

INDUSTRIAL

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SOLUTIONS UK

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INNOVATIVE TECHNOLOGIES & SUSTAINABLE MEASUREMENT STRATEGIES FOR THE MARINE ENVIRONMENT

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Editors Comments

Hello & Welcome to Issue 678 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 SubCtech and LAUDA Technology.

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

Secondly, we are featuring LAUDA Technology with the 'Temperature Control & Measuring Instruments' profile following their impressive performance over the years. For more information, turn to pages 16-17.

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.

For more information or format requirements, please see our [Media Pack](#).

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Sponsored by **UNISIG** on pages 7-9
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Industrial Processing



Passion for perforation

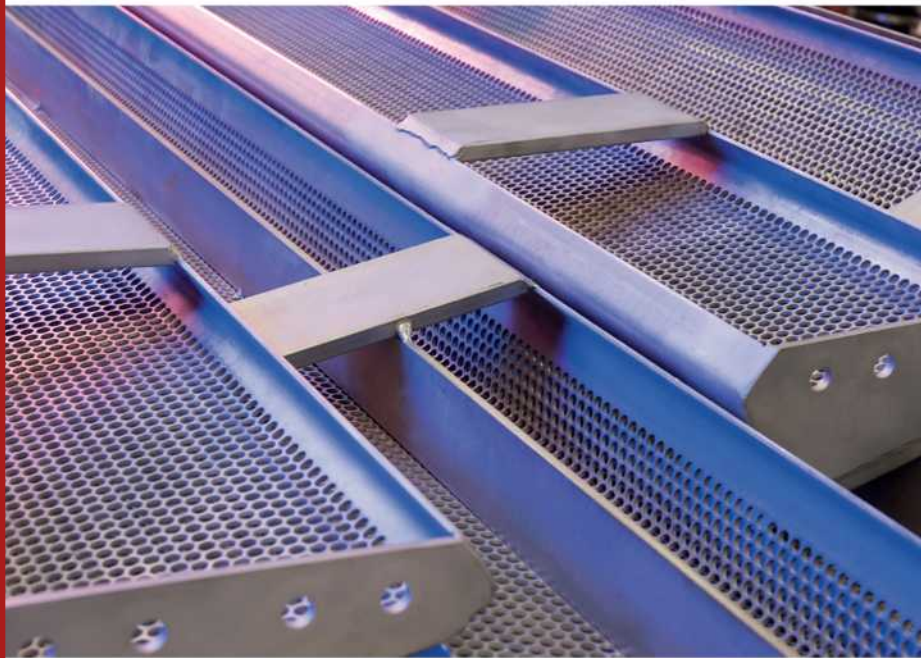


Industrial Processing

Industrial Processing includes a vast range of potential applications for perforated products. RMIG Solutions 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 Solutions 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 Solutions 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.

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

RMIG Solutions' perforated products also have numerous uses in the petrochemical sector, from industry specific applications such as filtration, to oil and gas exploration, as well as more general applications such as walkways in processing plants.

Bridge slot

The bridge slot sheet from RMIG Solutions play an essential role when it comes to the design and manufacture of bio-mass drying floors. The combination of sheet thickness and opening size allows RMIG Solutions' 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 Solutions' 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 Solutions' 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 Solutions' perforated materials can be customised for each application.



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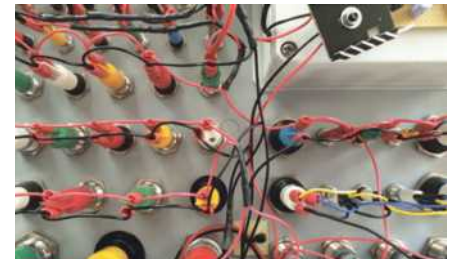
Working with light since 1931, CML is the market leader in the field of miniature lighting for signalisation. As one of the first companies to introduce LED lamps, nearly 30 years ago, CML is now the supplier with the broadest range of miniature lighting products in the world.



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BTA Drilling: Brazed Versus Indexable Tooling

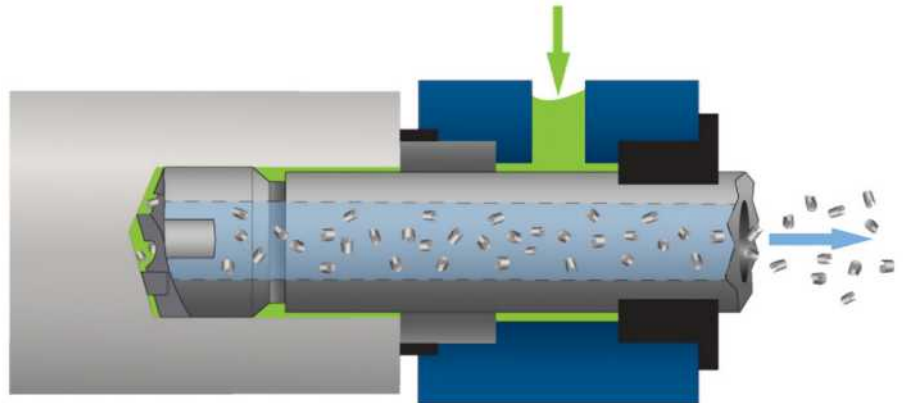
Photos: UNISIG

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.



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

Further information on all machines and the complete UNISIG machine program is available at: www.unisig.com or follow the company on LinkedIn and Twitter (@UNISIG).

Is your Driving for Work policy good enough?

If you play the National Lottery, you may be aware that the odds of winning the jackpot are a staggering 1 in 45 million, yet, many of us think those odds are worth a go. After all, someone has to win, right?

There are almost 40,000 injuries on Britain's roads each year that involve someone who was driving for work at the time. With around 20 million vehicles thought to be used for business journeys, however infrequently, that means the odds of one of your drivers being involved in an injury collision while driving for work are just 1 in 500 yet we never think it will happen to us.

But, the bad news doesn't stop there. We have reason to believe those injury figures are significantly under-reported which would make the odds even worse. And, this is an average, so, if your driver safety management is below average, then your odds are starting to look very poor indeed.

If you have staff who drive cars or commercial vehicles for work, and you want to ensure your employees are not part of the problem, it's vital to set out the importance of driver safety – and the good practice standards you expect when your staff are driving for work.



Your organisation needs to do this for three reasons:

- 1) It's the right thing to do – we all want our staff and other road users to get home to their families safe and well at the end of each day.
- 2) It makes good business sense. Poorly managed drivers will increase admin time, insurance costs, maintenance and fuel use.
- 3) It is a legal requirement – the law says all companies must have policies and procedures to minimise risk – and that includes the recognised risks around driving. In the event of a serious incident, you could be asked to prove what you do to promote driver safety.

To communicate your commitment, and the required standards to drivers, you need a driving for work policy.



What should be included in a driving for work policy?

A good policy needs to include specific information in a concise and easy-to-understand format. Here's a summary of what needs to be included.

- A **policy statement** which explains to drivers why the policy exists and why it is important they follow it at all times.
- A **driver management** section covering licence checks, medical conditions, driver competence and fitness to drive including impairment, fatigue and wellbeing.
- A **vehicle management** section including vehicle roadworthiness, safe loading, vehicle security, private use of vehicles and towing, if applicable.
- A **journey management** section including driving standards, use of mobile phones, dealing with fines and penalties, and what to do in the event of a collision or breakdown.
- A **grey fleet drivers** section – for those employees who use their own car for business journeys. It's an area often missed but every time an employee uses their own vehicle for any work purpose, you have the same legal responsibilities for managing safety.

Review and update

To be legally compliant, your policy also needs to be kept up to date and reviewed regularly. From



time to time, official legislation and guidance will change or be updated. This might come from the DVSA, the Health and Safety Executive, government or be reflected in the Highway Code. Many of these changes might need to be reflected in your policy and communicated to drivers.

The policy must be owned by a director or similar senior manager who has overall responsibility for creating, communicating and reviewing it, as well as monitoring compliance. This person is also responsible for keeping the policy up-to-date.

Driving for Work Policy Builder

A new, free to access, Driving for Work Policy Builder has just been launched by Driving for Better Business – the free programme from National Highways. The programme is set up to raise awareness of the need to manage driver safety, share good practice, and promote the business benefits that flow from this. The new Policy Builder is an online tool which will help ensure you have a 'good practice' Driving for Work policy and that you can keep it up to date.

The Policy Builder is completely free to use and will enable you to:

- Access a driving for work policy template and checklist to make sure you've got everything covered,
- Create a new policy document, or review an existing document, that meets legal and compliance standards;
- Get email alerts for any changes in guidance or legislation that could affect your policy;
- Receive an annual reminder to review your policy, along with any changes that may be required since the last review;

Get started with the free online Driving for Work Policy Builder now.

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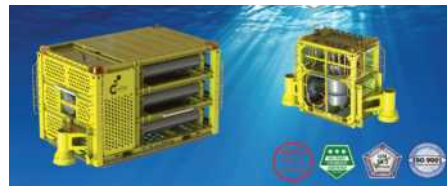
In this issue of Industrial Solutions, we are happy to feature award-winning SubCtech (Subsea Technologies for the Marine Environment) a leading manufacturer of underwater technologies for its Commitment to Excellence in Ocean Power and Monitoring Systems.

Established in 2010 by Applied Physicist: Stefan Marx (CEO), the maritime powerhouse is based in Kiel, Northern Germany. With a diverse team of expert mechanical and electrical engineers and software specialists, this medium-sized company is committed to next-generational R&D, bespoke project consultation, rigorous testing of prototypes and first-class manufacturing.

Under the expert guidance of Stefan Marx, the company is divided into two specialised sections: Ocean Power Products and Ocean Monitoring Equipment offering a range of products tailored for various marine and subsea applications.

The Ocean Power Products are supplied primarily to customers in offshore oil & gas companies, monitoring stations/moorings, subsea applications and autonomous underwater vehicle (AUV), remotely operated vehicle (ROV) manufacturers. The Li-Ion battery systems (PowerPacks) range from standard, subsea, vehicle, customised batteries, chargers to battery-management systems (BMS.) The advanced-precision titanium housing is fully customised and can be used for depths up to 6,000m.

The subsea batteries, for example allow high-performance for a design life of 25 years, with the electronic and Li-Ion cells meeting meticulous, optimised safety standards. The rechargeable Li-Ion



batteries provide robust subsea Uninterruptible Power Supply (UPS) and are perfect for marine and offshore technology applications, offering next-level capacity.

"Our batteries undergo rigorous heat, shock and vibration testing, to reach the UN T38.3, MIL-STD, DNV or API17F standards of compliance and other on request," said Stefan.

The PowerPacks™ automatically protect itself e.g. at low voltage, to prevent damage, leaving operators assured of safety at all times, with the capacity to disconnect in the event of overcurrent or external short circuit. The advantage of Li-Ion batteries over Alkali primary batteries, is the high current operational features, ability to function at subzero temperatures and during high currents/peaks. Furthermore, the corrosion-free titanium housing can be used up to depths of 6,000m. The batteries are used for industrial applications and are tested in accordance to API17F, MIL-STD, DIN-EN and DNV – according to the application.

The ocean monitoring equipment provided by SubCtech is essential for scientific institutes, researchers aboard vessels, and sailors. This equipment facilitates comprehensive

monitoring of surface and subsea environments, focusing on greenhouse gas levels and micro-plastic sampling. The flagship product, the Autonomous Underway Measurement System (AUMS), is specifically designed for pCO₂ monitoring on 'Ships of Opportunity.' It is highly versatile and can be enhanced with additional sensors, such as the Meteo Top-Box for Sea-Air Exchange flux measurements and other third-party instruments.

The latest Microplastic Sampler for example, offers autonomous monitoring on any type of sea vessel and can detect even the smallest presence of microplastics in the water, down to particles per m³. The next-level robust, waterproof design provides accurate sampling, even on high-speed boats travelling at 30kn.

Stefan said, "We are experiencing rapid growth in our industry, driven by high demand for our Ocean Power products. We serve customers globally, including Europe, Asia, Australia, and the US, ensuring safe transport of our UN T38.3 certified Li-Ion batteries worldwide via airline cargo."

"Our professional sales partner network streamlines service delivery across regions. In response to exponential growth, we've nearly doubled our staff to 76 and plan to expand our facility from 1,200sqm to 4,000sqm."

"We prioritise environmental sustainability, using LED lighting, promoting public transport, and recycling all components, including batteries. Our Microplastic Sampler aids scientists in monitoring ocean microplastic pollution, which affects marine life and human health."

"Our latest innovation, the Subsea 1MWh Energy Storage System (ESS), is nearing completion and will soon be delivered to maritime industry customers. This groundbreaking ESS, currently in System Integration Test (SIT) with Technology Readiness Level 5 (TRL 5), exemplifies our commitment to high standards."

"Looking ahead, we aim to lead in Subsea and Ocean Power Solutions and Ocean Monitoring Systems globally. We seek strategic partners and are eager to expand our network within the international Oceanology sector."

For more information, please see the website below:
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BUILDING UPDATE

ISSUE: 678 September | www.solutionspublishing.co.uk

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Gromtec Europe: The SIMONBOX

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Available through your local electrical wholesaler or online. For more information, please visit: www.simonbox.co.uk or call: 0203 286 7949.

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Make your project possible

DCON 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



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.

T +353 (0)1 611 1556
diarmuid.condon@dconsafety.com
www.dconsafety.com

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



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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: M 07483 246878 enquiries@iasales.co.uk service@iasales.co.uk www.iasales.co.uk



SWIFIX: Leading products to enable fixing through EWI



Protecting Your Investment

In this issue of Building Update, we are delighted to showcase SWIFIX with our prestigious Production Innovation Award for the EWI sector.

Multi-award winner SWIFIX is synonymous with excellence and innovation and since inception in 2016 has seen astonishing year-on-year growth. With growth expected to more than double this year, Founder and Director Paul Brown has taken on a new company depot to expand the fulfilment side of the business.

The key milestones in the company's history include partnering with CityFibre to roll out UK-wide broadband with leading installation products such as fibre broadband cables, catenary wires and utility boxes. A further collaboration with Exeter College as consultant on curriculum saw the design and delivery of retrofit boot-camps and upskilling courses for the insulation sector.

Paul began his career as a plasterer working on the restoration of ornamental plasterwork before moving into the EWI sector over two decades ago and working with a company that is now a FTSE 250 listed company. Gaining working knowledge across the sector, Paul worked in a number of directorships delivering EWI, Decent Homes maintenance, gas and electrical and renewable services.

With expert knowledge of the EWI sector at large, specifically within the housing sector, Paul saw a niche market and started designing and producing a range of fittings, dedicated to refitting and installing lightweight and heavyweight items through EWI systems. These innovative fixings have been approved and specified by many EWI system designs and clients across the UK and can be used during or after system installation.

"This work progressed further as a key member of GCAP (Green Construction Advisory Panel): a group of individuals set up in the South West from across industry; including installers, suppliers, landlords and merchants. The mission of GCAP is to bring sustainable training and education opportunities to the housing and construction sectors." explains Paul.

With the legislative passing of PAS 2030 in 2017 and PAS 2035 in 2019, the industry has moved away from the more traditional usage of timber pattresses, which are now seen as poor practice by many experts including the Chief Construction Adviser (CCA) Peter Hansford. The traditional method of fixing items, such as satellite dishes, fence/gate posts, external pipe work, lights/alarms, canopies, utility boxes, through to washing lines and hanging baskets had been through timber pattresses, spreading the load over a larger area of surface wall. This however contributed to cold spots, thermal bridging and even impacted on insulation qualities, alongside the natural wear and tear of the timber itself.



The SWIFIX range is PAS 2035-compliant for retrofitting, modular housing sector and future-proofed for maintenance provision, meeting stringent requirements to mitigate against insulation compression, with its industry-leading watertight seal. The products include single universal fittings, satellite fitting kits, pipe connectors, connection point fittings, and tap fittings. The multi-award-winning SWIFIX external wall fixings are available via wholesale merchants and come highly recommended by the UK's leading systems manufacturers as 'Products of Choice.'

The SWIFIX range includes the following:

- **SWIFIX single universal fitting:** Secures, downpipes, vent pipes, canopies, lights, alarms, and more
- **SWIFIX satellite fitting kit:** Designed for refitting a standardised satellite dish through EWI.
- **SWIFIX Pipe connector:** Securing small to large pipes and cables, giving a robust, watertight seal.
- **SWIFIX connection point fitting:** Ideal for attaching cables, hanging baskets, trellis utility cables and washing lines.
- **SWIFIX tap fitting:** Fits an external tap through EWI, ensuring a watertight seal.
- **Introducing new additions to the SWIFIX family:** A range designed for fixture to render for small lightweight cables, through to thermally effective solutions for air source heat pumps and air conditioning currently being developed.

"We're proud to be recognised for this Production Innovation Award – our Devon-based company has grown exponentially since 2016 and we are now supplying products throughout the UK and Europe. We've established long-term relationships in Greece, Poland and Germany and are hoping to expand further across the continent in the near future. Business is flourishing due to the unique nature of our products on the market."

"We routinely work with Architects, Local Authorities (LA's) to major contractors and system designers providing innovative, industrial 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."

"With the current accelerated focus on the circular economy and meeting the UK Government's 2050 net-zero targets, we are proud to report that the SWIFIX fixing range is made from partially-recycled plastics, with all parts and packaging fully recyclable, reducing the need for landfill. For any EWI Systems Designers looking for sustainable product options, this is an area that we are delighted to be endorsing."

For more information or to talk to Paul Brown, please see details below:
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<https://www.swifix.co.uk>



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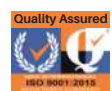


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Modular Building Designs for Construction



ModConCabins
Manufacturer of Modular, Containers & Cabins

In this issue of Building Update, we are pleased to feature Modcon Cabins for its Commitment to Excellence in creating bespoke modular and portable buildings.

ModCon Cabins provides modular and portable building solutions, specialising in custom cabins made from shipping containers. Their services are particularly valuable to the building industry because they offer flexibility, fast installation, and eco-friendly options, which help meet the diverse needs of construction sites while optimising site setups.

ModCon's steel anti-vandal cabins provide robust security for machinery, tools, and office equipment, while their fully fitted welfare units deliver essential



amenities like kitchens, bathrooms, and toilets. These units are equipped with electrical wiring, insulation, and additional features such as water bowser pods and effluent tanks, ensuring seamless site operations with all necessary modern conveniences. Ideal for construction sites, these products help clients maintain secure, fully functional environments that are both efficient and comfortable for workers.



Converting an unused cabin into a workshop can be a highly practical solution for a workspace on a construction site, and this is what Modcon Cabins do best. Whether they are to be used in combination or alone, ModCon can configure your cabin in a multitude of ways to best suite your requirements.

Portable cabins offer adaptable solutions for various site needs, such as tool storage or accessible office space on construction sites. They combine strength, versatility, and portability, making them essential for eco-conscious and adaptive construction. These self-contained structures are cost-effective without sacrificing durability or design. Their flexibility allows for easy relocation, repurposing, and redesign as required. ModCon Cabins provides expertly crafted modular buildings that meet industry demands, delivering high-quality, customisable units tailored to specific client needs, ensuring both functionality and premium design in the construction sector.

Brand new cabins and buildings will give you a complete blank canvas, enabling you to customise it as you wish. ModCon will work with you to assemble and complete your building to an exceptional standard, allowing you to choose from their wide range of brand-new cabins that include Plastisol, Secure Storage, Anti-Vandal, Flatpack, Welfare, Secure Fuel Storage, Chemstores and more.

Refurbishing old cabins into new spaces has several positive environmental impacts including reducing waste by repurposing existing structures, minimising the need for new materials, and lowering the demand for resource-intensive processes like steel and concrete production. ModCon's used alternatives still offer similar benefits to brand-new but with a reduced-price tag.

Eco Modular Buildings from ModCon are significantly more sustainable than traditional constructions, using fewer materials and less energy. ModCon's eco cabins go further by reducing energy consumption and potentially enabling the generation of renewable energy, lowering both environmental impact and energy bills. Committed to helping clients meet sustainability goals, ModCon includes features in its full fitout service that future-proofs cabins, minimising pollution and waste. These solutions align with modern environmental standards while ensuring long-term efficiency and eco-friendliness.



For every portable building process, ModCon will work with you from the initial enquiry through to the customisation, build, project management, delivery and setup. From your first interaction to the moment you step into your new space, ModCon's process is seamless.

As a trusted UK-based manufacturer and supplier, ModCon Cabins delivers both functionality and premium design in their modular buildings. Founded by Alan, now Managing Director, the company has been serving various industries since 2018. What began as a local venture quickly expanded into a strong team with over 50 years of combined experience. Known for their honesty, integrity, and exceptional customer service, ModCon Cabins has earned a reputation for providing comprehensive cabin and shipping container solutions across the UK, with their work and dedication speaking for itself.

Whether you're looking for a brand-new modular building complex or require refurbished shipping-container solutions, please get in touch below:
T 0333 404 8822
M 07842 318869
info@modconcabins.co.uk
<https://modconcabins.co.uk>



CBeebies Rainbow Adventure: Bringing immersive theatrical experiences to retail

The CBeebies Rainbow Adventure opened a few weeks ago to great acclaim. The BBC children's channel has always been loved by children up and down the land, with generations of families tuning in for In the Night Garden or Bedtime Stories. The latest crop of popular hit characters include: Mr Tumble & Friends, Bluey, Hey Duggee and JoJo & Gran Gran and all four feature in the new CBeebies Rainbow Adventure.

Housed in the Westfield Shopping Centre in Shepherd's Bush, the immersive experience can be found on Level 0, next to Next and is open to families with young children. The 55-minute theatrical extravaganza takes visitors through four interactive rooms with children invited to collect rainbow colours to complete the rainbow at the end. With exciting video imagery and props throughout, it's the perfect way to entertain children throughout a busy and tiring shopping day trip.

We were lucky enough to catch up with Sandpit Creations, an award-nominated creative workshop based in London and one of the teams involved in bringing the CBeebies Rainbow Adventure to life.

Sandpit Creations is on a mission to create innovative sets, props, and experiences that both engage audiences and are built to withstand interaction. The team of widely skilled creatives include carpenters, creative and concept designers, scenic artists, textiles specialists, creative technologists, prop makers, sculptors, and metalworkers as well as writers, directors and performers.

From modern and traditional fabrication techniques including joinery, fibreglassing, textural effects, microelectronics, and robotics, Sandpit Creations deliver next-level special effects and theatrical immersive experiences.

Established in 2023, the award-winning team has already worked with high-profile clients like Samsung, Doc Martens, Aardman, Cupra, Kew Gardens and Wakehurst and completed projects in museums, attractions, bars and corporate events, with the dream team delivering perfect project management each time.

We caught up with Director Dan Barr to find out about this latest exciting project, "We worked on lots of different elements on this project: incorporating CBeebies archive video clips with set design and props, which was great as we got to work in a multidisciplinary way. In the Hey Duggee room, our brief was to design and make a traditional grandfather clock. Due to Building Regulations, we had to source fire-rated fire, which is not available from a standard Building Merchants and we had to use a specialist supplier. The clock features in an interactive 'disco scene' and the clock hands spin round, which was achieved by the clever insertion of an electric motor."

"Our creative team loved working on the carved butterfly installation, involving a rope pulley from the ceiling. The butterflies are all painted with beautiful, bright, striking colours, which makes all the children smile."

"The rainbow tool box is also made from fire-rated plywood and has toadstools and moss carved on to the toolboxes. It looks great and at the end, one of the CBeebies' actors pushes the button to create the illusion of a rainbow, incorporating the best in micro-electronic programming."

"The immersive theatrical experience is a long-term installation and we will be on hand to visit the site and carry out necessary safety checks and repairs as necessary."

"Immersive experiences are here to stay and are increasingly popular in the hospitality sector, especially bars and restaurants, leisure complexes, water parks, through to retail outlets and museums."

"We are a media-savvy generation, with younger people driving next-level technology, AI and robotics and immersive spaces add another layer of fun and enjoyment to public spaces."

"It's not an entirely new concept though: the Rainforest Cafe restaurant chain fashioned tropical rainforest ambiances across North/South America and the UK in the 1990's. Utilising plastic plants, fog machines, waterfalls and the enchanting sounds of the rainforests, the restaurants tried to emulate the 'first rainforest culinary experience.' Diners would be greeted by faux ancient ruins, suspended papier-mâché birds and butterflies and even a statue of Atlas. The chain experimented with animatronic animals and the centrepiece was the simulated night sky on the ceiling, accompanied by atmospheric thunders storms. Though rather rudimentary and crude by today's standards, this did set the wheels in motion and points to a captive audience dating over thirty years."

**If you have an idea for a project across the building, hospitality or other sectors, contact Sandpit Creations today:
T 07547 352391
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**To find out more about CBeebies Rainbow Adventure and to book tickets, click here:
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Make your business stand out with the best signage

In this issue, we are delighted to feature Superior Signs for its Commitment to Excellence in the Construction Industry.

Superior Signs is a family-run business based in Bury, Lancashire and has been providing a leading signage business for over 50 years.

The company was established in 1973 by current MD Geoffrey W Buckley and supplies to a wide range of applications from: professional services, councils & charities, retail, food & leisure, healthcare & social care, construction & trade, to education & SEN. High-profile customers over the years have included: NHS England, B&M, Premier Inn, Bury Council and Bury College.

The full range of signage from Superior Signs is as follows:

- **Outdoor Signs:** Shop front signs, post & panel signs, hoardings, A boards & pavement signs, banners & flags.
- **Indoor Signs:** Interior signs, wall & floor graphics, whiteboards & noticeboards and canvas printing.
- **Other Signs:** Acrylic signs, directional & wayfinding signs, health & safety signs, illuminated & LED signs, engraved signs and special event signage & printing.

The products Superior Signs can offer the construction industry through Signs2Safety includes:

- **Budget construction site signs:** Made in 4mm correx, signs include warning site entrance, CCTV

in operation, guard dogs, fire assembly point, no smoking, safety helmets and much more.

- **Construction Site Signs:** This includes road and site signs to ensure public and worker safety such as: no public access, road closed and caution vehicle reversing signs – 3mm PVC & 3mm composite aluminium & reflective signs
- **Safety boots:** A wide range from Himalayan trainers to safety boots
- **Hi-vis clothing:** A wide range of hi-vis jackets, vests, waistcoats, bomber jackets and much more.

“At Superior Signs, we pride ourselves on giving the same professional service whether it is a small internet sign or large external signage.”

“We design, manufacture and install high quality signage across the North West for every type of business and industry, including the manufacturing and fitting of largescale signs for shops, factories, schools, construction sites and many more and offer customisation of all signs including customer logos and brand images.”

“New signage is guaranteed to create an impact wherever it is situated and helps improve visual awareness and business. We love helping businesses thrive with the most creative signage ideas.”

“Signage on construction sites needs to adhere to Health & Safety Regulations 1996 and for this purpose; we supply all types of safety signs to the whole of the UK through our online shop – signs2safety.co.uk.”



“All our signs are made with high-quality materials and comply with the latest legislation.” explained MD Geoffrey W Buckley.

Over the last fifty years, Superior Signs has worked with a wide range of customers and takes great pride in delivering exceptional customer service. This is evident in the glowing five-star Google reviews from happy customers, “Excellent service and quality, will definitely be using again. Geoff was efficient and responsive with a request for a quick turnaround of 4 x A1 foamex boards. All done by e-mail before delivery. Thanks Geoff!”

If you’re looking for clear signage from a family-business with fifty years’ industry experience, Superior Signs offers a professional service for all businesses, small to large and across all industries, including bespoke requests.

For more information, including examples of previous projects, please see the details and website below:
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Eco Clipper offers large area mowers that help field managers minimise mowing costs while producing a professional finish. The Eco Clipper mowing system was originally developed to replace the cylinder mower in turfgrass production. The aim was to retain the cutting performance of a well-tuned cylinder mower, but not the high maintenance requirements and sensitivity to mowing conditions, such as wet grass and weeds.

The system

The smooth cutting decks with fast spinning small blades ensure a high quality of cut and a good distribution of clippings. Thanks to the electrically driven blades, the mower is very economical and quiet. The large wheels and smart mower deck linking system ensures good contour following and enables high mowing speeds.



The benefits

Users report high productivity gains and appreciate the low maintenance requirements and the ability to schedule mowing even under less favourable mowing conditions, such as early morning dew and wet autumn, which can often prevent removal of grass clippings.

The models

Municipalities and sports field and park managers have discovered the advantages of the Eco Clipper mowing system. For them, Eco Clipper now offers two versions: the 4.11m wide EC-FM4 Sport and the 3.43m wide EC-FM343. Both are positioned in front of the tractor, providing excellent visibility and comfort for the tractor driver.

The EC-FM4 Sport has four independent mowing decks, mows till 4.11m wide and folds up to 2.5m width. It only needs 50hp, but fits best to small size agricultural tractors. To meet the demand for more lightweight mowers suitable for most park tractors from 40hp upwards, the Eco Clipper FM343 has been developed. This three-part Eco Clipper front mower cuts 343cm wide and folds to a transport width of 170cm. As with the larger 411cm wide EC-FM4, electricity is provided by a PTO-powered generator behind the tractor.

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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.

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 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.

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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**Warwick Buildings Ltd
 wins Award of Excellence
 for 2024**

Warwick Buildings Ltd is a leading local supplier of high quality timber buildings, specialising in garden offices, modern garden rooms, and wooden garages. With a focus on quality craftsmanship and a commitment to using sustainable materials, Warwick Buildings is a trusted name in the industry, providing customers with versatile, aesthetically pleasing structures enhancing their outdoor spaces. Founded in 1988, at the heart of Warwick Buildings' success is its customer-centric approach. The company prides itself on delivering a personalised service, assisting customers from the initial design phase to the final installation.

E2 Media have recently unveiled their highly anticipated 2024 Awards of Excellence. Warwick Buildings Ltd, have secured the prestigious award for the second consecutive year. Their exceptional dedication to providing unparalleled customer service has set them apart.

Warwick Buildings' outdoor buildings are designed to meet the growing demand for functional workspaces within the tranquillity of your home.



These structures are crafted with precision and attention to detail, utilising high-quality timber. Whether for remote professionals or those looking for traditional office spaces, these garden offices are a perfect solution. Warwick Buildings offers a wide range of customisation options, allowing customers to create a building that matches their specific requirements. Warwick Buildings incorporates advanced insulation techniques and double-glazed windows into their garden rooms and offices, making them energy-efficient, suitable for year-round use.

So, if you're looking for a suitable outdoor office space or want to increase your living space then Warwick Buildings is the go-to choice for all your needs.

For more information, please visit:
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Bettablok's sustainable revolution in construction

Building with earth is a tradition that stretches back many years, with materials like clay, cob, mud-brick, and rammed earth forming the core of ancient architecture. A prime example is the Great Mosque of Djenne in Mali, an impressive 13th-century mud-brick structure that has earned World Heritage Site status. The thermal mass of earth materials insulates such buildings from daytime heat and retains warmth during cooler nights, showcasing simple yet ingenious engineering.

However, in recent decades, particularly in Western countries, concrete has largely replaced these natural materials. This shift has contributed significantly to carbon emissions and environmental degradation. But as the global community becomes increasingly aware of climate change's severe impact, the construction industry is under pressure to reduce its carbon footprint.

Enter Bettablok – a revolutionary product designed to address these environmental concerns.



Developed by Malcolm Carrington, a veteran with a background in forestry and historic building restoration, Bettablok offers a sustainable alternative to conventional cement and concrete. Inspired by his longstanding involvement with the East Anglia Regional Telluric Houses Association (Eartha), Carrington's innovation brings a modern twist to traditional earth building techniques.

Bettablok is crafted from a blend of natural materials such as aggregate, fibre, lime, chalk, and clay. Its advantages are numerous:

- **Sustainability:** Made from 100% natural and locally sourced materials, it boasts a minimal carbon footprint compared to traditional concrete, which is responsible for about 15% of global carbon emissions.
- **Zero waste:** The blocks can be crushed and reformed or reused, promoting a circular economy.
- **Thermal efficiency:** With high thermal mass, Bettablok helps maintain comfortable indoor temperatures, reducing the need for air conditioning and heating.
- **Moisture and fire resistance:** The material naturally regulates humidity and is non-combustible.
- **Breathability:** It absorbs and releases interior toxins and odours, enhancing indoor air quality.
- **Acoustic benefits:** It has low sound transmission levels, contributing to a quieter environment.
- **Aesthetic flexibility:** The surface can be finished with breathable paint and plaster.
- **Construction efficiency:** Bettablok blocks are easy to install, requiring no scaffolding and

allowing for faster construction with reduced labour costs.

The impact of cement production on climate change cannot be overstated – responsible for 8% of man-made carbon emissions. The U.S. government has recently committed £6 billion to decarbonising the heavy industrial sector, focusing significantly on finding low-carbon cement alternatives.

Bettablok represents a practical and eco-friendly solution in this context. As it becomes available on the market, it is poised to transform large-scale building projects by offering a sustainable, efficient, and aesthetically pleasing alternative to traditional concrete.

For more information, please see below:
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sales@bettablok.com
<https://www.bettablok.com>



Bespoke Door & Panel Manufacturing

Quality and service count: Customised doors and panelling



Pandor 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:
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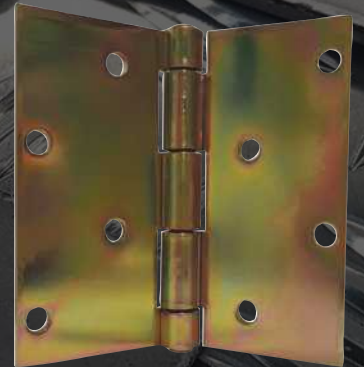
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KEDEL TRADE
ECO-FRIENDLY PLASTIC PRODUCTS

ECO PHYSICS AG develops new three-channel chemiluminescence analyser (NO/NO₂/NH₃)

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, NO₂, NO_x, NH₃ and NOX-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."

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ECO PHYSICS nCLD "Facelift" boxed solutions AL³ / nCLD 8555



Measurement of:
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- ✓ Internal data logger and touch panel PC
- ✓ Remote operation and POWER UP/DOWN
- ✓ USB, HDMI, LAN/WLAN, Bluetooth, RS-232, Analog I/O

The three-channel chemiluminescence based NOX/NH₃ analyzers of the nCLD "Facelift" box-solution analyzers detect NO, NO₂, NO_x and NH₃ at concentration ranges from 0-50ppb to 0-50ppm with a minimal detection limit from 0.4ppb. The three-channel nCLD AL3/8555 includes an internal pump and the slightly modified front panel has been equipped with an additional Power-button and a new internal PC. Additionally, all nCLD-models are capable of a remote power control, including a failsafe feature. The AL3/8555 is the ideal instrument for ambient air monitoring, either installed in racks, fixed monitoring stations or mobile laboratories. The instrument's inlet operates at ambient pressure. Calibration of the unit runs quick and automatic while all necessary data is continuously stored and readily available anywhere and at any time. According to ISO EN 14211.



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Optimising energy in electric boosting and melting systems

Like all industries, pressure to decarbonise is imminent. And glass manufacturing is no exception, with the objective to attain carbon neutrality by 2050. Not only does decarbonisation benefit wider industry and society, but when done correctly, also provides efficiency and cost benefits. In this article, Mikael Le Guern, Global Glass Business Development Manager at Eurotherm, a company acquired by industrial technology company Watlow, explains how installing power boxes close to furnace electrodes can help glassmakers improve energy efficiency and reduce costs, compared to traditional power system designs.

or cold repair and with only a few upcoming greenfield projects, the opportunities for these companies to implement carbon-reducing solutions are limited. Currently, whenever a repair is due, many glass companies are already considering their options to reduce greenhouse gas (GHG) emissions, particularly by increasing electrical boosting.

As a result of pressure to decarbonise, we are seeing more requirements to significantly increase electrical boosting for facilities all over the world. Certainly, for large glass production companies, their total CO₂ emissions are the aggregate emissions of all their plants and facilities globally.

With furnace campaigns lasting between 10 and 18 years before the next rebuild

The other movement happening in the marketplace is that all types of glass producers are looking into these issues. Years ago, the size of the furnaces and type of glass made it possible to implement small to medium size electrical boosting, on average between two and five megawatts (MW). Now, not only has the required size of electrical boosting systems grown from a few megawatts (MW) to over ten MW and



beyond, but this trend is happening across most types of glass production, including float glass furnaces.

To learn more about Eurotherm and its solutions for glass manufacturing, please visit: www.eurotherm.com

To learn more about Watlow's thermal solutions, please head to: www.watlow.com

Odour Control & Biogas Cleaning Units

Anua Clean Air: Air pollution control specialist

Anua Clean Air UK Ltd are a specialist Air Pollution Control company with expertise in the field of biological treatment of air and Biogas. Anua are established leaders in the fields of high performance, low-cost emission abatement primarily based on our Patented Biofiltration and Bio scrubbing technologies.




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During the past number of years along with its parent Company Anua Clean Air International limited and Italian Sister company Air Clean SRL we have been very active in the UK, Ireland and in overseas markets including Italy, France, the Middle East, China and the US. International Reference projects include Dual Pass Monashell Installations in Riyadh, Jeddah, Laguna

Lake in the Philippine's, Coimbatore in India, and Sindos in Greece. For our new CrumRubber technology we have supplied new installations in the Canary Islands, China, Oman and UK and Ireland. We are also currently working with Air Clean USA on the delivery of a number of new installations for the US market.

Anua Clean Air International also specialise in Equipment Health Checks and process optimisation and media replacement services. Over the past number of years we have continued to perform System Health Checks and media replacement services on the many hundreds of Worldwide Monashell Installations.

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The importance of Load Cells in Oil and Gas

The oil and gas industry relies heavily on load cells for safe and efficient operations. From offshore platforms to drilling equipment, they provide valuable data to improve operations, increase production, and ensure the safety of workers. Interface load cells are used in many facets of oil and gas, including to ensure safe lifting, enhance equipment integrity, provide accurate measurements in field operations, and even assist with optimal storage tank management.

Interface stands out by offering ruggedised, high-accuracy load cells specifically designed for the **oil and gas** sector's demanding environments. Interface helps the **energy market** with force measurement solutions specially developed for harsh conditions, with sensors that can withstand up to 30,000psi and 500 degrees Fahrenheit.

Interface Oil and Gas Applications

Load cell technology is used in various oil and gas applications, including:

Downhole and Vertical Drilling

- Dry Load Cell Replacements for Wet Load Cells
- Drill String Weight and Tension Monitoring
- Oil Recovery
- Wellbore Perforation Equipment
- Wireless Drilling Systems and Rig Management

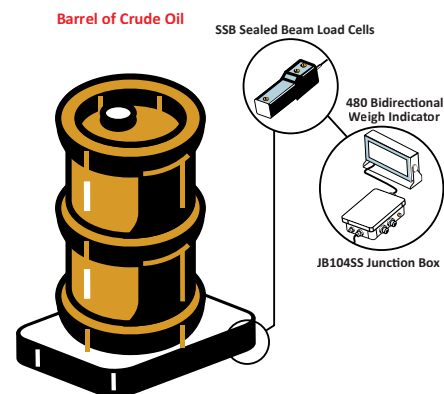
Flow Management

- Monitoring Pipeline Tension
- Pipeline Stress Monitoring
- Mooring and Riser Systems

Wellhead and Production Operations

- Tank and Silo Weighing
- Cementing Tools
- Wireline Tools
- Crane and Lifting Equipment
- Mixing and Separation Systems
- Offshore Equipment

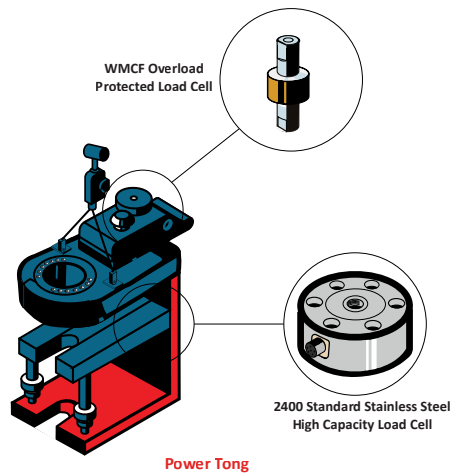
Crude Oil Barrel Weighing Solution



A weighing system is needed to measure mass amounts of crude oil. Interface's solution is to secure four **SSB Sealed Beam Load Cells** at the bottom of a metal platform. The load cells measure the force applied by the weight of the barrels of crude oil. All four SSBs are connected to a **JB1045S 4-Channel Stainless Steel Junction Box** which is connected to the **480 Bidirectional Weight Indicator** to display the accurate weight results.

Power Tong Measurement System

As with many oil and gas applications, the demand for digital or recorded traceability is ever-increasing. A force and torque measurement system is needed to ensure there is an appropriate amount of torque applied to a power tong during the tightening and loosening of shaft connections during the drilling

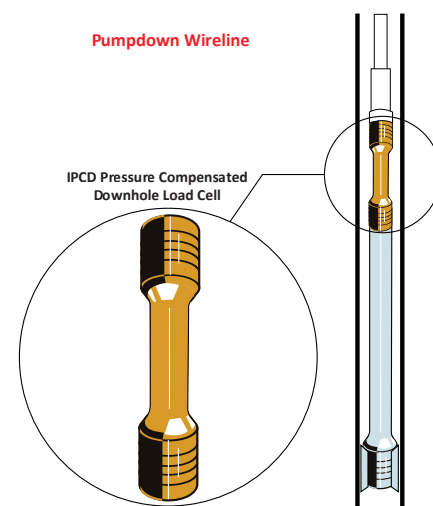


process. Interface's **WMCFP Overload Protected Sealed Stainless Steel Miniature Load Cell with Female Threads** is attached to the hydraulic actuator that controls the clamping force of the tong on the drill string, thus increasing accuracy over hydraulic measurements. The **2,400 Standard Stainless Steel High Capacity Universal Load Cell** is attached to the hydraulic actuator that controls the bottom tong's clamping force on the drill string. Interface's force sensors accurately monitor the motor of the power tong's tightening mechanism, ensuring it tightens during operation at the right amount of force. It also successfully measured the force of the hydraulic actuator controlling the tong's clamping force.

Interface prioritises customisation to meet specific client requirements. This may involve incorporating client-specific mechanical details or defining products tailor-made for existing drilling systems and production equipment. An example of customisation is Interface's **LowProfile™** series load cells, which helped an oil company improve recovery operations by providing accurate readings during an enhanced oil recovery (EOR) project. When oil is extracted from the ground, a refinement process removes sediments and other impurities. After the filtering process, the crude oil needs to be weighed before it can be redistributed.

Challenges of Downhole Force Measurement

The downhole environment presents unique challenges for load cells. Downhole temperatures can exceed the typical rating of 'high temperature' load cells. Interface offers solutions that can withstand up to 500 degrees



Fahrenheit. Downhole pressure can be extreme, making sealing a load cell difficult. Interface's solutions address this with innovative designs.

Interface's Dry Load Cell Technology

A significant contribution by Interface is their dry load cell technology. Interface has been building custom downhole load cells in the oil and gas industry for several decades. Unlike traditional 'wet' load cells that fail after a year or two due to harsh downhole environments, Interface's dry cells offer several advantages:

- **Extended lifespan:** They can last ten years or more.
- **Reduced maintenance:** Eliminates the need for frequent O-ring replacements.
- **Improved accuracy:** Provides consistent measurement feedback.

Interface's **IPCD Pressure Compensated Downhole Load Cell** is a superior solution for oil and gas. Is a prime example of this technology. Our innovative dry cell technology addresses the challenges of 'wet' load cells, which struggle with extended use in deep wells with extreme pressures, temperatures, and caustic environments. As noted in our application note, **Downhole Force Measurement**, the customer can control pumping forces on the tool string with incredible accuracy. Regulating this process ensured service success without the risk of the tool pump shutting down and avoiding a devastating and expensive fishing operation.

Each one has been customised to the customer's preferences. Interface leverages experience, engineering design, and production skills to provide a standard model solution. It should be noted that there is still an option to modify the IPCD Load Cell and customise it to adapt to customer hardware. Download the Interface technical review in our **Interface Pressure Compensated Downhole Load Cell White Paper**.

The Benefits of Interface Load Cell Solutions for Oil and Gas

By implementing Interface load cell technology, oil and gas companies can benefit from:

- **Reduced costs:** Lower maintenance requirements and extended lifespans lead to overall cost savings.
- **Improved safety:** Accurate measurements ensure safe operation and prevent equipment failure.
- **Enhanced efficiency:** Real-time data allows for informed decisions and optimises drilling operations.

Interface is a global leader in force measurement solutions, offering over 35,000 products. It is committed to continuously developing cost-effective and durable solutions. We work with engineers and oil and gas industry leads to integrate our sensor technologies into their tools, equipment, and production solutions. Oil and gas companies can ensure safe, efficient, and cost-effective operations by leveraging Interface's expertise in load cell technology. Contact Interface Application Engineers to explore options for your exact requirements.

See our **Energy Industry: Force Measurement Solutions video** here

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LAUDA wows industry at London's Biotechnology Show 2024



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With a leading product portfolio, LAUDA impressed at this year's London Biotechnology Show from 8th–9th May at Olympia London with three cutting-edge products, designed to push the technological boundaries across the biotech industry:

1) Mobifreeze M 270: The world's first ultra-low temperature chest freezer in the world is set to revolutionise biotechnology. With high-grade vacuum insulation and active temperature control from -86°C to -50°C – this chest freezer ensures the safe transportation of temperature-sensitive samples throughout the transport logistics

chain, without the need for dry ice. Designed with optimised flexibility, the freezer can be powered by lithium-ion phosphate battery and mains, with easy switchover.

2) Ultratemp Process Circulators:

Available with IP 54 standard protection, these premium process circulators are easy to use and clean, making them a product of choice across the biotech industry. Remote monitoring operation is possible through the function buttons and an LCD or controlled via PC with an integrated web server and can be uploaded to cloud-based LAUDA applications. Precision external temperature control can be activated within a range of -5°C to 60°C, with a high stability temperature of ±0.5K for regulated temperature control at all times.

3) TR600HKi for Biopharma

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+/-0.1°C process temperature control. With a flowrate of up to 30m³ per hour, water or a water/glycol mixture is all that is needed. The unit also comes with an OPC US communication interface for ease of use.

For more information on all three products, contact the sales team below:

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Sales email:

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www.lauda-technology.co.uk



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Service Sealing Solutions Ltd are the sole UK distributor of DOYMA products. Wherever services are installed through walls, ceilings or floors, penetrating water may cause damage to buildings. Lack of attention to the points of entry of pipes and cables into the building can have serious results: damp cellars, equipment damaged by water ingress and high repair costs. Service sealing systems ensure professional and perfect pipe sealing, thus presenting excellent preventative measures against structural damage. The very best in German engineering is used to seal penetration points to the wall to permanently prevent any infiltration of gases and water into the building, and the duct sealing systems are guaranteed for 25 years. Service Sealing Solutions supply the full range of products to suit all situations for power cables, communication cables, pipes and ducts, and specialising in sealing district heating pipes.



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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 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



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

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:
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Psycho Peacock embraces sustainability with new Soyang Europe materials



Large-format specialist graphics supplier **Psycho Peacock** has revealed how its use of **ST-216 R Nightstar** and **ST-601 R Starlight** fabrics from **Soyang Europe** is allowing the company to offer a more sustainable service to clients across a range of markets.

Based in Salford in Greater Manchester, Psycho Peacock has been providing specialist graphics to clients in the retail, events, museums, construction, and visitor attractions sectors for more than 40 years. This offering is expanded further by working with sister company Full Circle Exhibitions & Events, which focuses on event signage and branding knowledge.

For more than half of its life, Psycho Peacock has been working in partnership with Soyang Europe, drawing on the supplier's extensive knowledge of markets and its far-

reaching product range to create a wide variety of eye-catching applications.

Psycho Peacock recently expanded this relationship by starting to work with ST-216 R Nightstar and ST-601 R Starlight, both of which are designed to provide customers with a more sustainable offering that they can then pass on to their own clients.

ST-216 R Nightstar is a wrap-knitted blackout fabric with textured surface on its front side and black coating on the back. Mainly used for dye-sublimation printing, the product offers excellent opacity, softness, bending resistance and wrinkle-resistance, making it an effective solution for applications such as backdrops, pop-up displays and frame systems.

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Soyang Europe expands Display Solutions Portfolio with ST-2163 Nightstar Onyx

ST-2163 Nightstar Onyx is a flexible hybrid material and has been developed for use in UV, Latex and dye sublimation printers. It is ideally suited for applications such as retail backdrops, exhibitions graphics and pop-up display systems.



Soyang Europe, the leading manufacturer and distributor of digitally printable wide-format and superwide-format media and surface coverings, and – through its acquisition of Soyang Hardware – a supplier of leading edge wide and superwide-format print production hardware, is delighted to announce the launch of ST-2163 Nightstar Onyx polyester blackout display fabric.

Customers will benefit from brilliant colours and high ink fastness, while the material's high stability and soft feel make it the ideal solution for use in high-impact applications such as retail backdrops, exhibitions graphics and pop-up display systems.

A 100% warp-knitted blackout fabric, ST-2163 Nightstar Onyx is a flexible hybrid material. It has been developed for use in UV, Latex and dye sublimation printers and is available in widths of up to 5.05m. The new material features a black back that offers users full opacity, opening up its use in a range of projects.

ST-2163 Nightstar Onyx also offers users a more sustainable option than other materials available on the market as it is both PVC and phthalate-free.

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Hat-trick Award for Davies Turner Group

For the third successive year, the Davies Turner Group have been presented with an internationally-recognised award by the Royal Society for the Prevention of Accidents, RoSPA Gold Award, further solidifying this company's position as a worldwide freight and logistics partner.

Davies Turner provides pioneering direct UK weekly rail services in conjunction with their long-term partner in China, Air Sea Transport, who has years of experience in the China rail sector.

Since 2016, Davies Turner have operated China to UK rail services for full load (FCL) and groupage (LCL) shipments, assisting clients with their supply chain needs by reducing shipping times in comparison to Sea Freight. The availability of their import rail services has been vital to clients since the advent of the pandemic, where many importers witnessed shipping line ocean transit time delays, port delays and air freight became cost prohibitive for many large volume or dense cargo shipments.

With confidence and demand for China rail freight services soaring, as evidenced by the 50,000th China-Europe intermodal train embarking on its journey towards the west at the beginning of February this year, Davies Turner have introduced and support a dedicated weekly eastbound rail service for LCL cargo, having undertaken successful trials.

Established over 150 years ago and as one of the first companies in Europe to become accredited as a Full Authorised Economic



Operator, this forward-thinking company is now a bona fide international freight forwarder, with an award-winning pedigree.

The group has 15 UK branches, including a head office in Birmingham.

We caught up with Andrew Ford, Branch Manager in Rotherham, Yorkshire to find out more, "The Rotherham branch specialises in awkward and out-of-gauge shipments, shipping many vehicles ranging in sizes and type to small rail engines as well as large machinery moves around the world. Alongside this they offer standard freight forwarding – which means the Rotherham Branch can assist in almost all enquiries they receive: 'from an envelope to a large project.'"

"We have an extensive knowledge of the services that we offer within our branch, with our dedication to detail to ensure where possible shipments smoothly and clients are updated should there be any delays out-of-our-control."

"We have had a good start to this fiscal year, which was surprising with the current downturn in world trade. Our short-term plan



is to improve our office environment with some renovations and also look at team building activities that had to be suspended throughout COVID. We are also looking at more training for our staff so they can gain even more experience and knowledge to help assist our clients."

Despite most of the COVID-pandemic restrictions lifting and shipping costs starting to decrease, the world of international freight still has to contend with the challenges posed by the war in Ukraine, port strikes and a near-global recession.

Davies Turner offers a light at the end of a gloomy tunnel with its express freight rail service and its extensive European overland portfolio with direct groupage, part load and full load trailer services. Customers can choose between express transit and super-express options, in a thoroughly streamlined system.

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Now in their 20th year of trading, Solware Ltd is licenced for the sale of Air Weapons, Shotguns and Firearms.

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Stylographics sets new trends with Marc Jacobs and Soyang Europe

The large-format print and fabrication company recently used Print Floor from Soyang Europe to help create an eye-catching retail display for world famous design brand Marc Jacobs

Watford-based large-format print and specialist fabrication company **Stylographics** recently used **Print Floor** from **Soyang Europe** to produce a striking retail window display for global fashion brand Marc Jacobs.

A diversified business, **Stylographics** works with clients across a wide range of markets, producing all kinds of inspiring print applications. The company counts a number of high-profile brands amongst its customers including Costa Coffee, Charles Tyrwhitt, Netflix, Apple TV and Warner Bros.

Among these clients is Marc Jacobs, which has partnered with Stylographics on a series of projects to showcase its brand in many innovative ways. The latest collaboration was a retail window display at one of Marc Jacobs' stores.

Stylographics was tasked with creating an eye-catching display that would help draw the attention of passers-by and tempt them into the store to view some of the latest products from Marc Jacobs. The design featured a bold black and white pattern that was to stretch around the entire window frame.

With this in mind, Stylographics opted to use Print Floor, a PVC flooring material from Soyang Europe ideal for use in applications such as floor graphics and



retail displays. Stylographics used its Durst P10 250HS UV inkjet printer to print the design onto the material.

"Having used Print Floor from Soyang Europe for a number of years and on a whole range of projects, we knew straight away that this application would require the same solution," said Siobhan Storey, Marketing Manager, at Stylographics.

"What stands out for us and what we like most about Print Floor is that it is a very hard-wearing and reliable



Written by **Ella Faulkner, Internal Sales**

product; we rely on it time and time again for all sorts of applications."

Stylographics is a long-term customer of Soyang Europe, with the companies having worked together for more than 10 years. Speaking about this relationship, Siobhan said that the service from Soyang Europe goes much further than simply supplying and delivering materials.

"Soyang Europe are always on hand for advice and technical back up when required," Siobhan said. "As Stylographics is an innovative company, we are impressed by the range of materials they stock and we are always keen to see the new products that they bring to the market."

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