

INDUSTRIAL

# SOLUTIONS UK

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see 15-18



Service Sealing Solutions Ltd

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### Hello & Welcome to Issue 673 of Industrial Solutions UK!

The team at Industrial Solutions UK has been working extremely hard to bring you an issue that is full of innovative and exhilarating companies and we are very excited to share their success and achievements with you.

We have searched the length and breadth of the UK to bring you some of the most ground-breaking innovations and this month, we are overjoyed to be highlighting the activities of Service Sealing Solutions and Biopharma Group.

Firstly, we would like to focus on the accomplishments Service Sealing Solutions who this month features on our front cover!

Secondly, we are featuring Biophama Group with the 'Production Freeze Dryers' profile following their impressive performance over the years. For more information, turn to page 20.

I hope you enjoy reading this issue of Industrial Solutions as much as we have enjoyed bringing it to you. Happy reading and we hope to see you for the next edition!

**Ian Hayward, Editor**  
INDUSTRIAL SOLUTIONS UK

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Industrial Solutions UK is based on the belief that our customers needs are of the highest priority and the utmost importance, with this in mind our team of highly dedicated staff work around the clock to make sure that those needs are always met.

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# Award-winning resin flooring from 100% recycled waste plastic

In this issue of Industrial Solutions, we have selected Abacus Flooring Solutions Ltd as our Company of Choice.



Our fragile planet is at catastrophic risk from waste plastic, with numerous quantities ruining our bountiful oceans, endangering marine life, human health and ecosystems. Harmful chemicals such as bisphenol A (BPA) and phthalates in plastic can cause havoc in soil chemistry and landfill groundwater.

Abacus Flooring Solutions is a multi-award-winning specialist-flooring contractor from Coalville, Leicestershire that has come up with a landmark innovation. By using waste plastic (that would otherwise go to landfill) in industrial resin flooring, the East Midlands based company has revolutionised the flooring industry.

The groundbreaking patented innovation is named 'Abaplas' and is the brainchild of Managing Director, Nick Megson. It is the first exclusive design in the world of its kind, providing a wholly sustainable, eco-friendly flooring method.

Established in 2020, the company designs, manufactures and installs resin flooring for a wide



"Resin flooring, along with many other industrial products, has traditionally been manufactured using silica sand, which is a dangerous and potentially carcinogenic substance when inhaled."

"Abaplas instead contains non-harmful recycled waste plastic, which is ground down to a white powder. The process will vastly reduce the volume of waste plastic ending up in landfill or the world's oceans."

"The world's first resin flooring using 100% recycled plastic was installed by Abacus in the enormous VIP Visitor Centre auditorium at JCB's global headquarters in Staffordshire, UK."

range of industries from industrial, commercial to healthcare. With a dedicated aftercare service, customers benefit from an annual follow-up site visit for cleaning advice and slip testing. Furthermore, the sister company: Abaplas Recycling Limited treats all the plastic recycling for Abacus resin flooring products and initiates the sales of treated plastic for use by other product manufacturers.

We caught up with Nick Megson, Managing Director to find out more about this award-winning company, "Our products are intrinsically more environmentally friendly than any other flooring product on the market: there is currently no competitor offering a resin flooring that entirely replaces harmful silica sand with 100% recycled waste plastic."

The future looks bright for this flagship company as it sets a new benchmark for sustainable usage of plastic waste in flooring for years to come, "It is expected that Abaplas Recycling Limited will grow exponentially over the next few years as more clients specify Abacus's 100% recycled waste plastic flooring. Rapid growth is also expected as Nick's unique process becomes adapted for use in a much broader range of flooring, construction and industrial products," concludes Nick.

**For more information on Abaplas, please see the website below:**  
**T 01530 432790**  
[nick@abacusflooringsolutions.co.uk](mailto:nick@abacusflooringsolutions.co.uk)  
[www.abacusflooringsolutions.co.uk](http://www.abacusflooringsolutions.co.uk)



Tel: 01530 432790  
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# Trace heated 'v' tepid water

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



ANSI 2014 states that the water temperature delivered by safety equipment should be 'tepid.' Tepid is defined to be between 60°F (16°C) and 100°F (38°C). Many COSHH sheets state the requirement for a casualty to remain under a shower for at least 15 minutes to be washed off satisfactorily. The necessity to therefore provide 15 minutes or more of tepid water is absolutely vital as getting doused in cold water can not only cause thermal shock it will actually close the pores thus trapping the contaminants in the skin.

A tank shower is possibly the most effective solution to ensure tepid water is guaranteed as by the very nature of being able to store water means operationally it is not affected by interrupted or low water pressure. Regardless of ambient or incoming

water temperatures the shower will deliver a guaranteed 15 minutes of tepid water at 76 litres per minute as recommended by ANSI because the stored water can be effectively managed.

More sophisticated methods are now available to enable the tank to be heated but to include a visual water temperature display, water temperature alarm and power failure alarm.

Aqua Safety Showers International Ltd is offering no obligation help and advice for companies both large and small on how to operate within the latest ANSI Z358.1-2014 recommendations.

**Please visit: [www.aqua-safety.com](http://www.aqua-safety.com) for contact details and more information.**

# AQUA Safety Showers, experts in our field

When it comes to the safety of workers out in the field, we are the people to contact when it comes to emergency safety showers and eye wash stations. It isn't just about the end product. We will recommend and advise you on the best safety shower solution to suit your requirement. As there is no one-fits-all approach we have the flexibility to adapt or modify our units in our manufacturing facility in Great Britain.



Our range of emergency products and equipment offer protection against serious injury and are all built to exceed ANSI/EN safety standards.

While we hope there is never the need for your safety showers to be used, having one is imperative on site should be working around harmful substances.

Our goal is to create essential pieces of equipment that become the standard in every laboratory and facility that uses harmful substances.

### Are you properly prepared in case of an emergency?

Aqua Safety Showers can keep your workers safe with our wide range of products and units available. For a bespoke quotation or free site survey, please get in touch with our dedicated sales team today.

Our highflyer is our TS1500 unit (<https://aqua-safety.com/product/1500-tank-shower>). This unit guarantees over 15 minutes of tepid water without the need for a mains water supply. It can be situated indoors or outdoors and in either hot or cold climates. Temperatures are maintained around 18-20°C when heaters (and chillers) are fitted.

**T +44 (0)1942 318096**  
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# Discover Colwyn Bay and St. Asaph, perfect prime locations for office space

Come and see the picturesque region of North Wales, where serene landscapes meet vibrant communities. Discover the unique attributes of Colwyn Bay and St. Asaph as prime locations for office space.

## Colwyn Bay: A blend of Coastal Beauty and Urban convenience

Nestled along the stunning North Wales coastline, Colwyn Bay offers a perfect harmony between natural beauty and modern amenities. The town's exquisite sea views and relaxing promenade create an inviting atmosphere that fosters productivity and inspiration. Colwyn Bay boasts a range of office spaces, from contemporary business centres to historic buildings that have been transformed into vibrant workspaces. With easy access to transport links and a thriving local community, Colwyn Bay presents an ideal environment for businesses looking to combine a tranquil backdrop with urban conveniences.

## St. Asaph: Where history meets innovation

As you venture further inland, you'll find the charming city of St. Asaph, known for its rich historical heritage and burgeoning tech scene. St. Asaph Cathedral, a stunning



medieval masterpiece, stands as a testament to the city's historical significance. Amidst this historical backdrop, St. Asaph also offers modern office spaces that cater to the needs of contemporary businesses. The city's growing reputation as a hub for innovation and technology makes it an appealing destination for start-ups and established companies alike. With its unique blend of history and modernity, St. Asaph provides a truly distinctive setting for businesses seeking an inspiring and dynamic office space.

Whether you're drawn to the coastal tranquillity of Colwyn Bay or the historical charm of St.

Asaph, North Wales offers a diverse range of office spaces to suit various preferences and business needs. These towns provide an exceptional opportunity to work in an environment that seamlessly marries the beauty of nature with the conveniences of urban life.

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Whether you are a start-up company, a growing enterprise or a national organisation that needs a local presence, Hanover Business Centres Ltd have all the office facilities you need.

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Please contact **Jean Barlow, Manager,**  
**T 07789 348817**  
[jean@hanoverbc.co.uk](mailto:jean@hanoverbc.co.uk)

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Hanover House is situated in the picturesque City of St. Asaph and positioned close to the A55 North Wales expressway.

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Restaurants, public houses, shops and hotels are all within a short walking distance of the property.

**MAKE AN  
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To enquire about the current office availability at Hanover House, please contact Jean Barlow directly on **07789 348817** or email [jean@hanoverbc.co.uk](mailto:jean@hanoverbc.co.uk)

Hanover Business Centres Ltd provides us with an ideal base and a perfect location to service our North Wales clients from. We've been tenants for several years and have benefitted from moving between office space within the building as our business has grown.



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# Oliver Valves secure £890k order for Modular Wellsites

Oliver Valves secured a £890,000 order to supply Double Block and Bleed valves in Alloy 625 material with a reduced overall length of 240mm and are to be fitted to Modular Wellsite Packages.

Wellsite packages are integrated skid-based units that house all the equipment between the Christmas tree and the production header. The skids are expected to be installed near the respective wellheads to control the flow and pressure of oil or gas. They include; wellhead shutdown panels to control the wellhead valves, power distribution system with single phase and 3-phase power distributed to modules across the well site. A huge chemical injection system for flowline protection against corrosion, sampling pots to facilitate fluid sampling, and flow lines fitted with instrumentation valves that measure temperature and pressures.



Oliver Valves are to manufacture 240 custom-made valves that are to be shipped to site over the next few weeks.

To find out how Oliver Valves can custom-manufacture your valves, contact us by telephone: +44 (0)1565 632636, email: sales@valves.co.uk or website: www.valves.co.uk

# Oliver Twinsafe Valves Supplied for MEG Injection Pump Systems

Oliver Twinsafe is to supply Double Block and Bleed pipeline valves for use on Monoethylene glycol (MEG) injection pump systems. MEG is a widely used hydrate inhibitor designed to reduce the risk of hydrate formation in pipelines that could cause blockages.

The order includes a batch of 2 1/16" API 6A 5,000psi Double Block and Bleed valves in A182 F55 Super Duplex material that have been dynamically tested to meet the requirements of API 6A PSL level 3. In addition, the valve designs were pre-qualified to API 6A PR2 Appendix F, which involves multiple cycle testing at low, ambient and high temperature with zero leakage allowed across the valve seats throughout these cycles.

A number of Oliver instrumentation valves have also been ordered,



taking the total number of valves supplied for this offshore project overall to over 300 with more valves in the pipeline.

For information on how Oliver Twinsafe can provide pipeline valve solutions for your project, telephone: +44 (0)1565 632636 or visit our website at: www.valves.co.uk

# CML readies itself for a surge of new market opportunities

CML Innovative Technologies (CML) is the leading manufacturer of LED signal lamps for all industrial applications and has been working with light since 1931. As a market leader in its field, CML was one of the first companies to introduce LED lamps and now has one of the broadest ranges of miniature lighting products in the world. "In 2004, the company became CML and continued to grow, establishing its international pedigree with two factories in Guangzhou, China, and Sibiu, Romania. While CML remains in Bury St Edmunds, the group was acquired by Spain's Grupo Antolin, which employs 28,000 people globally," stated Roger Neal, Commercial Manager.

From lamps for signalisation, panel mount indicators, LEDs, LED displays, medical lamps, and aviation lamps, CML provide light to an abundance of markets



and pride itself on the ability to be as flexible and adaptable as possible in the manufacture of their own branded products to meet customer specifications and demand.

"CML in the UK focuses on specialist applications mainly manufacturing lighting solutions for automotive, aviation and general industries. We manufacture a standard range of products and customer-specific solutions from customer concept to production, including in-house design. Our portfolio runs to thousands of miniature lighting options in size, function, colour, finishes and voltages," said Roger.

CML is continually developing its own product range and has recently witnessed positive movements from customers seeking more product value. Some competitors fall short as they only provide a face value market product however, CML offers further manufacturing capabilities such as the add-on of cables and connectors to a product, which carries weighted value. The ability to meet customer specific requirements has attracted much attention in the industry as the manufacturing processes available from CML dramatically reduce production time through its made to order service.

"Nothing is impossible for us, we produce to customer demand working with customers. We have done work for individual airlines and collaborated with their design division to manufacture LED replacements for incandescent lamps. There is a cockpit lamp, which we have produced for years, and there can be up to



1,200 different pieces per aircraft of that particular type. Our possibilities are endless," remarked Roger.

You will find CML products all over the world, from medical applications to gaming industries, by having full control of the entire value chain enables CML to be flexible with our clients' requirements. Since COVID-19, 50% of the business has come from industrial sectors. "Automotive sales have improved in the last year and the industrial side has witnessed significant growth. The pandemic has only made us stronger as a company, and as a result, our flexibility has generated an upturn in demand and helped create new business opportunities," said Roger.

**For more information, please see below:**  
**T 01284 714700**  
**uksales@cml-it.com**  
**www.cml-it.com/en**



## High Quality Panel Mount Indicators

CML IT continues to be the number one supplier of panel mount indicators, LED lamp replacements and LED tower lamp solutions.

PMI highlights include:

- Plastic and metal bezels with a wide range of options in stock.
- IP40 and IP67 ratings.
- Development of custom solutions.
- UK manufacturing facilities.



**Contact our Customer Services department to discuss your requirements today.**



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# Thermal loop solutions: A path to improved performance, sustainability and compliance in heat treatment

Heat treatment processes are a crucial component of many manufacturing processes, and thermal loop solutions have become increasingly popular for achieving improved temperature control and consistent outcomes. But many OEMs are missing opportunities where thermal loop solutions offer more than just greater control. In this article, Peter Sherwin, global business development manager heat treat and Thomas Ruecker, senior business development manager at **industrial heating technology supplier**, Watlow, explore the possibilities of thermal loop solutions.

A thermal loop solution is a closed loop system with several essential components, including an electrical power supply, power controller, heating element, temperature sensor and process controller. The electrical power supply provides the energy needed for heating, the power controller regulates the power output to the heating element, the heating element heats the material, and the temperature sensor measures the temperature. Finally, the process controller adjusts the power output to maintain the desired temperature for the specified duration, providing better temperature control and consistent outcomes.

## Performance benefits

Heat treatment thermal loop solutions offer several advantages over traditional heat treatment methods, including improved temperature control and increased efficiency. The thermal loop system provides precise temperature control, enabling faster heating and cooling and optimised soak times.

The effectiveness of heat treatment thermal loop solutions can be measured using metrics such as overall equipment effectiveness (OEE). OEE combines metrics for availability, performance, and quality to provide a comprehensive view of the efficiency of a manufacturing process. By tracking OEE and contextual data, organisations can evaluate the effectiveness of their heat treatment thermal loop solutions and make informed decisions about optimising their operations.

## Supporting sustainability

Heat treatment thermal loop solutions provide several sustainability benefits, including reduced energy consumption and waste. The power controller regulates the power output to minimise energy waste, and the possible integration with renewable energy sources provides a complete power solution that spans from element design to recycling. The thermal loop solutions, in combination with insulation design and materials, provide energy-efficient solutions that contribute to sustainability and reduce the environmental impact of heat treatment processes.

When discussing these systems in the context of greenhouse gas emissions and the environmental impact, it's essential to consider Scopes 1 (direct emissions), 2 (indirect emissions from energy), and 3 (other indirect emissions), as well as the less common Scope 4 (avoided emissions).

At the component level, energy savings can be realised using current technology. Advanced Selective



Catalytic Reduction (SCRs) provide predictive load management functions and hybrid firing algorithms contribute to sustainability by optimising the energy usage of heat treatment processes. These SCRs offer real-time monitoring and control of energy consumption, while predictive load management systems use specific algorithms to manage peak power loads and adjust to optimise for local conditions such as load shedding or load sharing.

## Regulatory compliance

NADCAP, the National Aerospace and Defense Contractors Accreditation Program, is an industry-driven program that provides accreditation for special processes in the aerospace and defense industries. Heat treatment is considered a 'special process' under NADCAP because it has specific characteristics crucial to aerospace and defense components. These characteristics include process sensitivity, limited traceability, critical performance requirements and potential risk.

<https://www.watlow.com>

## Deephole Drilling

# UNISIG's makes significant investment in plant technology and equipment

*UNISIG, a global manufacturer of deep hole drilling machines, has invested \$1.5million in state-of-the-art technology and equipment for the company's newly constructed 500 sq m fabrication department*

The expansion supports the company's strategy to develop in-house, design-to-finish production of high-quality sheet metal components used in UNISIG's product line. By producing many of its parts in-house, the company can preserve and maintain the quality and quantity of its components while optimizing the mix of parts that are made internally versus those that are outsourced for production.



The investment includes the installation of fiber laser cutting equipment, and a 242-ton capacity press brake with a 7-axis programmable back gage, all of which utilizes 3D programming and simulation software. The software and training for the company's workforce were part of the investment, along with the hiring of additional personnel.

"The company's new fabrication capabilities will also serve as an inspiration and catalyst for ongoing development and advances in machine design that will have an immediate impact on the value UNISIG brings to its customers now and in the future," said UNISIG CEO Anthony Fettig.

"The most exciting part of this investment from my view is the opportunity to

fundamentally change how we think about the design of fabricated components," Fettig said. "Our engineers will be inspired by the manufacturing innovations generated by the precision fabrication team and what we can do with these state-of-the-art production capabilities," Fettig said.

UNISIG's fabrication enhancements also include MIG and TIG welding with advanced digital process control and weld boom with power assist. A modular fixture system provides precision component setup from 3D models, while a vertical pallet system stores raw sheet material. To assist department personnel, vacuum sheet lifting equipment and updated bridge crane controls make for easy material handling.

**Further information on all machines 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).**

# SubCtech: Ocean Power & Monitoring

In the ever-evolving realm of underwater technology, German firm SubCtech stands out with its innovative approach to ocean monitoring and subsea power solutions. Guided by the expertise of founder and CEO Stefan Marx, the company has carved out a significant niche in this highly specialised industry.

Based in Kiel, Germany, SubCtech has two primary business units – Ocean Monitoring and Ocean Power. The company began by manufacturing products to monitor seawater quality, and, over time, its focus evolved to meet the increasing demand for battery power underwater.

From its relatively small beginnings, crafting small underwater batteries, the firm now boasts a staggering 2MWh battery storage system set to be in operational use from beginning of 2024.

SubCtech's Ocean Power unit manufactures subsea

batteries that can be deployed aboard underwater vehicles – particularly unmanned vehicles – or as backups for Oil & Gas industry applications offshore. To ensure its customers are comprehensively serviced, the Ocean Power unit is subdivided into three sectors: offshore energy, underwater vehicles, and standard subsea power products.

According to founder and CEO Stefan Marx, SubCtech's Ocean Power unit offers both standard batteries and bespoke solutions: "We are able to offer solutions that fit into the customer's available space and within its weight limitations – that's where our roots lie, and that's the service that has delivered our growth thus far."

### Record-breaking storage

The company's engineering prowess was on full display in late 2023, with SubCtech's unveiling of the latest, greatest and biggest battery that it has ever produced: a jaw-dropping 2MWh battery storage system.

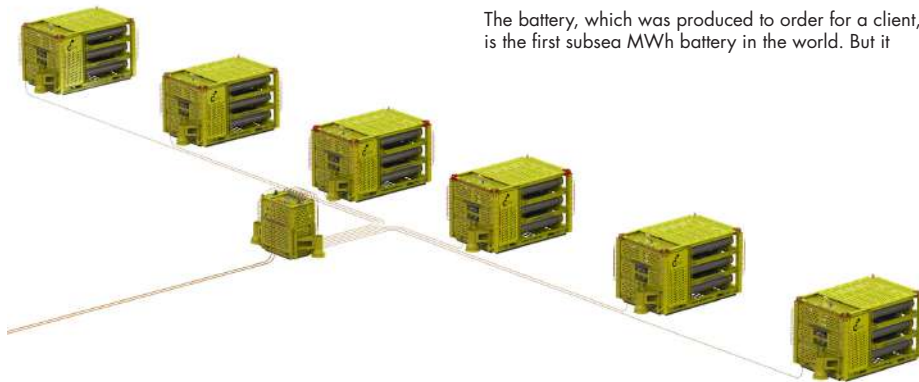
The battery, which was produced to order for a client, is the first subsea MWh battery in the world. But it



is also only one amongst many other batteries sold by SubCtech each year. The company's off-the-shelf battery solutions – dubbed 'Big Jim' and 'Long John' – are perennial best-sellers. Both battery units have standard physical dimensions and similar weights, but the innards can be customised according to the customer's specific requirements, including for both the capacity and voltage, both within set limitations.

For vehicle-based solutions, SubCtech offers three different standard battery housing diameters, namely 260mm, 310mm and 416mm internal diameter sizes. Bespoke sizes, energy, power and voltage ranges are meanwhile available on request.

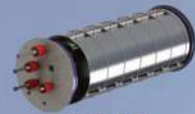
**Contact**  
**T +49 (0)431 220 39 880**  
**info@subctech.com**  
**https://subctech.com**



## Li-ion Ocean Power



XXL AUV  
Li-Ion Batteries



Vehicle  
Batteries



Standard Li-ion  
Batteries



6 x 1 MWh  
Energy Storage System



Charging Units

### Li-ion PowerPack™ - Underwater Power Solutions

Extremely reliable, efficient and safe Li-ion batteries and Subsea-UPS with either DC or scalable AC output. Manufactured for harsh offshore and subsea conditions for the Offshore energy, science and vehicles like AUV or eROV. We offer API-17F, MIL-STD, SIL and UN T38.3 certifications including air-cargo options! Our new production building is designed for subsea series production according to your requirements..



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# ECO PHYSICS AG develops new three-channel chemiluminescence analyser (NO/NO<sub>2</sub>/NH<sub>3</sub>)

ECO PHYSICS AG offers innovative analytical solutions for measurement tasks in the fields of environment, health and process control. Using its vital expertise and technology to contribute towards environmental preservation, human health, and industrial innovation, ECO PHYSICS' interdisciplinary research and development team work tirelessly to deliver the best customer orientated and tailor-made products and services for the industry.

Founded in 1990 through a management buy-out, ECO PHYSICS stands strong today as an independent Swiss shareholder's company with an active board of members who are committed to the future growth and success of the company. We spoke to Dr. Grischa Peter Feuersänger, Head of Sales & Marketing who explained how the past 12 months have fared.

"We have received a positive recovery post pandemic. Many public projects were reopened which generated a lot of opportunities for new references. The war in East Europe is a new tough challenge to overcome, especially for companies that rely almost completely on importing parts and exporting their finished products. But the main challenge for all of us has particularly been the manufacturing costs, shipping routes and exchange rates. Since 2022, we have used this time to expand our product portfolio and modernise our production line. New staff has been hired for production and R&D, and we have rearranged the



supply chain due to the rise in production costs. We have adapted our yearly forecast to cater to this, we know it will be hard, but optimisation is our current goal."

Knowing there is no quick fix to economic changes, ECO PHYSICS is determined to continue innovating and has developed a new three-channel analyser based on chemiluminescence. As an upgrade from the The nCLD AL2, The nCLDAL3/8555 CY analyser is the next generation in high precision nitrogen oxide measurement. Unique in speed and reliability, the nCLDAL3/8555 CY is modular designed and capable of simultaneously NO, NO<sub>2</sub>, NO<sub>x</sub>, NH<sub>3</sub> and NO<sub>x</sub>-Amines. The new and intuitive graphical user interface also individually displays and connects to other instruments' data.

Overall stability and reliability are lifted to a new level. The optional electro-mechanical

bypass system balances out even the fastest of pressure variations occurring in the sample flow. Furthermore, the analyser is adaptable to numerous non-standardised applications and the calibration of the unit runs quickly and automatically with all necessary data available anywhere at any time. Its user friendly, compact, modular, and intelligent hosting its own CPU whilst enabling interaction with other CPUs by BUS-communication.

Additionally, ECO PHYSICS has also been developing upgrade kits for all its existing products to help counteract some of the problematic complications the supply chain has caused. "We have used this chance for some substantial upgrades in hardware, software and gas flow controls," added Dr. Grischa Peter Feuersänger.

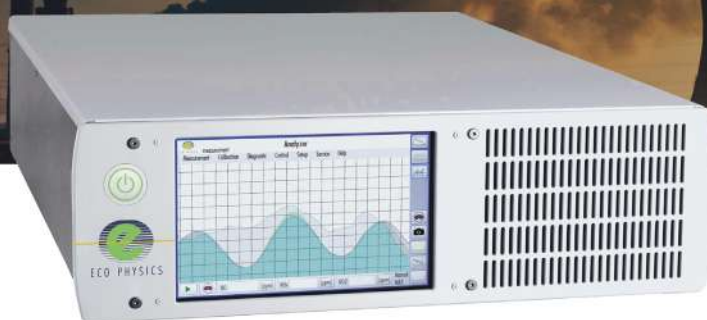
Going forward, ECO PHYSICS is excited to continue working on optimising production workflow whilst simultaneously expanding its current portfolio and developing new technologies.

In closing, we asked Dr. Grischa Peter Feuersänger how the company felt receiving our award. He responded, "We are extremely honoured to be nominated, thank you."

T +41 55 220 22 22  
[info@ecophysics.com](mailto:info@ecophysics.com)  
<https://www.ecophysics.com>

## ECO PHYSICS nCLD "Facelift" boxed solutions

AL, AL<sup>2</sup>, EL S, EL, EL<sup>2</sup>



Measurement of:  
 NO · NO<sub>2</sub> · NO<sub>x</sub>

- Compact analyzer with external or integrated pump
- "Toggle mode" NO<sub>2</sub>-feature for One-Channel instruments
- Intuitive graphical user interface
- Internal data logger and status recorder
- Remote operation/control, Power DOWN/UP
- USB, HDMI, LAN/WLAN, Bluetooth, RS-232, Analog I/O

The one- and two-channel chemiluminescence based NO<sub>x</sub> analyzers of the nCLD "Facelift" box-solution analyzers detect NO, NO<sub>2</sub> and NO<sub>x</sub> at concentrations ranging from 5ppm to 5,000ppm with minimal detection limits averaging from 0.4ppb to 0.5ppm. They hereby focus on two main application areas, Ambient Air (AL, <50ppm) and Emission/Process (EL, <500ppm; EL S <5,000ppm) monitoring. The one-channel nCLD AL, EL and EL S feature an external pump, while the two-channel nCLD AL<sup>2</sup> and EL<sup>2</sup> include an internal pump. The nCLD "Facelift" boxed solutions consist of five, fixed and pre-configured analyzers. The nCLD AL (Ambient Level) and EL S/EL include a standard NO/NO<sub>x</sub> measurement, with an optional NO<sub>2</sub> add-on, while AL<sup>2</sup> and EL<sup>2</sup> include, due to the two-channel set-up, a standard NO<sub>2</sub> detection. The slightly modified front panel has been equipped with an additional Power-button and a new internal PC. Additionally, are all nCLD-models capable of a remote power down/up including a failsafe feature.



ECO PHYSICS AG · POB · CH-8635 DUERNTEN · TEL. +41 55 220 22 22 · FAX +41 55 220 22 55 · E-MAIL [INFO@ECOPHYSICS.COM](mailto:INFO@ECOPHYSICS.COM) · [WWW.ECOPHYSICS.COM](http://WWW.ECOPHYSICS.COM)

# Sealing heat pump services with precision German engineering

## Meet DOYMAfix<sup>®</sup>

**S**ervice Sealing Solutions Ltd supply a number of different sealing solutions across the UK to both the public and private sectors, from transport infrastructure projects, country estates, civil engineering projects, through to energy for waste. As the sole UK distributor for the sealing industry's renowned top manufacturers: DOYMA and HKD, Service Sealing Solutions Ltd specialises in high-quality service duct sealing systems for utility services and watertight seals.

From its Shropshire base, Service Sealing Solutions Ltd has built up a loyal customer base across the UK but the company is more than a distributor: it goes to great lengths to work with specifiers and contractors to make sure the correct products are used. Correct sealing ensures that the building's utilities in question remain accessible, allowing any planned or emergency maintenance work to be carried out effortlessly. Premium

products from Service Sealing Solutions Ltd are industry gold-standard and seal against water, air and radon gas ingress.

Against this backdrop, Service Sealing Solutions, have seen a 25% increase in sales enquiries and actual sales growth. We have retained our loyal customer base and gained new customers. We are largely known for working underground, sealing against water ingress. Looking ahead we are aiming to promote air tight and insulating products for the growing heat pump market.

Service Sealing Solutions Ltd has the exclusive rights to distribute German DOYMA products across the width and breadth of the UK. DOYMA stands head and shoulders above its competitors, with its superior German engineering. DOYMA products have a fantastic reputation: they come with a 25-year warranty.

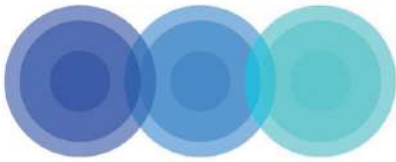
Beyond the larger commercial projects, we have diversified and worked with some new, exciting projects such as the heritage sector, namely large country estates, typically being converted for private usage or for commercial, recreational purposes. These have been located all over the UK and it has been an exciting new venture for us.

**For more information, please see below:**  
**T 01952 510050**  
[www.servicesealingsolutions.co.uk](http://www.servicesealingsolutions.co.uk)



Service Sealing Solutions Ltd

# The UK's number one sealing solutions provider



Service Sealing Solutions Ltd

Service Sealing Solutions Ltd provide a number of different sealing solutions across the UK to both the public and private sectors. As the sole UK distributor for the sealing industry's top manufacturers; DOYMA and HKD, Service Sealing Solutions Ltd specialises in high-quality service duct sealing systems for utility services and watertight seals.

Service Sealing Solutions Ltd has the exclusive rights to distribute DOYMA products in the UK. DOYMA stands on the front line when it comes to the development of innovative, practical solutions for sealing and fire systems. Providing the very best in German engineering, DOYMA is used to seal penetration points in walls and floors to permanently prevent any infiltration of gases and water into the building. All DOYMA products are designed to solve all watertight duct sealing requirements, prevent against structural damage and incorporate rubber mouldings that ensure all gas and watertight features.

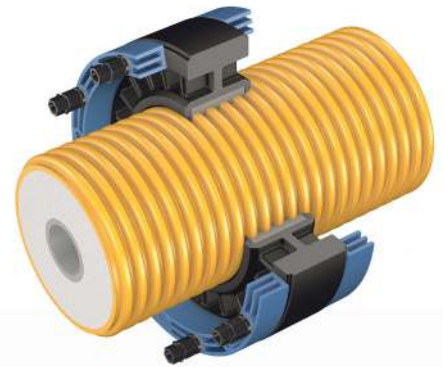
Demanding building types, such as power plants, large industrial plants, reservoirs or airports, often require highly specialised custom-made constructions. They place high demands on the fact that building penetrations such as cables and pipe work need to be permanently sealed. In the case of extraordinary pipe dimensions or special



Husband and wife team, Jim & Tina have recently visited DOYMA in Germany to find out about the innovative products that DOYMA have been developing

thermal, chemical or physical requirements, sealing systems in the form of a special construction are the required solution.

Service Sealing Solutions Ltd has a large range of DOYMA products that come with a 25-year warranty. DOYMA product brochures are available on the website and include products that have been supplied to some of the UK's largest projects such as HS2 and Kings Cross in London. DOYMA has recently released its



new generation Curaflex Nova® gaskets, which are the perfect solution for any professional tradesman instantly looking to solve sealing problems and can be adapted to multiple applications.

Service Sealing Solutions also supplies HKD products, which are now owned by DOYMA. HKD manufacture a large range of pipe sealing systems and service conduits that are guaranteed to withstand up to four bars pressure. HKD systems have a sealing solution for service conduits cast into concrete without the sleeves. They are supplied and ready to use, requiring no site preparation work prior to installation. With options such as KE Socketless service conduits, KG Wall Ducts and Floor Ducts, together with KG Twin Sockets for installation in pump sumps, HKD products are ideal for situations where suitability for thin-walled concrete structures is vital.

For more information, please see below:  
T 01952 510050  
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# BUILDING UPDATE

ISSUE: 673 March/April | [www.solutionspublishing.co.uk](http://www.solutionspublishing.co.uk)



**GOLD & WASSALL**  
QUALITY HINGES FOR OVER 200 YEARS

**MAKING HINGES SINCE 1790**  
**100% UK MANUFACTURED**

Gold & Wassall are the UK's No.1 manufacturer of hinges. We provide a fully comprehensive manufacturing service, which enables us to offer any hinge, for any application.

All our hinges are manufactured at our premises in Tamworth, UK.

We have a huge stock range, all of which are available for immediate dispatch.

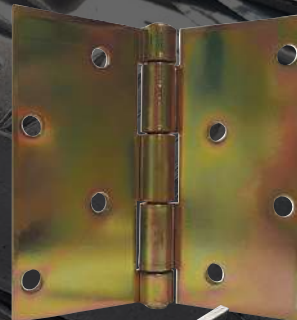
Continuous Hinges

Butt/Backflap Hinges

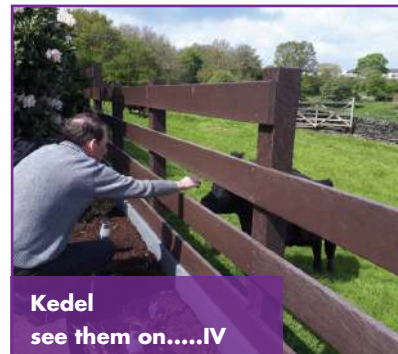
Lift-Off Hinges

Heavy Duty Hinges

Special Purpose Hinges



Modcon Cabins  
see them on.....II



Kedel  
see them on.....IV



LS Products BV (Ecoclipper)  
see them on.....VIII



**VIGILEX®**  
SAFETY PROTECTION **STIF**  
**EXPLOSION PROTECTION**  
MacClancy & Sons  
see them on.....XV



Checkedsafe  
see them on.....XVIII

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Email: [sales@goldwassallhinges.co.uk](mailto:sales@goldwassallhinges.co.uk)  
Telephone: **01827 63391**

# ModCon Cabin Trader Ltd

**M**odCon Cabin Trader was formed in 2017 by Alan Willetts of whom has 25 years experience of working for some major manufacturers in the Modular & Portable Building Industry.

ModCon Cabins as it is also known manufactures and supplies Steel Anti Vandal Portable Cabins, Containers, Modular Buildings and all site ancillary items associated with the Portable Building Industry. Please visit: [www.modconcabins.co.uk](http://www.modconcabins.co.uk)

Items such as Portable Offices, Canteens, Toilet units, Drying units, Storage Containers, Chemstores, Smoking Shelters, Effluent Tanks,



Being that all items produced are mostly built on a jig and to customers own specification we are open to undertaking bespoke enquiries too so please feel free to engage with us here at ModCon Cabins even if you have a rather random enquiry for certain products.

Why not also take a look at ModCon Cabin Traders other side of the business which is an Auction/Resale website that allows all and sundry to utilise the site to sell new & used Portable Building products which operates very similar to a well-known auction/resale site we are all familiar with, however only for products relating to our industry.

**T 0333 404 8822**  
[info@modconcabins.co.uk](mailto:info@modconcabins.co.uk)  
[www.modconcabins.co.uk](http://www.modconcabins.co.uk)



Staircases are regular and repeat produced items that we manufacture for our clients.

Based in Gloucestershire in the South West we are logistically nicely placed around all the major motorway networks for ease of transportation.

Our workforce are all very skilled and experienced fabricators of whom have many years experience working within our industry and so know the expectancy of our customers requirements so you can be sure that if you approach ModCon Cabins to undertake your work you are in very good hands!



**ModConCabins**  
Manufacturer of Modular, Containers & Cabins

Steel AV Cabins • Smoking Shelters • Chemical Stores & Storage Units  
Staircases & Steps • Effluent Tanks • Water Bowsers • Turnstiles



INTRODUCING

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**ModCon Cabin Trader, the Modular, Portable Building & Plant Industry related, Resale/Auction website!**

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# rapidFit<sup>®</sup> Riser Doors



## Summary of Rapid Access

For over a decade, we have been committed to providing superior Access Panels & Riser Doors to the construction and distribution industries.

We take pride in our role as a top manufacturer and supplier and strive to continue delivering excellence in all we do.



## Sliding Hinge System

Simply push and slide the door into the frame and the RapidFit spring loaded pins will release securing the door.



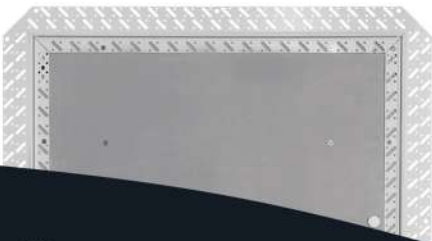
## Beaded Frame changes



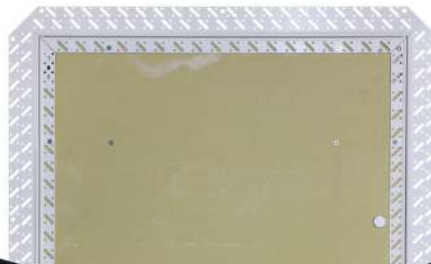
The beaded frame width on our R53 Plasterboard Faced Riser Door range will be changing from **25mm** to **50mm** as standard.

This will give us greater stability when handling and transporting our panels, reducing the risk of snagging and bending.

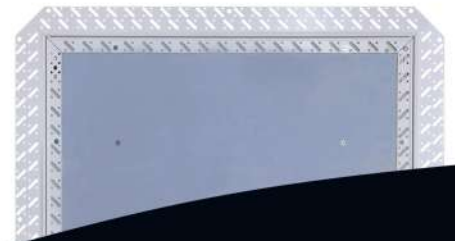
**R53 Non Fire Rated**  
Up to 2400 x 1800mm



**R53 1 Hour Fire Rated**  
Up to 2000 x 1800mm



**R53 Fire, Acoustic & Airtight**  
Up to 2400 x 900mm



# Number one choice for recycled plastic building materials

In this issue of Building Update, we have chosen Kedel as our Eco-Friendly Plastic Products Company of Choice 2024.

Kedel is a family business founded on ethical and ecologically sound principles. Dedicated to making sustainable living attractive, Kedel believe that by incorporating sustainable recycled plastic products into personal and working environments, it can create a happier, healthier and infinitely more sustainable future for generations to come.

Established by three brothers, Kieran, Dermot and Lewis Walch, Kedel is based in Burnley and supplies nationwide. We spoke to Lewis, who explained more about the company. "We manufacture plastic wood made from waste polystyrene, and we are also suppliers of many other types of recycled plastic profiles from other manufacturers. We stock tongue and groove boards, plastic sheet materials, decking, cladding, ground reinforcement and drainage grids, fencing and gates. In addition, we make a wide range of outdoor furniture often combining different types of recycled plastic into one product. These products

include benches, tables, picnic tables, notice boards, to name just a few. We also offer design services and have a large flatbed CNC (computer numerical controlled) machine for cutting and shaping to the CAD design parameters supplied by our customers or created for them by our in-house design team."

As specialists in building supplies and outdoor furniture, one of the main benefits of the products and services provided by Kedel is the long-term investment advantages of recycled plastic. Using recycled plastic not only greatly contributes towards the reduction of carbon footprint, but companies will see a significant reward on their return.

"It never rots, so if you build fencing or decking with it, you only do the job once in a lifetime. There's no cost of ownership, no maintenance – no costs for labour and materials, or for that matter, replacement costs.

Wood is becoming increasingly expensive and difficult to source, and needs constant attention to avoid deterioration. Yes, the initial costs for recycled plastic are higher, but over a 25-year period, a study by WRAP (Waste Resources

Action Programme), in 2000 proved it to be a more cost-effective material due to the product's extended longevity and zero maintenance properties."

'Your Housing Association' in South Manchester installed plastic fence panels made from Kedel's recycled plastic about 10 years ago. They haven't had to replace a single fence panel since!" said Lewis.

In the past, Kedel's plastic wood has been named 'Best Recycled Product' at the National Recycling Awards and is an ideal maintenance free replacement for wood, cladding, gallows brackets, pediments, fascia boards, rafter tails, finials, fencing and decking. Kedel has over 1,000 products in recycled plastics available on its website with a wide variety of profiles to choose from that could save you a lifetime of maintenance and replacement costs.

A notable product in Kedel's sustainable product range is fencing, that comes as fixed or portable panels, or you can buy the materials to make your own. You'll never need to replace a fence again. They are rot-proof and non-absorbent making them very hygienic and easy to clean. They don't chip, crack, or splinter, and are water and frost proof.

Ideal for education establishments and facilities management are Kedel's maintenance-free benches and picnic tables. They look like wood but perform like plastic, and the tables last at least five times longer than wood, making them a very attractive long-term investment.

For companies willing to create a circular economy for plastics, look no further than Kedel.

**For more information, please see below:**  
**T 01282 861325**  
**[www.kedel.co.uk](http://www.kedel.co.uk)**



## The Zero Maintenance Alternative to Wood



### Recycled Plastic

- 100% recycled and recyclable
- Impervious to fungi, algae, insects
- Never rots, splinters or cracks
- Graffiti resistant
- UV Protected
- Eco-friendly and low carbon
- 100% maintenance free
- Lasts a lifetime



Please contact us on 01282 861325  
[sales@kedel.co.uk](mailto:sales@kedel.co.uk) | [www.kedel.co.uk](http://www.kedel.co.uk)



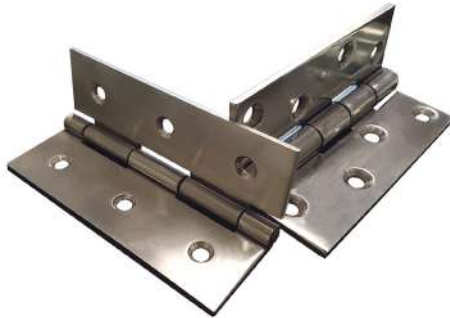
# Exciting News: Gold & Wassall's new website is live!

Here at Building Update, we are thrilled to announce the launch of the brand-new Gold & Wassall Hinges website!

The new website has been a long-term project for the team at Gold & Wassall, who after months of hard work and dedication are overjoyed to see this project finally over the line.

Explore the updated design, user-friendly interface and exciting new features all designed to enhance the user experience.

As well as now making it possible to download CAD drawings and 3D models of each hinge from the website, Gold & Wassall has also introduced a new 'Hinge Finder' that allows the user to narrow down suitable hinges based on their required dimensions. Simply choose your hinge type, hinge length, open width, thickness, and pin diameter, and your results are shown instantly. This will help customers utilise the full range of hinges, and show hinges that they might not have found or considered previously.



Gold & Wassall has been manufacturing hinges for over 200 years using a mixture of tried and trusted methods along with modern technology. The launch of its new website comes timely as the company looks to continue its success into 2024 providing unrivalled levels of customer service.

Based in Tamworth, Staffordshire, Gold & Wassall manufactures all its own hinges out of its in-house purpose-built factory where it also ensures that every product goes through a rigorous testing procedure and receives the upmost attention to detail before being sold. The company prides itself on its customer service and aims to treat every customer fairly and with respect.

The new website also keeps customers informed on the latest news, events and promotions with regular blog posts. The hard-work and expertise that has gone into the creation and deployment of new website will be instrumental in bringing Gold & Wassall's vision for the next few years to life.

You will find on the new website a clearer and cleaner way to scroll through their vast range of hinges from continuous/piano, butt & backflap, standard, lift-off, and special purpose to heavy duty and bespoke made to order hinges.

Furthermore, using the company's automatic section on the website that contains eight lines of automated machines, Gold & Wassall is able to make hinges quicker and to almost any length. The company also maintains the specialist tooling for these machines which can complete multiple operations in each press.

Please note: Gold & Wassall is the only hinge company whose hinges are UK made and all of Gold & Wassall Hinges' stock is available for immediate dispatch.

Explore the new website and discover all that Gold & Wassall has to offer below:  
<https://www.goldwassallhinges.co.uk/homepage>



**GOLD & WASSALL**  
QUALITY HINGES FOR OVER 200 YEARS

## The launch of our brand new website

Gold & Wassall Hinges has established itself at the forefront of the industry since its inception over 200 years ago. With its manufacturing facilities situated in Tamworth in Staffordshire, Gold & Wassall provides an impressive range of services for design, production and manufacture of hinges, all produced in house and distributed throughout the whole of the UK. Boasting an enviable reputation within the industry, the company has positioned itself firmly as the UK's number one manufacturer of hinges.

Gold & Wassall has provided its services to various customers throughout its years in operation and serviced customers from construction to engineering companies. With a proven track record of quality, reliability and durability, Gold & Wassall ensures it maintains complete control over the design and high quality of its goods.

Please check our new website: [www.goldwassallhinges.co.uk](http://www.goldwassallhinges.co.uk)  
Email [sales@goldwassallhinges.co.uk](mailto:sales@goldwassallhinges.co.uk) | Telephone **01827 63391**

# Quality and service count: Customised doors and panelling

**P**andor is a leading manufacturer of customised doors and panelling across the UK to sectors such as commercial buildings, offices, hospitals and flats.

Established in 2014 by Mike Hill, the company has grown exponentially over the last nine years, priding itself on supplying exceptional customer service and high-spec products. Mike has expertise in the industry having worked in the fire door industry for over 40 years and along with his team is happy to provide customers with bespoke orders.

Pandor has production facilities in Sittingbourne, Kent and offices in London. We chatted with founder and director, Mike to find out more about the company, "We specialise in made-to-order client requirements for fire doors, decorative doors, frames and other associated items such as screens and windows."

"Our speciality though due to my background, is certified fire doors and door sets and we pride ourselves on a personal and prompt service with quick lead times on manufacturing."

"The COVID-19 pandemic set us back of course, as the construction industry ground to a standstill. We soon restarted though and have been ever busy, focusing on adding new services in the near future. Our unique selling point is our investment in modern machinery across the board, ensuring that we always produce the highest-quality products. These



include a Holzher 5 Axis CNC Twin Bed Router, heavy-duty sanding machine, veneer flow line press and first-class lipping and edge banding."

Fire doors are integral to optimised passive fire protection systems across industrial, commercial and domestic buildings in the UK. Precision-designed primarily to mitigate against the spread of fire, smoke and toxic gases from one area to another, fire doors allow occupants, whether residents or workers extra time to evacuate accordingly. A secondary factor is that compliant fire doors give firefighters more time to arrive at the scene of the fire and control the fire, before it spreads further. Using a system of compartmentalisation, with fire doors lined throughout in corridors or stairwells, can create fire-resistant barriers in a high-rise block and importantly help slow down the spread of fire and smoke.

Fire doors are given FD ratings from 30, 60, 90 to 120, with FD30 being the most common choice. This

typically gives 30 minutes fire safety protection, in the event of a fire.

Following the tragedy at Grenfell Tower, North Kensington where sadly 72 residents died, the subsequent Fire Safety (England) Regulations in 2022 came into effect on 23rd January 2023. With all eyes on optimised fire safety, Pandor can manufacture customised fire doors, in accordance with FD30, 60, 90 or 120 certifications.

"Our fire doors can be laminated, painted or decoratively veneered and our acoustic doors can also be fire rated. The acoustic door ratings are certified based on how well the sound is contained in the door itself. The doors are tested to different decibel (dB) levels, dependant on the end location, with the higher the acoustic rating, namely the louder the sound it can contain. For example, the acoustic rating for doors in residential flats is 29dB, raising to 30dB in a typical school classroom."

"We supply fire-rated panelling if required, in stock and cut sizes, with a choice of veneer, laminate or paint finishes. Finally, our door frames are manufactured to customised order, with clear or paint finishes," added Mike.

**For more information,  
please see the details below:**  
**T 0208 2797611**  
**M 07909 530007**  
**mike@pandor.ltd**  
**<http://pandor.ltd>**



## Pandor

### BESPOKE DOOR AND PANEL MANUFACTURERS

FIRE DOORS | ACOUSTIC DOORS | PANELLING | DOOR FRAMES

#### THREE KEY VALUES

SUPERLATIVE QUALITY | SHORTEST DELIVERY | ATTENTION TO DETAIL

OFFERING SERVICE LIKE NO OTHER

EXCELLING IN ACHIEVING FAST LEAD TIMES  
FOR **BESPOKE FIRE DOOR SETS**

QUALITY AND SERVICE WITH A SMILE

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# Caring for the Environment - Healthcare & Hot Water

To help achieve climate-neutral building stock by 2050, the healthcare sector is being challenged to reduce operational energy use. Securing more sustainable hot water is one of the best, and easiest ways of making active carbon savings today as the sector invests to meet a shortfall in beds and a desire to optimise space in the face of the growing trend for self-contained single-room spaces, preferably with wetrooms which are more practical for those with restricted mobility.

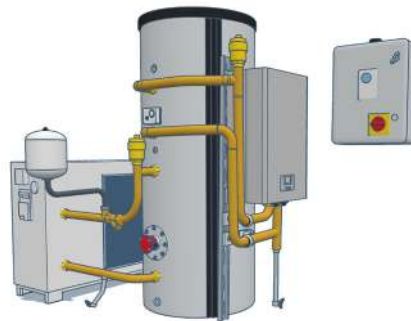
Addressing the efficiency of domestic hot water (DHW) systems – whether through the implementation of heat pumps, solar thermal, direct electric water heating or even simple modernisation of existing gas appliances – helps properties meet new construction and sustainability goals in a practical and cost-effective manner.

For buildings already on gas and that rely on large amounts of DHW, silent solar thermal preheat is the preferable option. But looking forward, new build projects, unless exhibiting very large hot water demands, will struggle to receive permission (under Part L of the building regulations) for a new gas connection and as a result will specify electric-based systems.

Larger retrofit projects could likely face the same issues, although this will remain unclear until updates are published as the Future Buildings Standard in 2025. This still should lead to application design tending towards that which blends heat pumps for

preheat with other sustainable options that can include solar thermal, but particularly electric boilers. New hybrid system approaches, including prefabricated packaged plant rooms, also provide for better use of the spaces that already exist, without the need to undertake expensive and disruptive building projects.

Though not applicable to private care facilities, it is worth noting NHS health technical memoranda (HTM) 04-01 states any preheat vessels must be guaranteed to preheat to a minimum of 45°C. This effectively precludes the use of solar thermal as a lone source for preheat due to annual variation in production. It does, however, match the minimum working flow temperature for preheat that would be designed into a system utilising the current generation of air source heat pump.



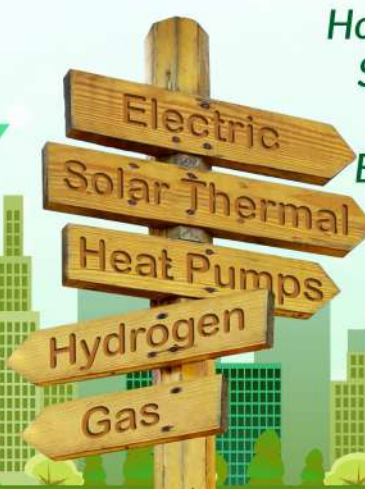
Under such conditions, a typical sustainable application would see a cylinder sized to meet the storage requirements of the building's hot water demands with the heat coming from a combination of an air source heat pump and solar thermal collectors. Working together the renewables can offset the majority of the electrical costs otherwise required to heat the water, even during periods of peak demand.

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# LS Products BV to introduce new Autonomous range in 2024

In this issue of Building Update, we are pleased to feature LS Products BV as our Landscaping Product Company of the Year.

LS Products BV is the manufacturer of the innovative Eco Clipper electric mower system that was introduced for the turf grower industry in 2018.

Due to the fact that all the mowers in the range are electrically driven and use a special mowing deck design that incorporates small mowing blades, the Eco Clipper range delivers fantastic contour following and has the capability to disperse clippings well even in wet grass.

Furthermore, because of the high-speed mowing system, productivity is inevitably higher and fuel efficiency better due to the small blades and electric drive. The machine is very quiet and versatile under different conditions such as dewy grass and weeds.

The Eco Clipper® Mowing System evolved from the mowing system that was originally developed in the nineties on the turfgrass farm of the Leijenaar family in the Netherlands. At that time, the electrically driven 10m wide rotary mower was a revolution for the turfgrass industry, and up until 2008 there has been various models of this rotary mower developed and marketed by Leijenaar Products BV.

In 2019, the Eco Clipper range was successfully introduced to turfgrass farms across Europe and then in 2020 they introduced the 14.11-meter-wide Eco Clipper: RM14 Butterfly Mower and the Eco Clipper TM14 tri-deck mower that were both revolutionary mowers for the turfgrass growers and sports ground sectors.



Syb Leijenaar is the Managing Director of LS Products BV and has a vast amount of experience that is deeply rooted in mechanical engineering and mechatronic systems design, and is one of the creators of the Eco Clipper range. We asked Syb how the company has fared over the last 12 months and what plans it has for the future.

"The last 12 months have been slower business wise, although it seems business is picking up since summer. As we are an agile company, we used the opportunity to spend more time on new developments. Our current developments are mainly focused on autonomous large area mowing. Our autonomous mowing system will be introduced in the coming year. We offer a 309cm or a 513cm wide Eco Clipper mowing deck where the power comes from either a diesel generator or a 61kWh battery pack."

"We are keen to increase productivity in large area quality mowing, hence lowering the mowing costs for our customers. For turfgrass growers and sports ground managers, we already have the most productive equipment in the market due to the large cutting width and high possible mowing speeds. For the autonomous mower it is important that it can be operated safely without immediate supervision otherwise it won't save labour. Therefore, we have partnered with a Danish firm that fully focuses on safe operation of autonomous equipment in the field."

Due next year, the Eco Clipper Autonomous Mower uses three different types of obstacle detection: camera; lidar; and radar for its safety in dusty environments. The new Autonomous range will meet speeds of up to 16km/h and surpasses all safety standards with its cutting-edge obstacle detection technology.

"Over the next few years we expect to grow gradually in the sports ground market. We receive strong feedback from our users stating that they like the capacity, quiet running and economic use of fuel. In 2024, we will be introducing the autonomous mower on a couple of selected farms. We want at least a year of real-life experience before we introduce these systems to a wider audience," added Syb.

LS Products and its Danish partners are really pushing the boundaries in autonomous mowing solutions, and the next five years are looking very fruitful for both businesses. In closing, we asked Syb how he felt receiving our award.

"I feel honoured being selected for the Landscaping Product of the Year Award. When you work with these products every day, you no longer notice that they are different. This award reminds us that we stand out. We are proud of that."

**For more information, please see below:**  
[info@ecoclipper.com](mailto:info@ecoclipper.com)  
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# Leaders in services, and health and safety for the piling industry

Situated in Glasgow, Burnside Plant Ltd is a piling contractor and a company that prides itself on achieving the very best in customer satisfaction. Through this ethos, the company has established a strong reputation for its outstanding services, among its portfolio of regular clientele based throughout the UK.

Utilising its dedicated and professional team, Burnside Plant maintains an impressive amount of experience and expertise, enabling the company to be able to provide an understanding and flexible approach to its customer's requirements, while maintaining the highest levels of quality and safety.

"We provide a whole service including design, supply of materials and installation of sheet piles, tubular piles and provide hire or sales of the piles," said Shirley.

Burnside Plant provides sheet pile installation, cofferdam installation, king post installation, mini piling installation, tube installation, permanent and temporary design works, sheet pile hire and sale, Movax hire and haulage services, across the UK.

The company design, supplies and installs a vast amount of products including interlocking Larssen sheet piling retaining walls, for use in both temporary and permanent applications, king post systems, to meet UK standards and its customers particular specifications, and provides various methods of mini piling. Burnside Plant also maintains its own haulage for delivery and collection of sheet piles and all plant hire.

Shirley added, "We complete the whole scope of the

job. Our customer base can be quite varied, clients can range from civil work to everyday householder's requiring foundation piling for doing an extension."



One of the main aspects of the company's services is its commitment to health and safety.

Shirley stated, "We are Constructionline gold accredited, which means that we uphold high standards of health and safety, including online health and safety for our team. We are fully accredited and we have also taken out other health and safety precautions, including height restrictors on our machines and dead man switches, in case of an emergency. We have adopted various health and safety practices, as we understand that this is a dangerous industry and we have taken all the necessary precautions to ensure that everyone from our employees to anyone around, is kept safe."

As the company looks ahead, Burnside Plant is proud of what it has achieved so far and has experienced consistent growth. Moving forward, the company plans to continue to expand, and gain further confidence from its clients, knowing that their health and safety is of paramount importance to Burnside Plant.

"To be able to receive Constructionline gold, shows to our customers that we are a responsible company, doing everything we can to ensure safety." Shirley continued, "We are a small company, so we are very proud of it. We feel this is why our customers speak so highly of our services and often recommend us to others."

**For more information, please see below:**  
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**Glasgow**

# Make your project possible

**D**CON Safety Consultants Limited offers leading health and safety consultancy and construction statute advice services. The company prioritises and specialises in the highest levels of informed and intelligent advice, senior project resource allocation and compliance assurance. Informed by industry expertise, DCON Safety Consultants Limited knows that every project has potential risks, no matter what its potential benefits, so its team of highly experienced construction professionals helps to ensure clients' statutory conformity.

Upon gaining understanding of the specific needs, goals and desires of each client and their project, DCON Safety Consultants Limited is dedicated to implementing a design and construction management plan that will meet or exceed these requirements. And, DCON Safety Consultants Limited ensures that there is honesty, integrity, trust and professionalism underpinning every project.

Moreover, the company's services are centred on three delivery principles:

- **Maximising Quality:** The company implements proven health, safety and wellbeing strategies to help clients achieve high quality and cost-effective work commensurate with the design of their projects.
- **Minimising Risk:** The company effectively manages design and delivery risk on projects to match each client's desired risk level profile.
- **Managing Compliance:** The company relies on its extensive background working on a wide variety of projects to assist clients in developing, monitoring and maintaining compliance performance.

This excellent service would not be possible without the leadership of Diarmuid Condon, a construction industry leader who brings unique perspectives to encourage,



support and mentor the abilities of his colleagues. As a construction professional with a surveying background and experience spanning two decades, Diarmuid is emblematic of DCON Safety Consultants Limited's commitment to providing outstanding services to clients.

Diarmuid has contributed his invaluable expertise to over 400 projects over 20 years, with a client list including public sector departments, corporate owners, real estate developers, main contractors, design professionals and infrastructural bodies. With this incredible portfolio, Diarmuid is helping DCON Safety Consultants Limited to become a leader in health and safety consultancy across the construction industry.

Key to DCON Safety Consultants Limited's services is working as a Project Supervisor for the Design Process and CDM Advisor in various sectors across the Irish construction market. No project is too simple or too complex for the company's construction safety consultants, all of whom are construction professionals with an average of 20 years' experience in the built environment. The ability to maximise this knowledge

and skillset means DCON Safety Consultants Limited can generate distinctive and innovative ideas from traditional PSDP service inputs and outputs.

DCON Safety Consultants Limited also provides its main contractor clients with intelligent, practical, and reasonable physical site safety advice to support compliance and good practice adherence. Behavioural safety outcomes inform how the company approaches each solution with the contractor and their supply chain, identifying opportunities for improvement.

To complement this, DCON Safety Consultants Limited can also help with clients' health and safety strategy. Its holistic and integrated approach can help unlock substantial benefits for clients by providing a structured, objective and SMART framework for full optimisation through the creation of an environment that embraces health, safety and wellbeing.

This means DCON Safety Consultants Limited helps clients to improve their health, safety and environmental performance; enhance staff satisfaction thanks to improved performance; improve risk management and corporate governance with a clear audit trail; gain confidence from long-term planning, better sustainability and performance; and improve overall corporate reputation, including greater staff satisfaction and a more efficient procurement and supply chain.

If you are interested in finding out more information on DCON Safety Consultants Limited's full range of excellent services, head to the website or get in touch directly using the contact details below.

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# IAS for your perfect access platform



In this issue of Building Update, we are honoured to select Independent Access Sales (IAS) as our Access Platform Company of the Year.

Access Platforms are indispensable for working at heights or hard-to-reach places, providing workers with a robust structure across many industrial sectors. Many essential services such as air conditioning units, pipes, and ductwork are often stored high in the roof and access platforms are key to installation and essential repairs/maintenance throughout the year. With health & safety in mind, the steady, well-fabricated structures give extra reassurance to workers, throughout the operation period.

Independent Access Sales (IAS) is a relatively new company but with decades of expertise behind it. Established in 2020 by Managing Director: Richard Martin, the Huntingdon-based company is set to take the country by storm.

IAS is a distributor of access platforms across the UK and Ireland and Richard brings more than 35 years of industry experience, from scaffolding, cradle platforms, erection, surveyor, to supervisor. "We are getting noticed now across the industry. We have won three awards in the last twelve months, including a Golden Award from Media2. We've been to numerous trade shows and generated a lot of interest."

"We are excited to reveal that we have exclusively signed with SOCAGE: producer of globally-leading aerial platforms to distribute their truck-mounted platforms, up to 100 metres. A truck-mounted platform



is a mobile elevating platform, which can be attached to a road-licensed chassis and is great when you require an access platform to be adaptable, as it can be switched from site to site easily. We are looking forward to adding this to our growing portfolio and by

the New Year, expect to be selling a wider range of Easylift Spider Platforms, SOCAGE Truck Mounting Platforms and Leonardo HD by Bravi HD to new and existing customers across: facilities management, construction, heritage restoration to tree surgery and many more."

The existing SOCAGE truck line has been flying off the shelves with customers already this year: the SOCAGE 20T carries loads up to 230kg and is a favoured mounted platform for working at height. The SOCAGE 21DJ works up to 20.3M and is a second popular choice for many applications.

For those working in facilities management or heritage restoration, the Easylift srl Piattaforme Aeree R360 provides a turret rotation of 360° for cleaning and delicate work in limited spaces. Designed to work at a height of 35.4M, it is also preferred by tree surgeons for all aspects of arboriculture. The R260 model works to a maximum height of 26M, with an outreach of

13.5M, precision-designed for maintenance and installation jobs.

The Bravi Platform HD meanwhile is the default choice for tight spaces and doorways, offering a sturdier alternative to scaffolding or ladders.

IAS offers a full consultancy service for new customers, to source the perfect access platform and moving forward, offers six-monthly inspections, servicing and maintenance, meaning you can just get on with the job at hand.

"It is a real pleasure to hear repeat custom across many sectors. We take great pride in customer service, from our expert, technical know-how, to quick lead delivery times."

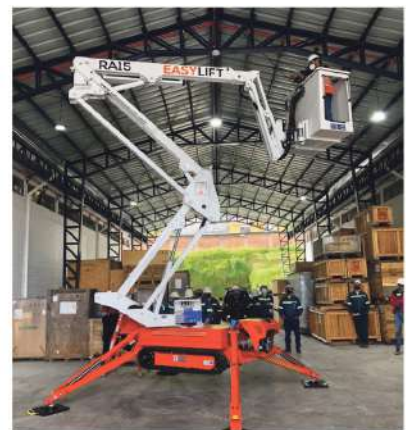
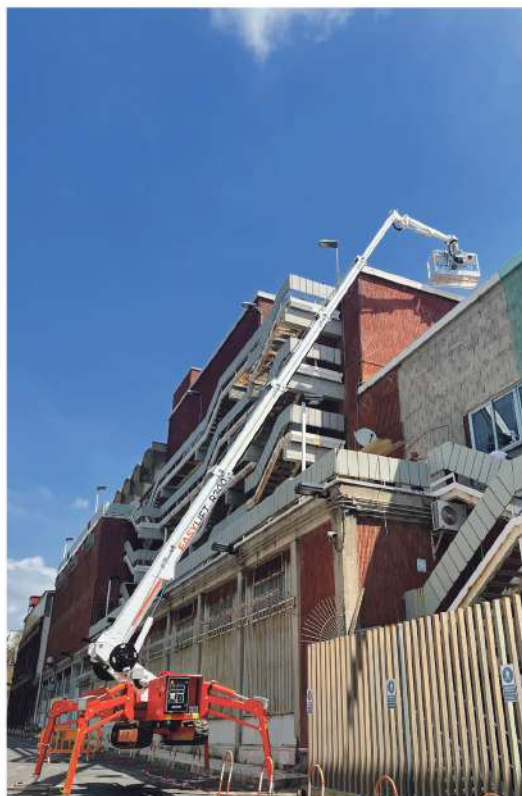
"In the near future, we are hoping to begin talks with a dealership of little truck booms. These are ideal for a variety of one-day applications from street work, signage, windfarms to pest control. Look out for our Spring demo road tour round the UK! We look forward to meeting new and existing customers then."

The company currently has an extensive range of used machinery for interested customers, including: JLG660SJ Articulated Boom, Aerial AL22 Truck Mounted, Multitel MJ201 Truck Mounted and Easylift R180 Spider Platform, please see this link for details: <https://iasales.co.uk/used-machines>

**For more information, or to view the product range, please see the website below or ring Richard Martin directly:**  
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# Protecting your investment, with award-winning, sustainable products

**E**xternal wall insulation (EWI) is one of the fastest growing areas within the UK construction industry. For time immemorial, timber pattresses have been used to secure the fixing of satellite dishes through to utility boxes upon reinstatement. This was until SWIFIX: an Exeter-based company came up with a brilliant, innovative design range that bypassed traditional timber methods in 2016.

Paul Brown is the Director and brains behind the operations, with an extensive background in leadership in senior management, starting his career as a plasterer completing EWI.

SWIFIX is a multi-award-winning company that designs cutting-edge solutions for securing external furniture through External Wall Insulations (EWI). Since its inception in 2016, the range has been extensively extended, including a recent, exclusive design partnership with SKY telecommunications for a new product for securing cables and small pipework.

"We work with a broad range of customers from Architects, Local Authorities (LA's) to major contractors and system designers providing surefire solutions for securing external wall



furniture, through insulation and cladding, across a range of properties, including retrofit, new build, and the off-site modular sectors.

"Our unique design approach has brought robust solutions to market, for securing external furniture through EWI. These include: satellite dishes, rainwater goods, canopies, light alarms, signage, cables, pretty much any item that needs reinstatement," explained Paul.

The SWIFIX range are PAS2035-compliant for quality assurance and with easy installation and added cost-efficiency, it's easy to see why they are the leading choice for many customers.

The products are regarded as industry-leading, shortlisted for the National Energy Efficiency Awards (2016): with many other accolades recognising innovation and Excellence in the Energy Efficiency Sector, and more recently, The INCA Innovation Award Winner in 2021. The Insulated Render and Cladding Association (INCA)

is the recognised trade association for the EWI industry across the UK and awards are given for exceptional work in the industry. We asked Paul, in his own words what made SWIFIX products so special, "SWIFIX are recommended by many system designers as a product of choice, due to the fact that by using the solution and the way in which they are installed, they protect warranties and guarantees for the systems installed."

"The range provides a robust and watertight solution preventing ingress of water, which is damaging to systems. It truly offers a unique solution, unsurpassed by competitors, as it is suitable for many different formats and can hold greater weights. Overall, it is significantly cheaper than its competitors, offering considerable cost savings."

"I'm very proud of our green credentials: it is a very eco efficient-range, made from partially recycled plastics with all the parts are fully recyclable, along with the packaging, making our products very attractive in the age of sustainability."

**For more information on this award-winning range, please see below:**  
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# Bluerun Ltd once again achieves excellence in the workplace

In this issue of Building Update, we are proud to announce that we have selected Bluerun Ltd as the recipient of our Commitment to Excellence award.

Upon reopening its doors in May 2020 after the COVID-19 pandemic, Bluerun Ltd has gone from strength to strength with its trusted brand now being known as one of the best in the joinery industry that has recently attracted big name brands turned clients, Starbucks and Waitrose.

2022 was a great year for the company in terms of revenue and new business. It has managed to maintain a strong conversion rate despite the current economic crisis and has found that enquiries for larger jobs as opposed to 'single window' types of jobs has been more popular especially from domestic clients which mimics that of its regular commercial clients.

Based in Wimbish, near Saffron Walden in Essex, Bluerun manufactures quality, bespoke joinery items and everything is made to order, nothing is 'off the shelf.' Dee commented, "We manufacture items for the commercial market from door and window packers, to shopfronts, reception desks, mainframes, pub doors, and years ago we even made a trebuchet for Stansted Mountfitchet castle!"

Of course, the company has the capabilities to manufacture most things from timber, hardwood, softwood, panels and sheet material. Some common items Bluerun Ltd manufacture for the domestic building market include windows, doors (exterior and interior), bi-folding doors, staircases, bespoke storage units and wardrobes, all of which come with the option of being sprayed in primer or to a finish.



Dee Newman, Finance Director at Bluerun Ltd presented the Commitment to Excellence Award

If you're looking for items made from both hard and softwood or even veneered and painted panels, Bluerun can reproduce an array of items including replacement sashes, where it can manufacture a brand new one on a like for like basis, so the mouldings will match. "Similarly, if a domestic client has found an image of a door, for example, that they would like us to reproduce, we can usually do that. Recently we

have started using a glass supplier that can supply us with stained glass effect units, complete with leading that has been aged and soldered, which looks absolutely breath-taking," added Dee.

Bluerun only produce purpose made joinery to client's drawings and specifications. Its unrivalled level of customer services means that free quotations are normally provided within 2-3 days or less, and the company can usually deliver a quick turnaround of any manufactured items required. And, because it has an experienced spray operative in charge of a modern spray paint and lacquer facility, articles can leave the factory in a fully finished state, ready for installation on-site.

What really sets Bluerun apart is that since its establishment it has never used computer aided machinery for any designs. Crafted to perfection, all items are finished by hand, drawings are prepared with pencil and paper, and everything that is manufactured by the team has been done so with the utmost attention to detail. It also has the ability to obtain colour matches of any paint colours for clients that would prefer something sprayed to a finish.

Apart from needing the item to fit out its workshop doors upon completion, there is no limit to any project that Bluerun will endeavour to take on. Inspired by a challenge, Bluerun will do its utmost to cater to all enquiries.

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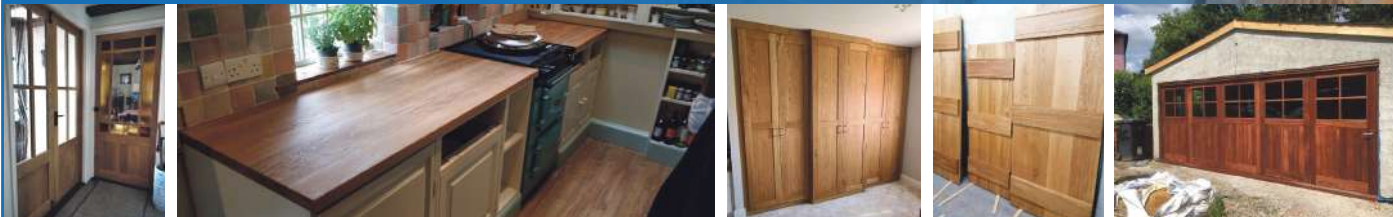


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## Timber



The Company was founded in 1883 by Louis Vandecasteele. In those days, wagon making was the main commercial activity. Desiré Vandecasteele, son of the founder, then added a small sawmill.

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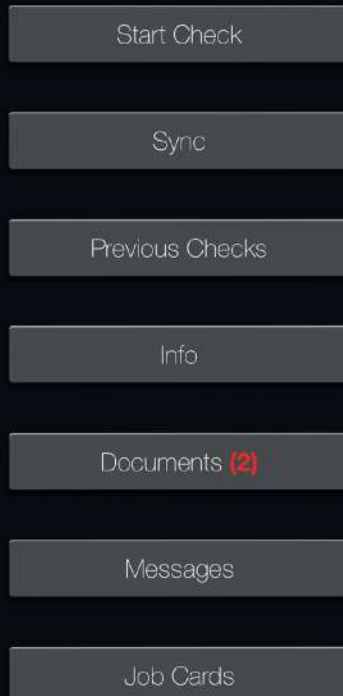


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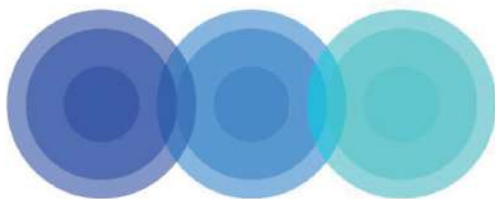
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# Biopharma Group: Your end-to-end partner for lyophilization and bioprocessing success

**B**iopharma Group empowers your pharma and biotech projects with tailored solutions and expert guidance, every step of the way by offering you end-to-end solutions for all your lyophilization and bioprocessing needs, offering:

■ **Extensive capital equipment range:**

From freeze dryers and cryopreservation storage vessels to analytical lyo instruments, Biopharma Group boasts a comprehensive lyo and bioprocessing lab equipment portfolio configurable to suit your requirements.

■ **Unparalleled expertise:** With a team of product specialists, scientists, engineers, and renowned lyophilization experts, they provide unparalleled knowledge and support. Biopharma Group offers more than equipment to buy; they become your trusted partner in achieving project and product development success.

■ **Scalability and flexibility:** Whether you need to scale-up or scale-down, Biopharma Group's team can advise on equipment options and provide the support to adapt to your product development or project's evolving demands.

■ **Exclusive distributors:** Biopharma Group is the exclusive distributor of our capital equipment portfolio across the UK, France, and Ireland.

■ **Customisable services & solutions:** Unlike a 'one size fits all' approach, product specialists, with assistance of an in-house scientific team, can offer configurable solutions to align with your project's unique needs.

■ **In-house R&D and training:** For those developing lyophilized products and liquid formulations (internationally), Biopharma Group also has a CDMO division dedicated to R&D and manufacturing services with a team of scientists offering contract research,



development, manufacturing (non-GMP and GMP) and lyophilization training courses, ensuring you have the knowledge and resources to excel.

■ **Beyond equipment:**

Biopharma Group goes beyond simply supplying lab equipment. Whether you have a short-term need whilst waiting for delivery of your lyo equipment or have a long-term CDMO partner requirement; Biopharma Group's dedicated Contract Development & Manufacturing division can also offer customers from the pharma, diagnostics and biotech industries access to a comprehensive range of R&D and manufacturing services for lyophilized products and liquid formulations too; all from one partner. A selection of services include:

■ **Freeze drying and associated services:**

From formulation and cycle development, pre and post-lyophilization analytical services, to finished product manufacturing (non-GMP) and early phase clinical manufacturing (GMP), Biopharma Group has you covered.

■ **Proof of concept studies:** Assess the feasibility of your project before full-scale development.

■ **Low bio-burden suite, cytotoxic handling & Category D labs:** Dedicated facilities for handling sensitive samples or high-potency samples and products.

■ **Contract manufacturing and production:** Biopharma Group can take your products from the initial R&D phases through to production (non-GMP) or early phase clinical trials manufacturing (GMP).

■ **Investing in the future:**

Biopharma Group is committed to continuous innovation and expansion, and as a group of brand divisions they are currently:



- Licensing their first, early phase clinical trials GMP production facility for contract manufacturing needs.
- Expanding its capital equipment portfolio for bioprocessing.
- Building two new category D labs to handle increasing demand for diagnostic and biological samples processing, in addition to extending cytotoxic handling capabilities to offer even more services to assist the pharma, diagnostics, and biotech industries.
- Collaborating with industry peers to develop **dual-use formulations** suitable for both liquid formulation and freeze-dried applications, reducing the need for cold chain storage.

Partnering with Biopharma Group offers a true, end-to-end approach and solution for your lyophilization and bioprocessing needs from purchasing capital equipment for your lab or production facilities to full-service CDMO and lyo-analysis services.

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# RMIG: We make ideas come to life

**R**MIG is the world's largest manufacturer and supplier of perforated metal and its related products. We know our customers' requirements for price and quality and meet their demands with uncompromising service. Not only do we offer standard and bespoke perforated metal sheets, we are able to offer you a range of secondary operations as detailed below.

## Complete solutions

With a continued investment in the latest equipment and a network of professional partners, we are able to produce prime quality products and solutions – from a simple perforated sheet to the fully formed and coated custom made part.



## Cutting

We can cut and shape perforated sheet to meet the needs of your final application.

## Levelling

For some applications a high degree of flatness is required, we have processes in place to ensure our perforated coils and sheets meet with your most demanding requirements.

## Rolling and forming

We can roll, bend and form perforated sheets to match your design.

## Aesthetic finishes and protective coating

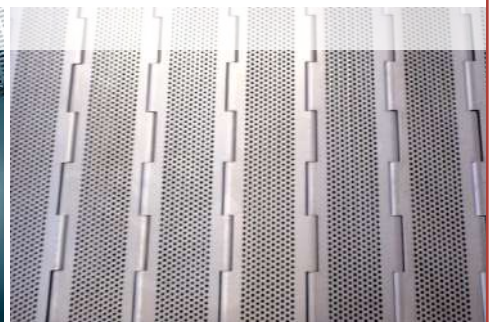
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**RMIG Solutions**

we make ideas come to life



## Industrial Processing

Industrial Processing includes a vast range of potential applications for perforated products. RMIG has extensive experience in the chemical, pharmaceutical, paper, and offshore industries, to name a few. From small, high precision perforation in thin materials to large holes in thick sheets used in the mining industry, RMIG has the knowledge, versatility, and tooling to deliver products according to customers' requirements.

One particular area of Industrial Processing is dealing with waste water. The water industry presents a number of unique challenges in the use of perforated products.

A key consideration here is the aggressive nature of the water towards the materials being used.

RMIG has vast experience in servicing the waste water industry, and produces high flow, burr-free perforated waste water screens, offering accurate screen tolerances and effective separation.

Another area of Industrial Processing is medical and pharmaceutical, where RMIG's perforated materials are able to give firm tolerances during their manufacture, and are well suited for use in sterile environments.

## Bridge Slot

The RMIG Bridge Slot sheets play an essential role when it comes to the design and manufacture of biomass drying floors. The combination of sheet thickness and opening size allows RMIG's sheets to be used either as a suspended floor in wood chip drying containers and trailers, or as drive-on drying floors in outdoor buildings.

The bridge slot opening size determines the products that can be dried, which range from fine oilseed rape through to larger grains and cereals, as well as logs and wood chip drying.

## Food Processing

RMIG's Food Processing market sector meets the high levels of hygiene demanded by the food processing industry. Perforated screens are also strong with important thermal capabilities, making them useful for a wide range of food processing applications. RMIG's tailor made perforated solutions are ideal for cleaning, heating and steaming in food production environments. Whether it's baking trays, cereal cleaning or ingredient conveyors, all of RMIG's perforated materials can be customised for each application.

For more information, please visit: [www.rmig.com](http://www.rmig.com), telephone: 01925 839610 or email: [info.uk@rmig.com](mailto:info.uk@rmig.com)

# Take sound to the cloud with Quantum from Cirrus Research



For more than five decades, health and safety practitioners have turned to noise monitoring equipment such as handheld sound level meters and personal noise dosimeters to assess noise levels in the workplace. However, with more and more businesses choosing to operate from multiple sites as opposed to across one site, it's possible that these more traditional methods of noise measurement and monitoring may no longer be the most efficient.

### Quantum; the future of noise measurement

Quantum Indoor from Cirrus Research is a powerful noise monitoring solution with built-in cloud connectivity, perfect for continuous occupational noise monitoring, identifying the source and type of noise that is occurring, and highlighting where noise control measures are required.

With this instrument, it has never been easier to measure and monitor workplace noise continuously and remotely across one or multiple sites.

The cloud technology that is built into the Quantum instruments allows health and safety practitioners to connect multiple noise monitors on one account, allowing for data from each noise monitor to be viewed and assessed on one platform. This creates a network of interconnected instruments, whose data can be viewed and analysed side-by-side, removing

the need to download information from separate handheld instruments one-by-one.

Additionally, Quantum indoor provides a constant ear to the ground, offering live and historical data round-the-clock that practitioners can access from anywhere, at any time and on any device. Whether users are on the other side of the planet to where the instrument is installed, or they're stood in the next room, the data is always accessible on demand via the online Quantum portal, powered by MyCirrus.

With a network of cloud-connected noise monitors, the need for users to be physically on-site to measure noise levels is vastly reduced. Cloud-connected monitors, such as Quantum Indoor, can be installed and left to do their jobs completely unattended. They can then be configured remotely to send users real-time alerts when noise events occur, which provides greater control to health and safety practitioners in the workplace.

With Quantum Indoor, you can:

- **Link multiple units** to form a cloud-connected network of noise monitors to make viewing the full picture of your workplace noise impacts easier.
- View your **live and historical data** in the Quantum portal anytime, anywhere around the world on any device.

- Create numerous **audio triggers and notifications** based on your personal set of conditions for acceptable noise emissions, and receive these notifications via email, SMS or push notification.
- Use the **frequency analysis** screen on the Quantum portal to further view and analyse your noise data and better understand the exact nature of the noise.
- **Create detailed reports** directly through the Quantum portal based on direct data captured by your Quantum Indoor units.

The Quantum Portal; powered by MyCirrus. With the Quantum Portal there are no fixed fees or set up charges. With Cirrus Research, users are offered subscription packages that are flexible to fit in with your noise monitoring programme and your preferred level of usage. These flexible plans means that you have the ability to change your subscription up or down on a monthly basis.

Powered by MyCirrus, this portal is suitable for all Quantum noise monitoring devices, and can also be used with other instruments such as the Cirrus Research Environmental Noise Measurement Kits.

### Subscription tiers available to users are:

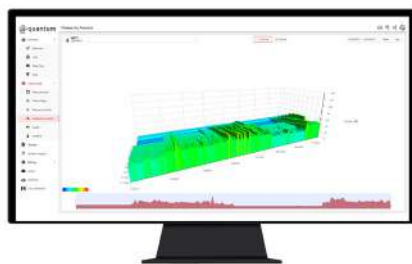
- **Standard subscription:** supplied as standard for 1 year and perfect for teams who need to analyse and report on noise events.
- **Pro subscription:** For large teams who need access to noise frequency data, customisable data views and detailed reporting.
- **Data retention only:** Perfect for anyone who does project work and needs to store their data between jobs.

### Complement your existing noise management programme

With the ability to provide a greater level of control, make more intelligent decisions and reduce the need for unnecessary travel between multiple workplaces, Quantum Indoor is the perfect cloud-based noise monitoring instrument to complement your existing noise management programme.

Say 'hello' to Quantum today and speak to the Cirrus Research noise experts to learn more.

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# BTA Drilling: Brazed Versus Indexable Tooling

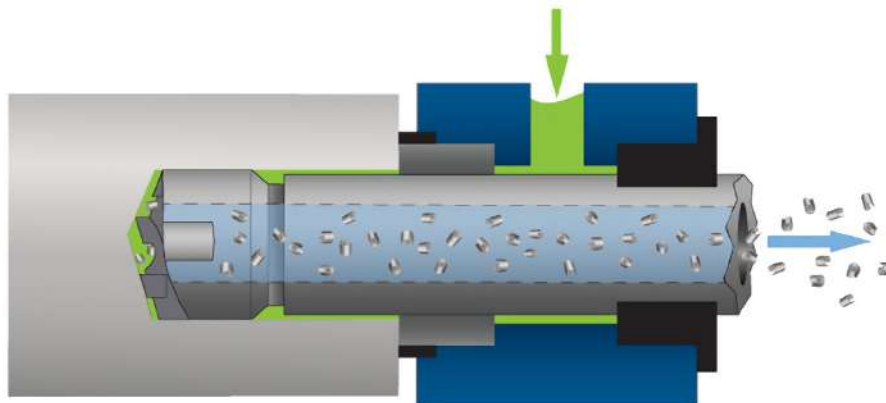
Photos: UNISIG

Deep hole drilling applications can be approached in several ways, but one of the most effective methods is often BTA drilling. BTA stands for Boring and Trepanning Association, although it is sometimes referred to as STS or Single Tube System drilling. Unlike gun drills or twist drills a BTA drill features internal chip removal, which has advantages in both productivity and hole quality.

The BTA drill head has multiple carbide cutting edges and guide pads mounted to it. Open spaces are designed into the head for chip removal, and chips are evacuated through the drill tube the head is threaded onto. Pressurized coolant surrounds the drill head in operation, and is key to forcing chips through the head and out the drill tube. This method of chip evacuation allows for a very clean and reliable process with excellent surface finish and high drill feed rates – typically 5-7 times faster than gundrilling at the same diameter. No peck cycles or feed interruptions are needed, resulting in reduced machine time while drilling extended depth-to-diameter ratios even greater than 40:1.

BTA drills are generally available in two forms: brazed or indexable; and tool selection is dependent upon several factors. As the name implies, brazed tools involve brazing a carbide insert and guide pads onto a steel body, while indexable BTA drilling tools have carbide inserts either directly mounted to the head with a retention screw or seated in a cartridge that is mounted to the tool.

Hole diameter is the initial consideration when determining whether to use brazed or indexable BTA drills. For small hole diameters



– generally 12 to 20mm in diameter – brazed tools are often the first choice as it's difficult to make small inserts and screws strong enough to withstand the torque and forces of BTA drilling. (Manufacturers of BTA drilling tools continue to make improvements in indexable BTA heads as small as 8mm in diameter, however).

Brazed tools offer extremely close tolerances and excellent surface finish as the insert and guide pads are mounted and then ground to the specified diameter, providing almost perfect concentricity and cylindricity. Ease of use is also a benefit – simply attach the head to the drill tube and discard it when it has dulled or failed. If you experience a tool failure, the investment in drill head isn't as costly as repairing or replacing an indexable drill head. Finally, an indexable BTA head can only be as accurate as the tolerance of the inserts themselves; but a brazed head has been ground to a very precise tolerance from the manufacturer.

By contrast, hole diameters starting at approximately 20mm favor indexable tools, primarily for economic reasons. Replacing larger diameter brazed tools is expensive, whereas indexing an insert and guide pads gives an easy extension on the tool's life. Indexable insert manufacturers also offer an exhaustive range of carbide grades, coatings and chip breakers for application-specific advantages.

The placement of the indexable inserts on BTA drill head varies by diameter and by manufacturer, and can include one or multiple inserts mounted directly to the head or set in a heat-treated cartridge, which is then mounted to the head. Guide pads are typically mounted to the head to counter the drilling forces and burnish the hole during drilling. Indexing, or rotating, a direct-mounted insert is as simple as loosening the retaining screw and turning the insert to expose a fresh cutting edge. If the insert and pocket were made with tight tolerances, your cutting diameter should remain reasonably consistent.

Cartridge-mounted inserts, however, typically incorporate a shim or other adjustment system to allow for a much more precise diameter setting after indexing inserts and guide pads. This process does require additional equipment, however, such as a micrometer and stand or tool presetter – as well as the skills needed to accurately make the necessary adjustments.

Whether you select brazed or indexable BTA drills for your deep hole drilling application, you will be rewarded with high feed rates and process reliability, along with minimal centerline deviation and excellent hole quality.

Further information on all machines 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).



Brazed BTA heads – carbide inserts and guide pads are brazed onto the drill head

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# Our proven process: How UNISIG leverages experience & expertise to solve customer challenges



For over 40 years, we've helped our customers achieve success in deep hole drilling, providing them with the machines, automation and support they need to be competitive and profitable.

We have found that the initial energy we and our customers spend at the beginning of a quoting process pays off throughout the entire project, from inception to installation. We take a systemised approach not only during this critical phase but also throughout the entire sales process. This ensures there are no surprises and that our customers know exactly what they can expect when starting discussions with UNISIG about their gundrilling and deep hole drilling needs.

### This is our approach at UNISIG:

#### 1. We listen to our customers, ask questions and understand what they need.

This may seem obvious, but often the temptation is there to just skip to a quote because we think we know what is needed after a brief discussion. Sometimes that is true, when the application is straightforward and familiar, or it is something we have a packaged solution for. We always try to make the quoting process quick and efficient, but there are times when the application deserves a more in-depth conversation. Our salespeople and engineers listen very carefully and often pick up on small details – a specific tolerance, material condition, process requirement or a future need for flexibility – that may change our recommendations.

When it makes sense, our experienced sales team or engineers will visit a customer to see

what is needed firsthand. Whether a site visit or just a virtual meeting, this initial investment of time to clarify the need saves the customer money and provides them a truly valuable solution.

#### 2. We first identify a standard solution from our product line that can be applied at the lowest cost and shortest delivery possible.

At UNISIG, our product development mindset is to systemise solutions from our experience in many different industries, make them automation ready and embed application flexibility whenever possible. We invest millions of dollars annually in our product line and related spare parts, giving us a strong starting point for new applications. Our standard product line encompasses much more than machines, including standard automation, workholding, accessories and tooling that we can offer as part of the solution.

Once we have identified a standard machine as a starting point, our engineers seek out smart, practical ways to meet the customer's application needs. The goal is to innovate within the machining operation planning, work holding or automation, as opposed to engineering a completely special solution without first exhausting opportunities to solve problems with standard products.

For our customers, this approach provides them a reliable, standard machine that can be used for many years and that has the built-in flexibility for easy re-tooling to adapt to future needs. For us, initially working within the boundaries of our catalogue cultivates new ideas that can then be applied to improve our standard products as well as help us direct future research and development budgets.

#### 3. If a standard solution isn't available, we consider a customised solution and we stand behind it.

UNISIG is very good at building customised machines, and we do so often. Once we and our customers agree that a special solution is needed, we move forward with a great deal of confidence and experience. We start by evaluating how we might approach the design using standard modules or proven concepts, thus eliminating long debug cycles and/or high costs. Then we use our mechanical and electrical engineering disciplines to virtually test the new machine before we build it.

One of the key reasons our customers are confident moving forward with a UNISIG custom machine is that they know we will stand behind it and that we have substantial capabilities to ensure it always exceeds their production expectations. We approach these special projects with the mindset that a custom machine will be used for decades in production, which is why we provide the same documentation and long-term technical support for all our machines whether standard or custom.

#### 4. If a commodity solution is readily available, we recommend that rather than upsell a machine the customer doesn't need.

We build machines that can gundrill or BTA drill deep holes that are impossible to drill on machining centres. Even if it may be possible to drill some deep holes on a CNC machining centre, our machines have the power, speed, dimensional accuracy, spindle density, coolant systems and process control that will improve productivity, tool life and reliability.

Typically, though, when a customer comes to UNISIG with a specific part need, at that point they've most likely already struggled with a conventional machine and realised that a deep hole drilling machine is obviously the way to go.

However, our team knows how to identify whether or not an application would truly benefit from a UNISIG solution. When it wouldn't, we will suggest viable alternatives. It's not that we don't want to sell a machine. But the fact is that our experience has shown that at some point the alternative-solution direction becomes obvious, and we want to make that apparent early on in the process so as to avoid wasting a lot of our customer's time.

Our customers expect the best from us, and we believe that our proven process ensures we never disappoint. Our goal is to leverage our core values to serve our customers as best we can and build strong, productive relationships for years to come.

For more information:  
[www.unisig.com](http://www.unisig.com)

# Big benefits from small parts picking in pallet racking

Edward Hutchison, Managing Director of BITO Storage Systems, explains how using pallet racking for small parts storage turns this ubiquitous storage product into a flexible order picking solution.



racking comes to the fore because small parts picking can be easily integrated within pallet racks. One option is to create small parts pick locations on the reachable ground level, with upper storage levels serving as a buffer store for replenishment. Small parts storage containers will help to store and organise small goods and C-parts – making them available for quick and easy picking.

While constant innovation generates a stream of new intralogistics solutions, ‘classic’ pallet racking remains the most commonly used storage system. Its relatively low investment costs and flexibility – whether through changing rack configuration, retrofitting special purpose modules or adding extra bays – have made it an indispensable framework for storage and order picking systems.

Of course, many operations use pallet racking as the basis for straightforward storage and retrieval of full pallets, either to fulfil customer orders or as a bulk store for replenishment. But the trend toward shorter product life cycles is increasing SKU numbers. The

drive to minimise stock levels for each SKU and improve picking process efficiency to speed up order fulfilment, combined with demands for Just-in-Time delivery and online retail, is generating a greater need for small parts storage.

This is where the adaptability of pallet

This will result in a reasonably efficient picking process but ground floor locations within a pallet rack will, of course, be limited. Solutions are therefore required to maximise the available space to create a pick face with sufficient locations for the required SKUs, and enough stock to ensure availability during picks.

Flow shelves can be easily installed into pallet racking to increase the number of pick locations and volume of SKUs located on the ground level pick face. Goods are easily accessible from the front of the racking – the rollers on the flow shelves allow bins and containers containing small items to be picked roll smoothly to the front of the shelf – which makes picking easy. A full container of parts will roll to the operator each time the empty one at the front removed.

Standard shelving is another option to create flexible small item pick faces within pallet racking. There are several solutions: the first incorporates static shelving at right angles to the racking, with space in between each run to facilitate picking. An alternative option is pull-out mobile shelving that maximises the available space under the racking – though movement of



shelving has a negative impact on pick time. A third solution involves static shelving parallel to racking, which makes front items easy to pick. Shelving dividers can be fitted.

Inclined supply shelving within a pallet racking bay will make items clearly visible for picking. Cardboard cartons or plastic bins can be used, though the later option enables preparation in advance at the goods-in area by filling the plastic bin with the items to be picked.

Plastic bins and containers will keep goods protected throughout the intralogistics process and during transport to ensure the quality of products are delivered to the customer in prime condition. It is worth seeking out storage system suppliers that in addition to offering racking, shelving and in flow lanes, also provide a container range comprising a variety of sizes with and a broad choice of accessories. Such a supplier will be able to design the optimum system to fit a given space, maximise the potential for small parts picking and, ultimately, improve fulfilment.

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**T 01945 464637**  
[info@glwengineering.co.uk](mailto:info@glwengineering.co.uk)  
[www.glwengineering.co.uk](http://www.glwengineering.co.uk)

## Architectural Glass



**Demon**  
Designs

A leading Architectural and Structural Glass contractor in the Ford area. We are a team of skilled professionals who tackle everything from complex large projects to smaller scale jobs.

**T 01903 733206**  
[info@demon-designs.co.uk](mailto:info@demon-designs.co.uk)  
[www.archglass.co.uk](http://www.archglass.co.uk)

## Machine Knives




A reputation for high quality machine knives, with over 25 years of experience, which we supply to industries throughout the world.

**T 01454 322178**  
[sales@camb-knives.co.uk](mailto:sales@camb-knives.co.uk)  
[www.camb-knives.co.uk](http://www.camb-knives.co.uk)

## Metal Improvements



**CURTISS - WRIGHT**

Curtiss-Wright surface technologies provides customers a single-source solution and point of contact for all their controlled material surface treatments, supporting their requirements through our global network of over 70 worldwide facilities and on-site field teams, improving and reducing turnaround times and costs.

**T +44 (0)1635 279621**  
[euosales@cwst.com](mailto:euosales@cwst.com)  
[www.cwst.co.uk](http://www.cwst.co.uk)

## Industrial Applications



**CML** INNOVATIVE TECHNOLOGIES  
A Group Action Company *WHERE INNOVATION COMES TO LIGHT*

Working with light since 1931, CML is the market leader in the field of miniature lighting for signalisation. As one of the first companies to introduce LED lamps, nearly 30 years ago, CML is now the supplier with the broadest range of miniature lighting products in the world.

**T +44 (0)1284 714700**  
[uksales@cml-it.com](mailto:uksales@cml-it.com)  
<https://cml-it.com/en>

## Online Training




Wise Global Training offers flexible and cost-effective online health and safety training from globally recognised awarding bodies such as NEBOSH and IOSH. If you need a fast and cost-effective way to gain your qualification, our online training is perfect! We also offer short online awareness courses to help tick those boxes for your staff training. Contact us today for more information. We are here to help you succeed!

**T +44 (0)1482 211989**  
**info@wiseglobaltraining.com**  
**wiseglobaltraining.com**

## Air Pollution Control Systems




Providing specialist industrial air pollution control, gas treatment and odour control packages – turnkey supply of the complete system: design, supply, installation and commissioning – all backed by a process guarantee.

**T 01403 290000**  
**info@ergapc.co.uk**  
**www.ergapc.co.uk**

## Sensing & Control Devices




British Encoder Products Co. is the European Branch of the Encoder Products Group, a worldwide manufacturer of motion sensing and control devices serving the diverse needs of its global customers. We are a customer-driven company that is responsive in the areas of customer service and technical support.

**T +44 (0)1978 262100**  
**encoder.co.uk**

## Electrical Products




The SIMONBOX IP66 watertight floor box is designed for use in hard floor areas which require occasional power and data connection and an IP protection rating. Typical ip66 waterproof floor box installations include Department Stores, Airports, Train Stations and Car showrooms.

**T 0203 286 7949**  
**simonbox.co.uk**

## Sealing Solutions




Service Sealing Solutions are the sole UK distributor for the sealing industry's top manufacturers; DOYMA and HKD.

**Contact**  
**T 01952 510050**  
**www.servicesealingsolutions.co.uk**



## Measurement Applications




Interface Force Measurements Ltd is the master distributor for Interface load cells in the UK, Ireland, Middle East and North Africa. While we are separate companies, our interests and values are closely aligned in a long-term commercial relationship spanning over 30 years.

**T +44 (0)1344 776666**  
**interfaceforce.co.uk**

## Emission Monitoring & Gas Control

ECO PHYSICS AG offers innovative analytical solutions for measurement tasks in the fields of environment, health and process control.

**T +41 55 220 22 22**  
**info@ecophysics.com**  
**www.ecophysics.com**

## Hand Protection




Manosun hand protection want to bring a change to the end-user experience in selecting and buying industrial gloves, gauntlets and sleeves (PPE).

**Contact**  
**T +44 (0)191 300 8699**  
**sales@manosun.co.uk**  
**www.manosun.co.uk**



Rutland Farm Park is a small 18-acre working farm in the market town of Oakham, the county town of Rutland, England's smallest county.

We are open all year round for you and your family to explore our tracks and meet and feed our wonderful and friendly animals.

### Opening Times

#### Summer

Tuesday – Sunday 10am–5pm  
(Last entry at 4:30pm)

*(Summer opening times start when the clocks go forward in March and Winter opening times start when the clocks go back in October)*

#### Winter

Monday – CLOSED

Wednesday – Sunday 10am–4pm  
(Last entry at 3:00pm)

Open on Bank Holiday Mondays  
Closed Christmas Day and  
New Years Day

### Admission Prices

#### Farm Park Admission

Adult 13+     **£9.50**  
Child 3–12    **£8.50**  
Under 3       **Free**  
Family ticket **£33.00**

*(2 Adults and 2 Children/1 Adult and 3 Children) We offer 10% Military discount with a valid ID*

#### Annual Passes

Adult 13+     **£82.00**  
Child 3–12    **£73.00**

*Annual Passes are valid for 1 year from the date of purchase*



Please visit [www.rutlandfarmpark.co.uk](http://www.rutlandfarmpark.co.uk),  
contact **01572 722122** or  
email [info@rutlandfarmpark.co.uk](mailto:info@rutlandfarmpark.co.uk)

