. Next came LT Engineering, with its knowledge of detailed engineering and new precision techniques. Also in this period, utility and transfer panels were developed and introduced. In the 2000's CIPProcess, joined Suncombe to incorporate knowledge of niche cleaning and innovative processing and engineering systems.

#### Knowledge

New technologies were developed, including biowaste decontamination systems, requiring critical processing



knowledge gained by Suncombe. Cabinet washers were introduced for washing process equipment, along with USP water storage skids and solution preparation systems.



Biowaste decontamination systems and GMP Washers were developed along with CIP technology to incorporate changes in automation, control and instrumentation areas. Cabinet washers were transformed into GMP Washers to provide a validated GMP method for washing process equipment.

As environmental performance became a key element of processing during the next decade all product ranges were refined to minimise waste and energy usage. This initiative, resulted in a number of new products and technologies across the range.

#### Pioneers

Suncombe has pioneered the development of innovative solutions for CIP and biowaste decontamination. The company has a highly experienced team, with a wealth of technical experience and knowledge in all the relevant disciplines. It operates and manufactures from its

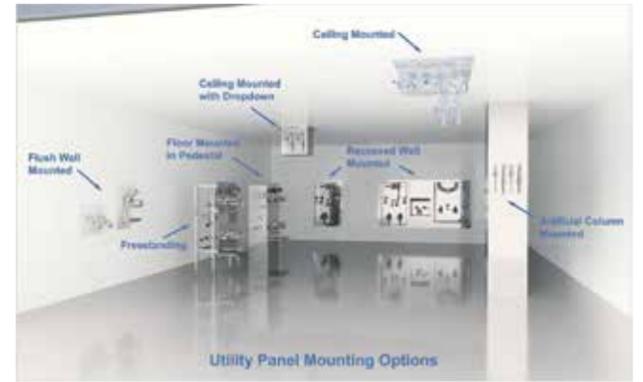
base in Enfield, London, UK and globally through an extensive network of sales/service agents.

Having such a strong team in one place allows the company to carry out almost all of its work in-house, under a direct control and quality management systems, observing robust health and safety procedures. Every project helps to inform future commissions and to offer continued support for all the installed systems throughout their lifetime.

#### Present and future

Today the company is still run by the family. It has a global client base of blue chip companies, supplying 17 of the top 20 biopharma companies in the world, government research institutes and other critical processing companies.

During the COVID-19 crisis, not a single day of production was lost and flexible working practices to protect its staff were adopted, while continuing to serve companies offering vital products to fight the virus. Recent installations include a designed, built and delivered high specification biowaste effluent decontamination system, to support the expanding COVID-19 vaccine production of a global manufacturer in the UK. This involved a revolutionary solution – mounting the decontamination systems in purpose-built containerised modules, with full containment barriers built within them.



Suncombe was also commissioned to help develop a set of utility panels for an extremely fast delivery to a vaccine manufacturer. These utility panels were used for point-of-use connections for utilities in a cleanroom environment critical for the production of a COVID-19 vaccine.



Continuous innovations and development are the company's ongoing objectives, using engineering excellence driven by integrity. In recent years new equipment has included the MicroEDS low volume biowaste treatment system, offering flexibility for low volume users; and the PureVessel™ range of systems which are pre-validated bioprocess vessels and CIP systems combined for hybrid single use facilities.

The company looks forward to many more decades of independent trading and service to the biopharma, medical, research and other critical processing industries.

**For more information, please see below:**  
**T +44 (0)208 443 3454**  
**mail@suncombe.com**  
**www.suncombe.com**

# Where clean matters most



**In this issue of Industrial Process News, we are pleased to announce Contec® as our Contamination Control Company of the Month.**

Manufacturing on three continents with facilities in United States of America, China and the UK, Contec is a leading manufacturer of contamination control products for critical cleaning and disinfection in manufacturing environments worldwide.

Its team of technical specialists and sales representatives are based in Europe, North and South America and Asia. The company serves its European customers from a customer service and warehouse in Vannes, France, where these facilities and dedicated team members give Contec the ability to provide product and technical support to multi-national customers with global needs.

Contec has an extensive range of cleanroom wipes, mops and disinfectants that are used in various industries across the world including biomedical, pharmaceutical, medical device, microelectronics, optics, semiconductor, data storage, lab animal, automotive OEM, aerospace and other critical industrial applications. Established in 1988 by Jack McBride and Jim Smith, Contec has more than 30 years of experience and therefore understands the unique cleaning requirements to each varying market.

"We have a vision to be the global leader in contamination control, delivering positive outcomes to our partners



operating and innovating in the world's most critical and evolving markets. Contec's customer-first approach and commitment to quality and innovation bring the most effective solutions to the most critical environments. Our sales and technical support teams are fully trained to assist customers in finding or creating a Contec product that best meets their needs," stated Karen Rossington, Marketing Manager.

Some other product innovations include knitted, woven and nonwoven wipes, presaturated wipes, sterile and non-sterile wipes, disinfectants and solutions, mops, wall washing systems, sponges and swabs. Contec takes pride in bringing custom solutions to critical problems and has a leading R&D department dedicated to bringing the latest innovations to the market.



"In 1992, Contec pioneered the use of presaturated wipes for industrial use. Over 30 years of industry-leading innovation has led to one of the widest ranges of contamination control consumables for cleanroom applications. Recent innovations include wipes with guaranteed low endotoxin levels and wipes made from recycled plastic bottles.

Most of our products have been developed by listening to specific customer problems and creating products to meet these requirements. This includes unique disinfectants, hands-free mopping systems, patented mop heads and most recently presaturated microfibre wipes," explained Karen.

Contec's presaturated wipes include a contribution towards reducing solvent use, are convenient for hand wiping, reduces airborne VOC's, increases process control and increases reliability. For this range, Contec® offers various PROSAT presaturated wipes packaging options that include



convenient peel and reseal pouches, perforated rolls, and bulk dispensing containers.

Contec strives to be one step ahead of the competition, maintaining its leading position in the market. Its portfolio is the by-product of a continuous effort towards future expansion that is set to see its product range and facilities grow on a global level. Karen commented, "Recent expansion has included a new warehouse in South Carolina and Suzhou, China, and new manufacturing lines installed in our main manufacturing plant in Spartanburg. To cope with the increased demand for our range of cleanroom disinfectants we have broken ground on a new larger manufacturing cleanroom in the North of the UK, which should be operational in 2023. Another exciting installation in 2021 was the addition of a solar farm to complement our existing roof mounted solar panels which now allows us to generate over 50% of our energy usage."

From manufacturing pharmacies in hospitals through to multi-national pharmaceutical manufacturers, vaccine and medical device manufacturers, Contec provides the right solutions for your needs. In closing, Jack McBride added, "The Company's key strength continues to be the fabulous team of dedicated individuals who embrace our culture that thrives on innovation, diversity, and work-life harmony. This is an exciting time to be at Contec!"

**For more information, please see below:**  
**T +33 (0)2 97 43 76 98**  
**infoeu@contecinc.com**  
**www.contecinc.com/au**



# Electronic design for today's world

In this issue of Industrial Process News, we are pleased to announce MARL International as our LED Lighting Company of the Month.

Established in 1973 by former Chairman Brian Ainley, MARL International started out as a medical equipment manufacturer before moving to LED design and manufacture in the late 1970s. Today, MARL International design and manufacture a core product range of high quality, high reliability LED panel indicators, LED replacement bulbs and PCB mounting LEDs to be used in professional applications such as status panel indication and push button switches.

"We work in a range of sectors, designing and manufacturing speciality lighting for the maritime, defence, rail, scientific and medical markets. We also supply a range of enhanced R9 tech, high CRI LED lighting solutions, ideal for use in film and broadcast lighting, and public space lighting such as in museums and art galleries," stated Graham Round, Technical Sales Manager.

From its in-house design and manufacturing facility based at MARL Business Park in Ulverston, Cumbria on the outskirts of the Lake District, all products are designed and manufactured using high quality, highly reliable components. As well as offering a bespoke and semi-custom service for its core product range, "We also offer a concept to manufacture service for speciality lighting products and solutions. Our portfolio includes providing large scale LED lighting solutions in applications such as defence, rail and tourism. We work with our clients to understand their requirement; our team of specialist engineers will offer a design and prototype service, and once build has begun, we are happy to provide



installation and ongoing support from our specialist team," added Graham.

MARL International serve a global customer base offering a vast range of products entirely suited to defence lighting applications for ship, submarine, vehicle, and ruggedised electronics that are backed and supported by a team of highly knowledgeable support professionals. "Our ship lighting range for example has 14 core product families of luminaires, floodlights, task and amenity lighting. We have manufactured specialised lighting for land vehicle systems, and our electronic systems are agile, robust and durable. Our LED systems provide significant power and operating costs savings while delivering outstanding performance in challenging environments, many of these systems have been created using our concept to manufacture service," explained Graham.

MARL has the capabilities to build bespoke products to MILSPEC, DefStan and STANAG standards, which has enabled them to work with one of the world's largest defence contractors BAE Systems. MARL was tasked with the design, qualification, manufacture and supply of a complete suite of internal and external lighting systems and associated control systems for the Royal Navy's Type 26 frigates. Whilst required to work within the confines of exacting defence standards, MARL were determined to reduce the whole life cost of running the lighting systems for the Royal Navy. The collaboration with BAE Systems resulted in a highly efficient lighting system with low running costs, user specific performance characteristics and intuitive controls. In total, more than 2,500 lighting fixtures, 300,000 LEDs, and more than 1 million components are used in lighting each ship,



which marked an incredibly successful collaboration for the company.

2021 was a year of many changes for MARL, implementing a rebrand and refreshed logo and website all in aid to enhance customer experience. Furthermore, MARL added Anglia Components as a Master Distributor for the UK & Ireland and Global Electronics as a Master Distributor for India, Bangladesh, Pakistan and Sri Lanka, which will overall improve their coverage, customer experience with increased logistical support and enhanced stock holding.

In closing, we asked Graham what the future holds for MARL, she responded, "2022 is shaping up to be a very exciting year for MARL. Now we have completed the rebrand process, we are planning to attend some exhibitions. We will be attending IAAPA exhibition in September and Euronaval in October. Our team are looking forward to catching up with clients and customers and presenting our services the market."

For more information, please see below:  
T 01229 582430  
sales@marl.co.uk  
www.leds.co.uk



## Oil, Gas & Offshore

# ECO PHYSICS, measurably better!

In this issue of Industry Update, we are pleased to announce ECO PHYSICS AG as our Environment, Health and Process Control Company of the Month.

Since 1989, ECO PHYSICS AG has had a passion for innovation. On a mission to contribute its know-how and technology to environmental preservation, human health and industrial innovation, the company believes fulfilling a social responsibility is just as important as economic achievements.

ECO PHYSICS AG is committed to offering innovative analytical solutions for measurement tasks in the field of environment, health and process control. With an ECOlogical leadership, the company is dedicated to sustaining the environment through its business activities. Dr. Grisca Peter Feuersänger, PhD, Head of Sales & Marketing explained the role of the company



in more detail, "next to carbon oxides, the reduction of nitrogen oxides in our atmosphere is the decisive factor to diminish the ozone appearance on ground level and the greenhouse effect in the stratosphere. With this in mind, we offer innovative analytical solutions for measurement of nitrogen oxides and related gas components like ammonia, in the fields of environment, health and process control. With our interdisciplinary research and development team we deliver customer oriented, tailor-made products and services."

Headquartered in Dürnten, Switzerland, ECO PHYSICS AG also has one office in Germany and one in the United States and is present throughout the world. As a supplier of gas component detector technology, ECO PHYSICS AG's products provide many benefits for the industry.

ECO PHYSICS AG offers a broad range of nitrogen oxide analysers for fast and precise nitrogen oxide monitoring in



various fields of applications. Following a product portfolio update in 2020, the latest nCLD series by ECO PHYSICS AG uses a new graphical 7-inch coloured touch screen by which the instrument is locally operated from, with each NOx analyser capable of measuring various parameters combined with high adaptability to a multitude of sampling conditions. The range includes nCLD Economical Line, nCLD Modular Line, nCLD Supreme Line, and nCLD Ambient Line.



Dr. Grisca Peter Feuersänger explained: "Our analysers contain the widest variety of instruments and application types, measuring from 10,000 ppm down to 1 ppt (part per trillion). Besides the wide application coverage, each instrument also has remote operation and service access capabilities." Suitable for use in automotive, medical, industrial, semiconductor, environmental, ambient air and research applications, analysers from ECO PHYSICS AG are marked as the industry's finest.

"The graphical user interface enables a simple operation and shows the performance of each component. They are all equipped with their own PCB, corresponding with the mainframe. This status can be remotely accessed. Therefore, a detailed diagnosis can be made before any service intervention is conducted. The modular design and the individual, intelligent components make us a market leading brand," continued Dr. Grisca Peter Feuersänger.

This past year has provided its share of challenges for many companies, but ECO PHYSICS AG has also taken this time to find new opportunities. "Yes, public funded projects were delayed because the public sectors like research, universities, governmental and local authorities did not receive funding in 2020 or 2021. However, due to the portfolio updates we have received a growing number of customers in the industrial sector. In 2021, we welcomed our new CEO Mr. Dirk Wendt, and we are currently excited about the expansion of our R&D personnel for new developments," stated Dr. Grisca Peter Feuersänger.

For more information, please see below.  
T +41 55 220 22 22  
info@ecophysics.com  
www.ecophysics.com

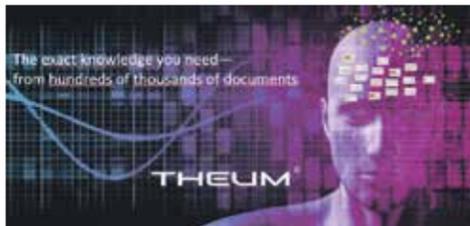


## Siemens deploys Theum for worldwide knowledge delivery

Siemens AG (Berlin and Munich) is a technology company focused on industry, infrastructure, transport, and healthcare. From more resource-efficient factories, resilient supply chains, and smarter buildings and grids, to cleaner and more comfortable transportation as well as advanced healthcare, the company creates technology with purpose adding real value for customers. By combining the real and the digital worlds, Siemens empowers its customers to transform their industries and markets, helping them to transform the everyday for billions of people. Siemens also owns a majority stake in the publicly listed company Siemens Healthineers, a globally leading medical technology provider shaping the future of healthcare. In addition, Siemens holds a minority stake in Siemens Energy, a global leader in the transmission and generation of electrical power.

In fiscal 2021, which ended on September 30th 2021, the Siemens Group generated revenue of €62.3 billion and net income of €6.7 billion. As of September 30th 2021, the company had around 303,000 employees worldwide.

In an era of radical change in which entire industries face the unprecedented challenge of transforming their processes to embrace a digital future, the ability to efficiently access and use corporate knowledge is critical to success. In a large enterprise like Siemens, it



is an especially complex effort. In this context, Siemens chose to deploy Theum worldwide as its platform for automated transformation, delivery, and task-oriented accessibility of knowledge.

The project started in June 2021, and by November, it was already possible for all areas of the business to go online. Participating process areas included Compliance, IT, Export Control, Financial Reporting, Project Management, Real Estate, Commercial Guidelines, Contract Law, Customs, and others. In parallel, Siemens began migrating its documented knowledge to SharePoint Online, which will serve as its preferred document management system going forward.

T +49 711 4510000  
info@theum.com  
http://www.theum.com

## Assentech reduced the GWP of a 12" breather vent from 161 tonnes to 185kg

Assentech has been developing techniques to measure and reduce emissions from tank farms for over a decade. The key is keeping volatile compounds inside the tanks but allowing them to breathe when required such as filling/emptying and fluctuations in temperature. At all other times a breather valve should remain closed with minimal leakage.

These valves have immense flow capacity so if not functioning or set correctly can leak hundreds of tons of invisible GWP emissions along with company profits into the atmosphere.

"We have a deep understanding of how breather vents work and how to optimise their performance. As they are modulating pressure relief devices they can begin to open from as low as 75%



of their set point. As many digesters run at 90% design pressure this overlap represents a large potential for mis-applied devices to leak excessively at

standard operating pressures," says Cox.

Two international standards ISO28300 and API2000 specify maximum leak rates for all production vents, ie. 0.014m<sup>3</sup>/h for vents up to 6". The shame is that only 2 out of the 20 worldwide manufacturers test to this standard.

Unfortunately, the majority of breather valves that are installed at facilities do not seal and will allow huge volumes of vapour to release into the atmosphere. We are the only company which has the technology, knowledge and service capability to keep you safe, compliant and profitable.

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## 100 years of business for Kingston Engineering



and Nuts for over 60 years. Adaptable for mechanical power transmission, their products conform to the standards of British, European and American requirements. All of Kingston's products meet ISO 9001-2015 accreditation and are examined thoroughly during the manufacturing process.

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

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

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

Kingston Engineering is one of the UK's leading manufacturers of bespoke power screws. Based in Hull, the company offers a vast selection of materials and specifications designed to suit their clients' requirements.

With a history dating back to 1919, Kingston Engineering has specialised in manufacturing right Hand/left Hand, single/multi-start, cut thread Power Transmission Screws

## New Interpon powder coatings white paper helps businesses explore innovations and solutions in corrosion protection

With the damaging effects of corrosion estimated to cost more than 1.5% of a country's Gross Domestic Product (GDP), businesses are increasingly aware of the critical need to protect the products, buildings, and other structures they create.

However, since different metal surfaces present different issues and require different approaches to corrosion protection, choosing the right system based on location and application is critical. It not only protects reputations, but it also protects lives.

Against this backdrop, AkzoNobel's Interpon powder coatings team has published a new white paper that explores the principal causes of corrosion and how they can be prevented. It begins by looking at the differences between ferrous and non-ferrous substrates and the different kinds of chemical and mechanical pre-treatments available.

It highlights the International Standard against which protective paint systems are measured (ISO 12944), and explains how to accurately benchmark competing products, to ensure like-for-like comparisons and judgments are made. It details the categorization of corrosion (based on C1 being very low risk to C5 very high) and specifically the



different systems available within Interpon's Redox range of powder coatings, including its latest innovation, Redox One Coat.

To download the new white paper **Innovations and solutions in Corrosion protection**, go to: <https://industrial.interpon.com/en/insights/white-paper-innovations-and-solutions-in-corrosion-protection>

AkzoNobel address: Rijksweg 31, 2171 AJ Sassenheim, Netherlands

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## Precision Micro offers record number of apprentice placements

Birmingham-based photochemical etching specialist Precision Micro has announced that it will hire the largest-ever number of school leavers to its Apprenticeship Scheme this autumn.



Located at Fort Dunlop with a 44,000 sq. ft. manufacturing plant, Precision Micro will take on 10 new apprentices this year, more than trebling the number of available apprenticeship placements from its typical annual intake of two or three spaces.

The four-year placements are open to students between 16 and 21, and will provide successful applicants with a holistic experience across all of its business departments from technical and maintenance to sales and marketing, as well as providing apprentices with the unique skills required to create the precision parts it manufactures.

Precision Micro supplies components to a wide range of industries, providing products for everything from life-saving surgery to Formula 1 racing, space exploration, luxury cars and more.

The business has a long history of recruiting local talent from a young age, with many success stories within the business, including Director and Co-owner Mick Taylor, who began as an apprentice with the business over 30 years ago.

To find out more about the Precision Micro apprenticeship scheme, please visit: <http://resources.precisionmicro.com/apprenticeships>

# Classifieds

## Water Technology

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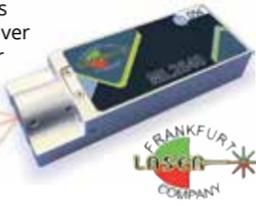


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# Enhancing the global supply chain for 30 years



In this issue of Industrial Process News, we are pleased to announce Cargo Overseas as our Digital Forwarding and Logistics Services Company of the Month.

Whether you are travelling by air, sea, or road, Cargo Overseas can deliver the right supply chain solutions for you. Since 1990, Cargo Overseas have been experts in freight forwarding, logistics and customs solutions. The company creates supply chain solutions by combining its extensive industry experience along with bespoke digital IT solutions, which enables them to offer services for SME's through to multinational PLCs.

Cargo Overseas was the original brainchild of Patrick McCluskey. Upon his retirement in 2004, the current management team took over. Headquartered in Manchester, the company also has offices in London Heathrow, Felixstowe and Hull. Encompassing a large UK presence, through the years Cargo Overseas has continued to evolve, expand and innovate, so much so, it is now world renowned



as global logistics experts in using their expertise and technology to provide its clients with simple, intuitive, real time information that drives efficiencies and enables better decision making.

"We put technology at the forefront of what we do – this enables our staff to be more productive allowing them to focus on the customer while at the same our digital solutions give the customer a better user experience," stated Damian McCluskey, Director.

The company delivers a number of market leading services such as

aCe, which is Cargo Overseas' Brexit customs clearance solution. aCe stands for Automated Customs Entry. It is an IT solution for UK importers and exporters to efficiently process their customs declarations with HMRC. In December 2020, the UK's transition period ended and the UK left the EU. Therefore, any UK company that imports from, or exports to, the EU is required to complete a UK customs declaration for every shipment. With an estimated 820,000 customs declarations made every day, aCe is the perfect solution for your business.

aCe's interactive dashboard features include:

- Instant submission of your customs declarations through the online portal
- Simple and timely data capture
- Live status of customs declarations updated from HMRC
- Notifications of actions required for clearances
- Storage of customs documentation for ease of compliance
- Searchable custom's commodity codes database.

The data capture methods are designed with four time saving options that are instant and simple to use. These include a smart form entry data, templates to retain data for regular suppliers/customers, OCR data capture from your documentation, and the ability to send API directly from your ERP into the aCe dashboard.

With over 30 years' experience performing the same customs declarations processed for hundreds of clients, Cargo Overseas is the best in the industry to help solve your solution in a matter of minutes using a simple and transparent pricing structure. There is no need to worry about any potential impact to your business, as Cargo Overseas provide simple data capture, automated processing and real-time information that always keeps you one-step ahead. Where the company differentiates to others in the market is that it has the capabilities to combine extensive freight industry knowledge with the latest digital technologies to deliver an uncomplicated Brexit solution. Keeping up to date with all the latest news and changes within our global economy, Cargo Overseas are always first to respond to the ever-moving landscape since leaving the EU and continues to innovate to find better ways to address the challenges its clients face.

Another notable service available from Cargo Overseas is Orbi, a real-time global tracking portal that enables you to manage your entire logistics world from your own laptop. Users can also see details of all their shipments and their location on the interactive dashboard, as well as receive accurate real time data keeping you up to date with the latest happenings rather than finding out what has already happened. "Our tracking portal uses real time data including vessel GPS and live flight status updates enabling users to keep track of exactly where their shipments are at every point of their journey," added Damian.



three years for the company, seeing it move away from traditional freight forwarding and embracing digitisation.

In light of this shift, the immediate plans for the company are to continue focussing on its digital products, as it seems only natural to do so since the industry as a whole has changed dramatically over the last five years toward digitisation. Damian continued to explain the company's future-plans, "While customer service will always remain the core of everything we do, we understand that our customers still need more. Our immediate plans are to continue to develop our existing products in-line with several industry changes such as CDS and ENS. We are also further developing our platform to include much more functionality in terms of data analysis giving the user a complete freight, customs and data analysis platform."

In closing, we asked Damian how the company dealt with the impact of COVID-19, he answered. "COVID-19 has had a seismic impact on the logistics sector and that is still being felt now. The collapse of the global travel industry has led to huge problems in the airfreight market. All this combined with a global boom for consumer goods and staff isolating or working remotely has led to a surge in rates and massive service issues. Therefore, we have shifted our focus to our technology, looking at how it can make us work smarter. The benefits of having access via API to suppliers' capacity has enabled us to book space instantly and seamlessly with both airlines and shipping lines."

Over the next 12 months, you can visit Cargo Overseas at the following trade shows:

- Multimodal in Birmingham – 14-16 June 2022
- Air Cargo forum Miami – 8-10 November 2022
- Air Cargo Africa Johannesburg – 21-23 February 2023
- Transport Logistics Munich – May 9-12 2023.

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