

INDUSTRIAL

SOLUTIONS UK

ISSUE 668 • September 2023

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Oliver Valves wins order for Major Green Project

They have won a significant order to supply a large number of Metal Seated Double Block and Bleed Ball valves to a Major Green Field onshore project located in the Kingdom of Saudi Arabia
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olivervalves

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Hello & Welcome to Issue 668 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 Oliver Valves and UNISIG.

Firstly, we would like to focus on the accomplishments Oliver Valves who this month features on page 3!

Secondly, we are featuring UNISIG with the 'Company of the Year' profile following their impressive performance over the years. For more information, turn to page 13.

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

Contacts

Editorial
Ian Hayward, Editor
T 0121 241 8788
info@solutionspublishing.co.uk

Accounts
Accounts Manager
T 0121 681 0935
accounts@solutionspublishing.co.uk

Production
Production Manager
T 0121 241 8788
production@solutionspublishing.co.uk

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

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Oliver Valves wins order for Major Green Field Project

Oliver Valves has won a significant order to supply a large number of Metal Seated Double Block and Bleed Ball valves to a Major Green Field onshore project located in the Kingdom of Saudi Arabia.

Territory Manager for the Middle East, Haridas Embanath says, "Winning the order was the result

of strong relationships with our distributor network and end users in the region, but it's really down to the efforts of our engineering and support team that provided the perfect valve solution to meet difficult cost restraints."

Value engineering is second-nature to Oliver's. By working closely with customers and engineering

modelling scenarios using various combinations of materials and designs can help to find the best valve solutions possible. Value engineering on this project has resulted in valves manufactured with Carbon Steel body and trim, and Inconel Weld Overlay. The estimated additional saving for the customer is around 20%-30%.

For more information on how Oliver Valves can supply your project with the very best valve solutions, contact Oliver Valves on: +44 (0)1565 632636, email: sales@valves.co.uk or visit: www.valves.co.uk



Pictured: Haridas Embanath



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Oliver Valves chosen to supply world's single largest Offshore Wind Farm

Oliver Valves are to supply a range of Modular and Monoflange double block and bleed valves to the Hornsea 3 Wind Farm project located in the UK sector of the North Sea. Hornsea 3 has two platforms, link 1 and link 2. These are unmanned and operated from shore with access to carry out maintenance done by vessel or helicopter.

These High Voltage Direct Current (HVDC) offshore converter platforms have a combined capacity to produce 2.852GW, enough to power the average daily needs of over 3 million UK homes. This makes it the single largest offshore wind project in the world.

Manufactured from 316 Stainless Steel, Super

Duplex, and Titanium materials, valves are to be used in cooling systems and firewater applications. Regional Manager for Scotland and Scandinavia, Colin Wood, says, "We're extremely proud as a business to supply valves for operation on large-scale green energy projects, and it's particularly exciting to be working with a UK-based green project, such as Hornsea 3."

We're committed to supporting a Net Zero Emission future, and have recently launched a



range of zero seat leakage valves for hydrogen applications. Our investment in designing new and innovative valve technologies is having an enormous impact and is hugely significant – even a game changer!"

For more information on how Oliver Valves can support your green energy project with the very best valve solutions, contact us on: +44 (0)1565 632636, email: sales@valves.co.uk or visit: www.valves.co.uk

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Providing fencing and barrier solutions for the nation



The Coronation of King Charles III was the highlight of this year's social calendar for many British and Commonwealth people around the world, and Red Herring Event Services is the first company that has served the previous Monarch Queen Elizabeth II and King Richard III of England with crowd barriers.

This highly successful company was first established in December 2006, by Charles Herring who has an extensive trade background in scaffolding. Beginning with event services for Leicester City Council in 1989, the company has snowballed: diversifying into other event areas.

Red Herring Event Services has provided fencing solutions for a range of events, from prestigious, sporting occasions like MSV Donington Park, to high-profile music events such as the X-Factor and Live Nation (Music) UK.

With health & safety being a prime concern at large-scale public events: the company provides industry-leading fencing and barrier solutions that cover a variety of perimeter measurements. The extensive product range includes: Crowd Control Barriers 2.3m, Steel Shield Hoarding 2.1m, Temporary Fencing 3.5m, and Police Met Barriers 1.5m.

Charles Herring and his trusted team can provide fencing and barrier solutions all over the country, seven days a week, offering a full turnkey solution.

To enquire about fencing or barriers today, see the details below:
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ECO PHYSICS AG develops new three-channel chemiluminescence analyser (NO/NO₂/NH₃)

In this issue of Industrial Solutions, we are pleased to feature ECO PHYSICS AG as our Industrial Emission Monitoring and Gas Manufacturing Control Company of the Year.

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 NO_x-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-standardized 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


AL, AL², EL S, EL, EL²



Measurement of: NO • NO₂ • NO_x

The one- and two-channel chemiluminescence based NO_x analyzers of the nCLD "Facelift" box-solution analyzers detect NO, NO₂ and NO_x at concentrations ranging from 5ppm to 5,000ppm with minimal detection limits averaging from 0.4ppb to 0.5ppm. They hereby focus on two main application areas, Ambient Air (AL, <50ppm) and Emission/Process (EL, <500ppm; EL S <5,000ppm) monitoring. The one-channel nCLD AL, EL and EL S feature an external pump, while the two-channel nCLD AL² and EL² include an internal pump. The nCLD "Facelift" boxed solutions consist of five, fixed and pre-configured analyzers. The nCLD AL (Ambient Level) and EL S/EL include a standard NO/NO_x measurement, with an optional NO₂ add-on, while AL² and EL² include, due to the two-channel set-up, a standard NO₂ detection. The slightly modified front panel has been equipped with an additional Power-button and a new internal PC. Additionally, are all nCLD-models capable of a remote power down/up including a failsafe feature.

- Compact analyzer with external or integrated pump
- "Toggle mode" NO₂-feature for One-Channel instruments
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Bespoke Odour & Air Pollution Control Systems



ERG (Plastic Fabrication) Ltd

At ERG (Plastic Fabrication) Ltd, we specialise in the high quality custom fabrication of process industry vessels and associated components from GRP and composite plastic materials.

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- HDPE – High-density polyethylene
- GRP – Glass Reinforced Plastic

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ERG (Air Pollution Control) Ltd cleans up

The ERG group has over 40 years' experience and operates through three divisions. The powerhouse of the group is the first of these, ERG (Air Pollution Control) Ltd. This division has highly qualified and experienced teams of chemical, mechanical and electrical engineers who, together with design engineers, project managers and procurement professionals, design and

supply bespoke gas scrubbing systems and odour control plants to meet their clients' requirements.

ERG solves the full spectrum of gas cleaning challenges facing its clients; whether it is a requirement to remove foul odours from air under ambient conditions prior to release into the atmosphere, right up to scrubbing streams of process gasses at

high temperatures, high pressures, or in explosive environments to remove toxic or aggressive pollutants. The level of technical sophistication and bespoke engineering content is each project is specific to the clients' needs, with industrial applications typically demanding the highest processing technology.

The commercial driver leading clients to invest in

ERG's systems might be a pressing requirement to comply with government regulations or with the emission limits set in an operating licence issued by an appropriate agency. For other clients, ERG's expertise is often sought to clean up gas streams that form an integral part of the client's production process. For example, in the green energy sector ERG's systems purify biogas or syngas that they have generated, so that the client's process runs more efficiently with lower pollution levels. In some cases, ERG's gas cleaning systems can even generate by-products, which become value added saleable side-streams.

Based in West Sussex, ERG has grown its business strongly over the years to build up a global sales network and client base.

An office in Jordan services ERG's business throughout the Middle East region, and is fully staffed with design engineers, project managers and local sales managers. A satellite sales office in Dubai completes the Middle East structure.

ERG (Plastic Fabrication) Ltd is the manufacturing division for the group and specialises in the high-quality custom fabrication of tanks, vessels, pipework and ducting from GRP and composite plastic materials, and which are used in the systems designed by ERG (Air Pollution Control). ERG (Plastic Fabrication) Ltd also welcomes



commissions direct from 3rd party customers. It has a vast arsenal of services to offer clients, and has specialist experience in manufacturing using a wide range of plastic materials including PVC, CPVC, Polypropylene, PVDF, and other specialty plastics for harsh environments such as ECTFE.

Finally, the group includes ERG APC Maintenance Ltd. This division's mission is to provide servicing and maintenance support to customers throughout the lifetime of their air pollution control system. Service can be provided under contract to include a routine preventative maintenance servicing schedule designed to maintain system performance. Alternatively, maintenance can be provided on an ad hoc basis as and when required.

All three-company divisions are now based in superb new purpose-built office and factory facilities in West Sussex, which were completed in 2021. Having all divisions on the same site significantly enhances working efficiency, design quality, production quality, and production capacity.

For more information, please contact ERG (Air Pollution Control) Ltd at:
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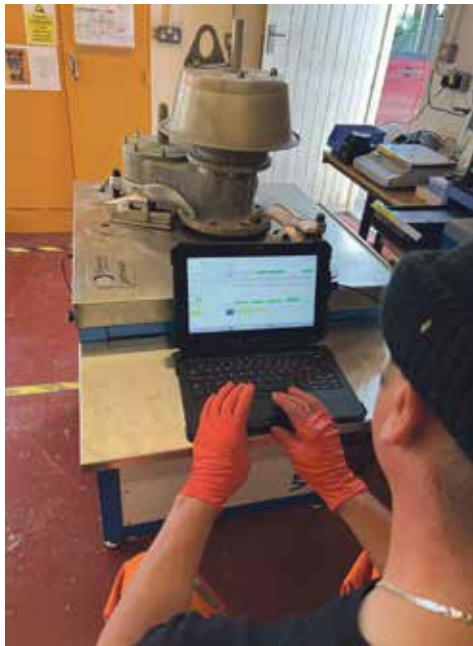
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A best available technique that is revolutionising breather Valve Testing

Assentech Sales Limited has introduced Vent-Less technology, a significant advancement for the tank storage industry. This technology is designed to reduce or eliminate harmful emissions by rigorously testing tank breather valves against the API2000 test criteria.

Vent-Less technology identifies non-compliant valves, allowing operators to service, repair, or replace these units. This not only ensures



compliance with environmental regulations but also enhances operational safety by reducing the risk of fire or explosion.

A key feature of Vent-Less technology is its ability to measure, monitor, and quantify emissions. This data-driven approach enables users to actively reduce emissions and provides valuable data for Environmental, Social, and Governance (ESG) and environmental reporting.

In addition to its environmental and safety benefits, Vent-Less technology offers financial advantages. By preventing product leakage, it reduces costs associated with product loss and shields businesses from potential environmental, litigation, and criminal fines and penalties.

The testing of breather valves, both when new and during their service life, is crucial. The testing equipment should meet the following criteria as per API2000 Section 5.4:


- 1. Pressure Approach:** The equipment should accurately measure and control pressure, provide clear indications of applied pressure, and test all tolerances.
- 2. Flow Approach:** The equipment should accurately measure and control flow rates, considering ambient temperature and barometric pressure.
- 3. Test Equipment Capability:** The instrumentation should meet accuracy standards, with calibration certification from accredited laboratories.
- 4. Traceability and Testing:** Test certification should be traceable to the individual breather valve, testing both pressure and vacuum ports, and recording all test data.
- 5. Environmental Reporting:** The leakage rate and emission quantification should be included in reporting metrics to support net zero, ESG and CSR initiatives.
- 6. Accuracy and Reliability:** Automated test equipment is crucial to avoid misinterpretation of results, allowing test repeatability, solo operation and rapid testing. This also provides vital and irrefutable evidence to defend litigation claims, criminal prosecution and environmental breaches.

By adhering to these recommendations, operators can enhance testing accuracy, contribute to environmental reporting, and demonstrate their duty of care to their workforce and commitment to safety and sustainability standards.



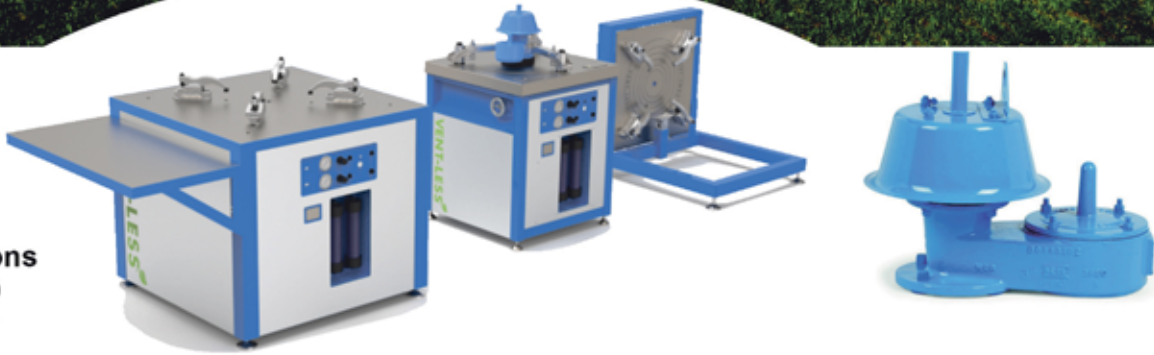
Vent-Less aided a waste-to-energy facility to reduce its methane emissions from the equivalent of 200 double decker buses to just 0.2 of a bus. The leak rate dropped from 90cfh to 0.08m³/hour, cutting the per valve annual environmental impact cost from £62,000 to £57. This data was critical in defending against regulatory violations. Assentech also offers a free online methane leakage calculator to help manage emissions.

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A Vital Tool to Evidence the Reduction in Fugitive Emissions for ESG and ISO 14001 Reporting

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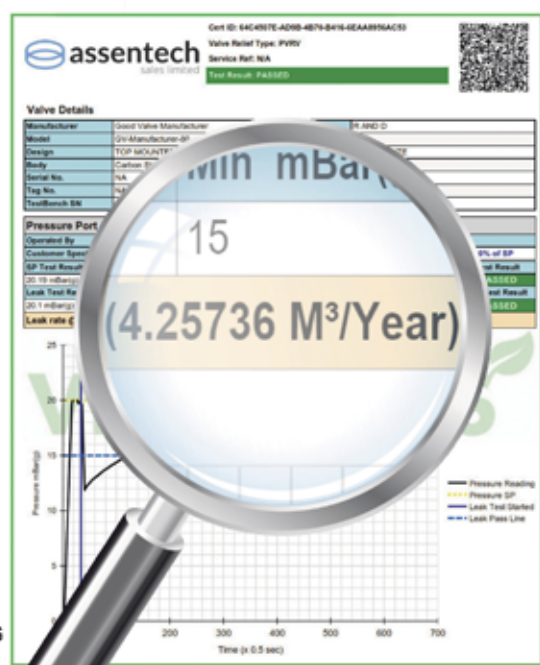


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SeCorrPhon AC 200: The right all-in-one device for prelocation, pinpointing and correlation

The SeCorrPhon AC 200 combines the characteristics of a correlator with acoustic water leak detection. This makes it an all-in-one device for leak detection, which brings together the three important functions of prelocation, pinpointing and correlation in one single, functional system. Users can react to any location scenario, even in the most challenging of conditions. Switching between the different functions or processes is simple and fast.

The SeCorrPhon AC 200 makes structure-borne and ground-borne noises caused by leaks from water pipes

audible to the human ear. The frequency spectrum is traced and made visible on the device, and the current acoustic intensity is shown as both a graph and numeric readout. The user can also see the pre-calculated volume settings and the current frequency analysis of the device on the display at all times.

To then carry out the pinpointing of the leak, the user uses the TS 200 carrying rod and BM 200 (for paved surfaces) or BM 230 (for unpaved surfaces) ground microphone on the section found during the preliminary detection stage. The SeCorrPhon AC 200 transmits the acoustic

signals and shows the intensity as a graph on the screen, pinpointing the leak with sufficient accuracy to allow confident excavation.

The acoustic features of the piezo microphone are outstanding: even the faintest of leaks or leaks occurring in noisy environments can be identified and detected. At the touch of a button, the SeCorrPhon AC 200 will apply tailored filters to the current noises and will automatically select the appropriate frequency ranges. Filter limits can also be adjusted to accentuate the leak noise and to permit improved comparability between recordings (e.g.

for use in databases or teaching/presentation purposes).

The SeCorrPhon AC 200 is ideal for use for leak detection across all sections, materials, diameters and lengths of pipelines. Numerous additional functions are also available for complex location scenarios – whatever your leak detection requirements, this system will fulfil all of them.



Contact
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Portable detection, warning and measurement

The portable gas detection and measurement devices in the EX-TEC® PM 5XX series will make the work of gas fitters, maintenance crews and other specialist staff much simpler. They will help pinpoint leaks in freely accessible gas pipelines, estimate the risk of explosion and ascertain whether levels of toxic gases fall within occupational exposure limits (OELs).



Ergonomics that make work easier

All models in the EX-TEC® PM 5XX series are accredited as gas detectors and approved for use in so-called 'Ex' zones. Their high IP65 enclosure rating ensures safe operation even under adverse conditions.

Thanks to their non-slip housing with a rubber lining, the devices are easy to hold. Their high-contrast display is razor-sharp and is easy to read even in sunlight. All of the device's functions can be launched easily from its simple 4-button keypad (two arrow keys, menu key, enter key). The separate on/off button does not have any additional functions.

Just the device for every application

The fully featured version of the EX-TEC® PM 5XX gas detection and measurement device can detect up to five different gases. Thanks to its modular design, the user can tailor the device perfectly according to their needs.

For the construction industry, the EX-TEC® PM 580 displays the carbon monoxide concentration in the ambient air and triggers an acoustic and optical alarm in case of high values. Carbon monoxide is toxic and can be released when combustion devices such as boilers have an insufficient air supply. The gas is poisonous to humans.

Convincing features

All of the models in the EX-TEC® PM 5XX series are very user-friendly and suitable for any application thanks to their simple 4-button navigation and clear menu structure. Device inspection is supported intelligently by the device software and the illuminated 2.5" display can be read in any environment. The non-slip housing is easy to carry and, thanks to its single-hand operation, can be used by both right-handed and left-handed users. Should the hydrophobic filter come into contact with water, it protects the device and triggers the pump alarm. Filter contamination can be identified quickly and easily on the transparent closure in front of the easy-to-replace dust filter.

A short sensor and belt clip make use of the device even more comfortable, and are included as standard. Other sensors are available for users to customise the device for their exact requirements.

Running on AA batteries or rechargeable batteries, the device operates for a total of between 8–16 hours (depending on model and application).

Test equipment SPE AutoFlow simplifies necessary device inspection and reduces the amount of test gas required. The ATS 503/ATS 501 test station ensures precise measurement values automatically and reliably. Both are available as accessories. Powerful software called GasCom enables storage of the recorded measurement values and is used to configure the entire device.

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Bringing technologies to market that improve packaging automation

Weber Packaging Solutions provides high-quality labelling and coding solutions for all industry sectors of the UK market, for any surface and shape imaginable. The company also supplies Barcode software and operating supplies such as labels, colour ribbons or ink that enhance the product range, and also provides exceptional customer

support services with suitable financing and customer training.

Weber Packaging Solutions is a leading innovator in the design, engineering, manufacture and supply of high-performance pressure-sensitive labels, labelling systems and continuous ink jet systems. For over eighty years, it has been bringing innovative products to

customers and helping them to solve their labelling and coding problems.

At its 5,000 square-metre manufacturing and customer service facility, its knowledgeable staff are capable of addressing all labelling and coding requirements. The countrywide network of sales, customer service and technical support specialists, in addition to its constant commitment to quality, has maintained the company's position as a reputable leader in the industry.

Weber Packaging Solutions aims to work as partners with each of its customers, to establish an understanding of each application and how it can be best realised to improve your business. The efficient, high-speed label presses and extensive library of dies means that it has the capability and diversity to assemble a complete solution for your labelling application.

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With over 34 years of experience supplying the machine knives industry. CAMB Machine Knives was established in the UK in 1989 and aimed to provide consistently high quality knives and service to a broad range of industry sectors. Based on these guiding principals, CAMB Machine Knives has flourished and grown throughout Europe, USA in 25 countries worldwide establishing a reputation for high quality products and service.

CAMB MACHINE KNIVES INTERNATIONAL REACH

CAMB Knives International really does have an international reach with a network of exporters and carriers - with offices both in the UK along with agents in Spain, Netherlands, Italy, Germany, South Africa and many more so you'll never be far away from a CAMB Knives representative.

KNIVES FOR INDUSTRY - WE'LL SUPPLY IT

Our range includes many types of blades, but not limited to:

- | | | |
|--------------------|-------------------|----------------|
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CAMB MACHINE KNIVES INTERNATIONAL LTD

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Gromtec Europe: The SIMONBOX

Why can you never find a power socket where you require one? The SIMONBOX is an IP66 rated (Weatherproof) single socket floor outlet, designed for installation in hard floor and patio areas, which have an occasional power requirement. When closed and not in use the unit achieves its IP66 rating. When open and in use, it is IP20 rated. The SIMONBOX is installed in a wide range of installations including Tennis and Football Stadiums, Airports, Car Showrooms, Department Stores and John & Janes back garden! No more trailing cables

and trip hazards, the SIMONBOX delivers power to where it is required. Available in either a stainless steel or brass finish the top section is available in a range of socket options. There are 2 back box options for screed or raised floor installation, such as decking.

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



**Simonbox IP66
Waterproof Floor Outlet**

Gromtec
europe Ltd.

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from your
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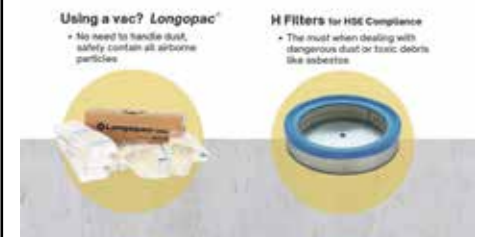
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showrooms, pop
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Available in two finishes

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Every breath you take



In the construction industry, numerous health and safety hazards present and challenge us with each job. As leading contractors in surface preparation committed to best practice, the expert teams at The Preparation Group have a keen focus on one specific hazard to ensure every breath you take on-site is a safe one: dust.

If not controlled, dust presents a major hazard to users and operators of machinery, to trades in the local vicinity and the general public.

With our wealth of knowledge, over 30 years' professional experience, and fleet of efficient, innovative machines; The Preparation Group offers dust extraction, air purifying and filtration solutions that will contain toxic and hazardous dust, debris and/or airborne particles on every project – from 5m² to 50,000m².

The best tools for the job:

We recognise that selecting the best equipment can seem like a challenge. Our expert teams are on hand to advise and guide you to select the most effective equipment to make sure that potentially harmful dust can be dispersed, purified, eliminated and/or contained correctly throughout the duration of your project.

Harnessing smart technology, and maximising suction power, our high-performance vacuums and filtration units can be matched to all types and models of equipment or tools, from large plant to hand tools, and efficiently defend against exposure to harmful dust.

Our top choice:

Utilising the recommended, innovative, safe bagging system Longopac, The Preparation Group's 202DSL Dust Extractor gives you the confidence that all airborne particles will be safely contained; with no need to handle any dust.

Dust settles... we don't:

The Preparation Group is always improving its fleet of innovative, effective equipment, growing our knowledge and experience to ensure you can trust us to guide and advise you to deal with dust safely, diligently and effectively – no matter the project.

**Contact our expert team
today and start tackling dust
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Over 25 years of engineering excellence

GLW Engineering was first established in 1992 as Joe Bloggs Engineering by Geoff White and his business partner. After they parted ways, Geoff and his wife continued running the business, which became known as GLW Engineering in 1997. Previously based in Wisbech for 14 years, they are currently based in March, East Anglia, where they have now resided for six years. The company prides itself on being a construction industry specialist, celebrating over 25 years of business and extensive engineering experience and expertise.

Operating in an extensive range of areas, GLW Engineering can provide staircases, handrails, platform, structural steelwork, shot blasting, sand blasting, and soda blasting, with the recent addition of powder coating to their comprehensive array of services; they are now able to powder coat



aluminium, mild steel, galvanised steel, and stainless steel. What's more, GLW Engineering can consult with their clients regarding bespoke requirements, creating one off solutions which are tailored to a customer's needs.

"Our clients range from single self-builders, larger companies, and contractors," said Geoff White, Managing Director. "We are a well-established company, and I am delighted to say we offer flexibility, time efficiency and the ability to provide competitive prices that are suitable for all clients. We are also proud to say that we have completed many projects and have gained a trustworthy reputation with all of our previous clients and customers. Some of these previous projects include metal railings, canopies, steel staircases, a bicycle park, silos and bins, steel gates, grilles, trolleys, benches, steel building framework, handrails, and balustrades, all of which can be accessed on the portfolio section of our website. We offer custom build steel fabrications, and offer a fantastic design service working to clients' specifications.

"Customer service is at the heart of the company," said Geoff, "Which is why we offer many bespoke products and services. We are proud to say that we use 3D CAD design facilities and have experts in all areas of our work. GLW Engineering specialises in custom build objects in mild steel, aluminium and stainless steel, which are built to an excellent and very high standard in our modernised workshop area. The company has many years of experience in the design, manufacture and installation of fabrications, and our staff are trained to the core in their specialised sectors, as well as giving friendly, efficient and professional services to all clients."

One of the company's most highly sought after services is shot blasting, which prepares steel work for a protective coating to be applied. "It is best described as preparing the surface of a part for coating by removing surface contaminants, which creates a surface profile for increased coating adhesion," explained Geoff.

Their soda blasting technology is suitable for cleaning timber, wood, oak beams, oak floors, doors, stairs and bannisters, cars, boat hulls, masonry, food processing equipment, and structural steel. It will efficiently remove and clean multi-layered surfaces right down to the base, eliminating the need for toxic chemicals, scraping, sanding, or abrasive blasting. Soda blasting is safe to use on metal, fibreglass, glass, chrome, rubber, and trim, and can degrease and remove paint without damaging or distorting metal.

We had the pleasure of speaking to Geoff about what makes GLW Engineering stand out from the competition. "We are a family-run business, offering quality as well as quantity. We are always proud of what we do and have a passion to continue doing it



well into the future. Our main goal is to maintain our high quality services and to strive for longevity.

"A key advantage of GLW Engineering is the fact that we don't specialise in one thing, meaning we are always busy. We can offer engineering excellence in a large range of areas while consistently focusing on quality and a passion for what we do. In our eyes, the customer always has to come first, and so our service is second to none." Certainly, it seems that the only way is up for GLW Engineering. After moving to new workshops six years ago to accommodate their growing trade, the company is now running out of space and looking to expand again due to an ever-increasing customer base. If you would like to find out more information on GLW Engineering's full range of services, head to their website where free quotes are available upon request. Alternatively, you can contact the company using the details below.

Contact
T +44 (0)1945 464637
info@glwengineering.co.uk
www.glwengineering.co.uk

GLW Engineering & Construction Ltd



EXPERTS IN STEEL FABRICATION

GLW Engineering has many years of experience in the design, manufacture and installation of their fabrications. All our staff are experts in their field, trained to the highest standards offering a friendly, efficient and professional service, each and every time.

We specialise in custom build objects in metal, built to a very high standard in our modern workshop. We use 3D CAD design facilities and employ experts in all areas of our work.

We are a customer focused business that offers flexibility, timely completion of work and the ability to create almost anything our clients want at competitive prices.

Fabrication

Powder Coating

Shot Blasting

Steel Framework

Soda Blasting

Interclamp

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BUILDING UPDATE

ISSUE: 668 September | www.solutionspublishing.co.uk

Environmentally friendly plastic lumber

At Building Update, we are proud to announce that we have selected Kedel as the recipient of our Commitment to Excellence Award for its ongoing efforts in producing eco-friendly plastic products for a more sustainable future.

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

Established by three brothers, Kieran, Dermot and Lewis Walch, Kedel is based in Burnley and supplies nationwide. We spoke to Dermot who explained what commitment to excellence means to them and how they feel they achieve it. "Commitment to excellence is an attitude towards work. You're only as good as your weakest link, so we try to give our staff an autonomous responsibility around servicing our customers and through this we are achieving service excellence. Because of this, people can make quicker decisions and our customers end up 100% satisfied much quicker. Eco-Friendly Plastic



is what we do. Not many people believe plastic can be green but it can. We manufacture plastic wood made from waste polystyrene, and are also suppliers of many other types of recycled plastic profiles from other manufacturers, which allows our customers to keep their carbon footprint down. We maintain excellence throughout our business through our sustainable products, sustainable supply chain and sustainable manufacturing policy."

Winners of the Feefo Trusted Service Award, Kedel's range of recycled plastic lumber reflects the future of the construction industry. From plastic fencing pales and edging board pegs to round posts, boards and planks, tongue & groove planks, decking, and so much more, Kedel's extensive product range comes with a number of benefits. Of course, the largest advantage of plastic lumber in general is that it does not rot, absorb water and is highly resistant to damage. This much more versatile material means it has a life longevity to be placed in all weathers and climates making it a perfect material for use in construction, leisure, education, gardens and any water applications.

Some could claim that plastic wood is bad for the environment, however, Kedel would argue that yes, initially the cost of plastic wood may be higher but the



outcome is that you have a product that will last a lifetime due to its extended longevity and zero maintenance properties. To add to this, Kedel only uses recycled plastic that would otherwise go to landfill, therefore, its contribution towards a circular economy is something to be highly commended.

Moving forward, Dermot explained what the future holds for the company. "We are about to increase the working hours of our extrusion plant to be operating 24 hours a day 5 days a week which will double our production time, and to support this we are recruiting more extruder operators. In the future, we plan to build a network of resellers around the UK, as the current cost of transport is at an all-time high so we are looking at ways around this for better business practice and to allow for an eco-friendlier way of working."

In closing, we asked Dermot how he felt receiving our award, he responded, "We are thrilled. It shows we are doing all the right things and going in the right direction and we will endeavour to live up to it."

For more information, please see below:
T 01282 861325
www.kedel.co.uk



Vandecasteele
see them on.....VI-VII



Bartels & Vedder
see them on.....VIII



Swifix
see them on.....IX



LS Products
see them on.....XI



Tuff Water Proofing
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Industry-leading solutions for EWI

SWIFIX is a multi-award-winning company that designs state-of-the-art solutions for securing external furniture through External Wall Insulations (EWI). Established in 2016, the range has been increasingly extended, including a recent, winning design partnership with SKY telecommunications for a new product for securing cables and small pipework.



Here at Building Update, we have been so impressed with SWIFIX, that we have previously awarded it with our External Wall Insulation Company of the Month and coveted Product Innovation Award, for its outstanding industry-leading services. Other prestigious accolades include: The INCA Innovation Award Winner in 2021, and has also been recognised as industry-leading by the wider building & construction industry and energy sector and has won a whole host of awards: The E2 Media Award of Excellence, Award for Innovation from Solutions Publishing and Best Practice Construction Award from Building & Construction Review. The company has also been named in 2023 as a finalist in the, Offsite Awards, Energy Efficiency Awards, INCA Awards and shortlisted in the Oscars of construction: The National Building & Construction Awards.

The Insulated Render and Cladding Association (INCA) is familiar to many in the industry, as the recognised trade association for the EWI industry across the UK. Awards are primarily reserved for exceptional work in the industry.

SWIFIX brings a unique design approach, offering a fresh way of looking at securing external furniture through EWI. Timber pattresses had always traditionally been the preferred manner for securing the fixing of satellite dishes through to utility boxes upon reinstatement. That was until SWIFIX introduced its genius, design range and became a heavyweight opponent. The Exeter-based company is now part of one of the fastest growing areas across the UK construction industry.



We spoke to Director and Founder extraordinaire: Paul Brown to find out more about this multiple-award winning company, "Our unique design approach has brought robust solutions to market, for securing external furniture through EWI. These include: satellite dishes, rainwater goods, canopies, light alarms, signage, cables, pretty much any item that needs reinstatement."

"We work with a broad range of loyal and new customers from Architects, Local Authorities (LA's) to major contractors and system designers providing surefire solutions for securing external wall furniture, through insulation and cladding, across a range of properties, including retrofit, new build, and the off-site modular sectors."

"SWIFIX are highly recommended by many system designers as a product of choice, due to the fact that by using the solution and the way in which they are installed, they protect warranties and guarantees for the systems installed."

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

From a quick glance, the innovative products look effortlessly simple in design but as we know from History, even the simplest design takes blood, sweat and tears. The design was years in the making, including vigorous testing across wind loadings, shear and load testing and the crucial element of thermal loss and heat transfer., until the finished design was completed.

The finished range offers industry-leading, watertight solutions to the devastating impact of water ingress. With its versatile design, it is compatible with many different formats and can hold higher weights.

The cherry on top is the eco-efficient characteristics, made from partially-recycled plastics, with all parts fully recyclable. The packaging is naturally recyclable too, making this a desirable product range, as part of the circular economy.

We're looking forward to seeing which awards SWIFIX wins next!

For more information, please see below:
T 01884 560477
info@swifix.co.uk
www.swifix.co.uk

High-capacity mowing systems

In this issue of Building Update, we are pleased to announce that we have selected LS Products BV as the recipient of our Product Innovation Award.

As a response to the increasing market demand for an upgrade to the 15-year-old electrically driven rotary mowers, the company started working on a newer, more improved version. Combining his years of experience and expertise, Syb Leijenaar – LS Products BV owner and Eco Clipper® inventor developed a new line of electric mowers that graced the market in 2018, and this was when the Eco Clipper® was born.

Built from experience, the Eco Clipper® Mowing System has evolved from the mowing system that was originally developed in the nineties on the turfgrass farm of the Leijenaar family in the Netherlands. Since the first electric mower product launch in 2002 to the latest Eco Clipper® range, LS Products BV has developed an extensive portfolio of machinery and equipment that has grown rapidly and been revolutionary to the turfgrass industry.

"Eco Clipper® is a range of large area mowers with a high productivity that help field managers to minimise their mowing costs, while producing a professional cut. Our mowers are electrically driven and use a special mowing deck design with small mowing blades. The mowing decks have good contour following capabilities and disperse clippings well, even in wet grass. This means we have a few important advantages over other mowers. These include delivering the highest mowing speed possible thus producing a higher productivity, they are quieter and more fuel efficient because of the small blades and electric drive, and they are more versatile to schedule because they can deal with wet grass and any other adverse weather conditions," said Syb.

The Eco Clipper® Mowing System offers many advantages over traditional cylinder and rotary mowers. Because it consists of an independently suspended 106cm wide deck section, it is cleverly linked together in larger, flexible contour following mowing decks. The entire design and development of the Eco Clipper® Mowing System delivers a clean cut, even clippings dispersion and excellent



following of the ground contours with minimal soil compaction.

The system also caters for bespoke requirements so customers can attach the decks to different frames, whether it be Carried or Towed. Offering three options, the Front Mower consists of a single deck with 2-6 sections, a Towed Mower consists of three separate decks of 10-14 sections wide, and a Carried Rear Mower is combined with a Front Mower and consists of 10-14 sections wide.



"If you compare the Eco Clipper with other rotary mowers, you'll see that the main difference is the greater clipping dispersion of the Eco Clipper. Furthermore the mowing speed of the Eco Clipper usually is a lot higher than the roller mowers and the Eco Clipper mowers are much easier to handle because of the lighter weight and the front mounting that provides a good view on the mower. Another development for mowing sports fields is the use of robots. The idea is to save on labour and costs. In practice the mowing costs with the small mowing robots only go up, because they require a lot of unplanned attention to keep them running. As an alternative, customers should know that they can cut the costs in half by mowing with the Eco Clipper FM4 sport," added Syb.

Municipalities, sports field and park managers have taken delight in the advantages that the Eco Clipper FM4 Sport brings. The EC-FM4 Sport is a 4.11 m wide mower that has four independent cutting decks. The forward position provides excellent visibility and comfort for the tractor operator. Due to the electrically driven blades, the mower is very economical and quiet. The low noise is not only more comfortable for the operator, but also a delight for the neighbours. The large wheels and clever deck linking system ensure good contour following and enable high mowing speeds.

Launching next year, LS Products will be bringing out a new large autonomous mower based on the Eco Clipper. Syb explains further, "In 2024, we will launch a 3 and a 5m wide mowing robot based on the Eco Clipper mowing system. This autonomous mower is aimed for the turfgrass industry to further reduce the mowing costs. We found out that also robots need quite a high capacity to be able to beat the mowing costs of our larger Eco Clipper models. Therefore the new machines will give a mowing width of 513cm and mowing speed of close to 8mph for the largest model."

For more information, please see below:
T +31 (0)6 46 75 35 60
info@ecoclipper.com
www.ecoclipper.com

Varnish

The Home of Le Tonkinois Varnish UK

B& D Murkin are a small family run business based in Maidenhead. Providing varnish and sander products, they are the sole importers of Le Tonkinois Varnish and the Flexidisc Sander.



They have been importing Le Tonkinois Varnish and the Flexidisc sander for almost 40 years.

They demonstrate and sell these products on various shows throughout the UK and operate a first class mail order service.

Le Tonkinois Varnish is a traditional oil based varnish, manufactured using a 200 year old Chinese recipe. It contains Linseed oil, Tung oil & natural resins. No solvents or water therefore it is environmentally friendly and is a pleasure to work with, no nasty smells and no brush marks.

Le Tonkinois Varnish is 100% waterproof and does not crack or flake off, even on oily woods like Teak and Iroko. It also withstands hot pans and boiling water. It produces a high quality and professional finish and requires very little maintenance, simply add a top up coat every few years as required.

Le Tonkinois Varnish has gained world recognition for its results and is regarded as one of the world's best varnishes for indoor, outdoor and marine use.

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H.D. Services Ltd: Sewage Treatment and Water Boreholes

Founded in 1984, H.D. Services Ltd. aim to provide the highest quality percussion drilled boreholes, sewage treatment systems and Open-Loop ground source heat pump installations in the Southeast. Feasibility of any project can generally be confirmed upon receipt of a site postcode.

We offer a one stop shop for self-builders, developers, contractors, consultants and architects, providing waste and drainage solutions, independent water supplies and renewable heating options – all specifically tailored to meet individual needs and suited to the geology of the Southeast.

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We are award winning installers of Open-Loop GSHP installations. These systems utilise ground water as a heat source. Groundwater is pumped from a water supply borehole directly to the heat pump where temperature is extracted.

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Fennell Green & Bates Chartered Surveyors is a 150 years old practice based in Wakefield. At FGB, we specialise in building condition surveys, house structural surveys, project management, town & country planning, coal mining risk assessments, site investigation and remediation of brownfield land.

Fennell Green and Bates have been involved in over 1,740 projects over the past 22 years dealing with contaminated land, ground stability issues, phase 1 contaminated desk top studies, phase 2 site investigation projects, coal mining risk assessments and soil sampling for housing, commercial and industrial developments in north of England and the Midlands. Our practice also acts as mineral advisors to several building materials companies and that work has taken our surveyors all over the UK and to Ireland, Europe, Russia, South Africa and Australia to work on a wide range of projects.

At present we are managing the remediation of a glass works tip on behalf of a client for the site to be used as housing after the materials on site have been processed and re-engineered on site for the development platform. We have recently completed the verification of the works for a medium sized housing development in Yorkshire in a former quarry that has been backfilled with engineered fill from site.

Our team is experienced in all types of site engineering and soil management that includes materials testing that can save costs due to the re-use of these soils and a reduction in muck away.



Fennell Green & Bates is a chartered mineral, waste, energy and building surveyors practice, with a specialism in project co-ordination and management in the construction and mining industries.



The company had evolved substantially since its inception in 1875 when founders Mr Fennell and Mr Green, took over the practice from the eminent mining engineer: Mr J Tolson White.

Under the expert direction of the current director, the company has expanded exponentially, employing experienced staff with chartered surveying expertise. From its convenient central base the UK in Wakefield, West Yorkshire, customers can be reached easily within three hours, excluding the southern counties of Devon and Cornwall, which takes a little longer.

As leading specialists in construction project co-ordination and management, the company's range of services includes: building surveys, land condition surveys, coal and other mining reports, contaminated land audits, land and mine surveying, geotechnical advice and site investigation.

T 01924 255666
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www.charteredurveyorswakefield.co.uk



Fennell Green & Bates
Old Joiner's Shop, 59 Oakenshaw Lane
Walton, Wakefield, West Yorkshire WF2 6NJ

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Class leading waterproofing & sealing solutions

CARLISLE Construction Materials Europe (CARLISLE CM Europe) manufacture high quality waterproofing systems for new build and refurbishment flat roofing projects, along with the ARBO® range of sealants and EPDM tapes for façades, providing complete building envelope solutions for the construction industry.

CARLISLE CM Europe is a dynamic company, driving innovation in speed and ease of installation, sustainability, and waterproofing performance across a variety of roofing technologies, including EPDM, TPO and liquid Waterproofing. Offering expert technical advice to specifiers, CARLISLE CM Europe supports optimised specifications, leveraging the variety across the company's waterproofing and sealants ranges.

CARLISLE's RESITRIX® single ply waterproofing for flat roofs is the only roofing system that combines the properties of EPDM synthetic rubber and polymer-modified bitumen to create a durable hybrid membrane. An extremely flexible, single-layer waterproofing membrane, it can be applied on almost all substrates and provides fast and neat installation, with each section of membrane welded together quickly, easily and safely using a hot-air device without any need for naked flames.

Suitable for mechanical installation using induction technology, CARLISLE's HERTALAN® EPDM system enables roofs to be made watertight quickly, with the company able to produce EPDM membranes up to 30m in length and in various widths up to 20m, thanks to its vulcanisation factory in Mansfield.

Another hero product within the CARLISLE range is the ARBOFLEX® PU single component liquid waterproofing system. Made from pure polyurethane, which, once cured, forms a



seamless elastic roof covering without any joints, ARBOFLEX® PU delivers air tightness and waterproofing on most substrates.

A high performance and wear-resistant membrane, ARBOFLEX® PU can adapt to any surface, including uneven, curved or irregular

substrates. With its rapid-curing properties, it allows foot traffic within 24 hours. The single component liquid waterproofing can be applied straight from the tin, allowing fast and easy installation, and it is green roof compatible.

In addition to offering state of the art flat roofing and façade solutions, CARLISLE supports expertise and knowledge sharing with the company's training courses at the CARLISLE® ACADEMY. Designed by professionals for professionals, CARLISLE CM Europe training courses enable attendees to learn about the proven advantages of EPDM waterproofing solutions in an up-close, hands-on manner, ensuring construction industry professionals can maximise the products' performance benefits on site. For more information, visit: <https://www.ccm-europe.com/gb/academy>

Anticipating change creates opportunity for innovation and exceptional customer service. CARLISLE has recently strengthened its sales and distribution network for the UK and the ROI market, welcoming new professionals to the company's sales team. For sales and distribution enquiries contact our Mansfield office.

You can watch installation videos for CARLISLE CM Europe products here:



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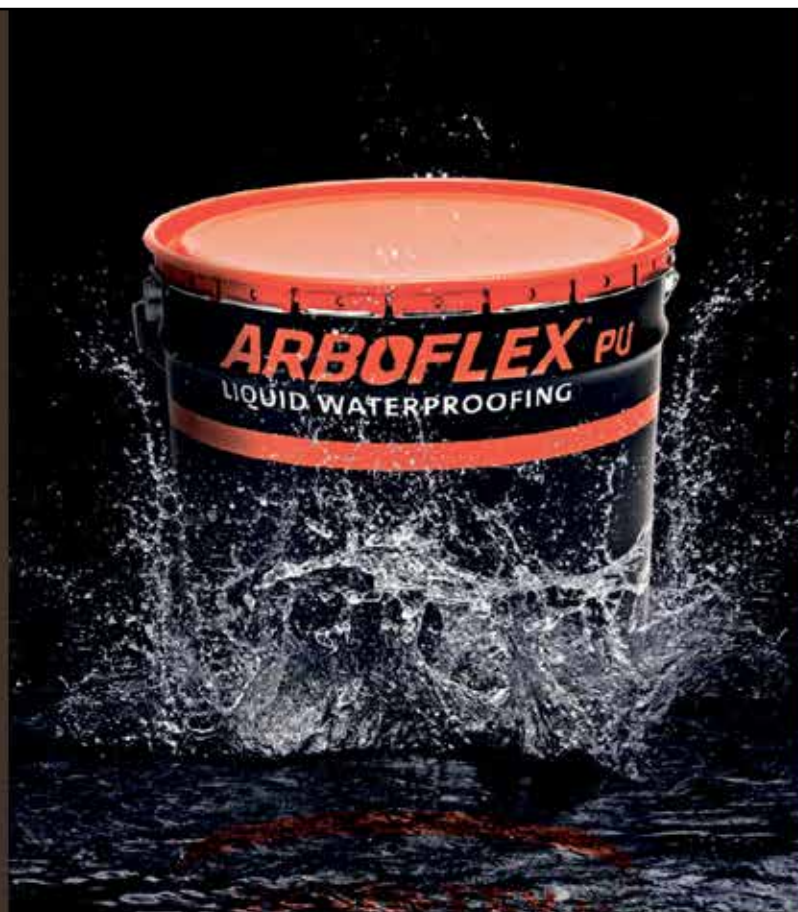
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- ☑ Weather-resistant: can be used all year round
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- ☑ BBA Certified
- ☑ Seamless finish, adapts to uneven, curved or irregular surfaces



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CARLISLE
CM EUROPE

Bluerun Ltd once again achieves excellence in the workplace

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

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

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

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

Of course, the company has the capabilities to manufacture most things from timber, hardwood, softwood, panels and sheet material. Some common items Bluerun Ltd manufacture for the domestic building market include windows, doors (exterior and interior), bi-folding doors, staircases, bespoke storage units and wardrobes, all



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

of which come with the option of being sprayed in primer or to a finish.

If you're looking for items made from both hard and softwood or even veneered and painted panels, Bluerun can reproduce an array of items including replacement sashes, where it can manufacture a brand new one on a like for like basis, so the mouldings will match. "Similarly, if a domestic client has found an image of a door, for example, that they would like us to reproduce, we can usually do that. Recently we have started using a glass supplier that can supply us with stained glass effect units, complete with leading that has been aged and soldered, which looks absolutely breath-taking," added Dee.

Bluerun only produce purpose made joinery to client's drawings and specifications. Its unrivalled level of customer services means that free quotations are normally provided within 2-3 days or less, and the company can usually deliver a quick turnaround of any manufactured items required. And, because it has an experienced spray operative in charge



of a modern spray paint and lacquer facility, articles can leave the factory in a fully finished state, ready for installation on-site.

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

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

T 01799 599995
dee@bluerunltd.co.uk
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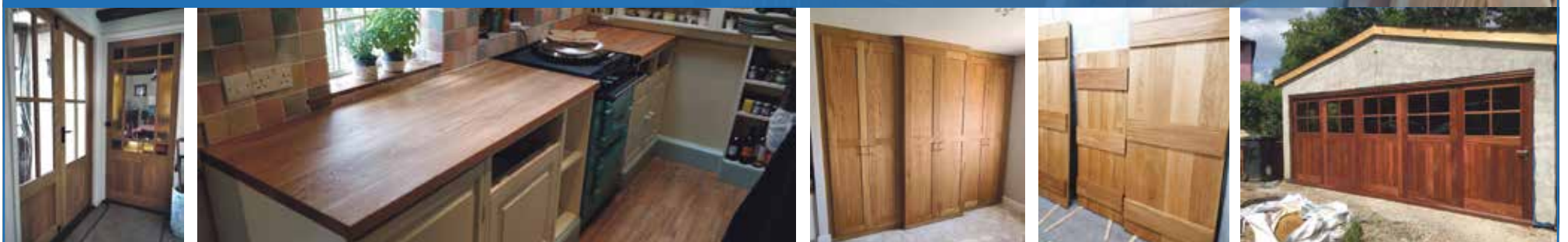


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A CLEAR CERTIFIED VISION

Vandecasteele Houtimport are one of the leading European timber importers and have ambitious aims to trade only in certified timber by 2025

The Belgian fifth-generation family company, founded in 1883, Vandecasteele Houtimport specialises in the import, trading and export of tropical hardwood from Africa, Southeast Asia and South America, Scandinavian and North-American softwood, North American and European hardwood.

Sustainability and reliability are an essential part of Vandecasteele Houtimport's DNA. With over 140 years of experience, the company is determined to achieve the goal of trading only certified timber by 2025. The challenge lies with the hardwood and especially the tropical hardwoods. Today they are at 80% certified and have a clear vision: only certified timber has a future.

A long-term goal that can only be achieved by including all partners. Substantial investments have been made over the years to be able to realise this future goal. You cannot achieve this goal overnight. This is a long-term job in which all partners must be included. If we want to assure our customers that we keep our promise to only trade timber that comes from well-managed, certified forests, we need to be sure that all our trading partners share the same strictest certification and sustainability processes as we do.

Vandecasteele Houtimport has a unique business model. Importing timber from all over the world, keeping in stock for several years, in some cases, even decades. Stock is our strength and our specialty. In times when supply is difficult or tight, we can count on our invested stocks to guarantee continued supply.

To achieve our goal, we have taken several actions within the company. First, we were assisted by external experts to get the procedures and protocols in place. Secondly, the team at Vandecasteele was reinforced with two forest engineers in Brazil. That way we can keep a finger on the



pulse of every shipment, and we are able to accurately apply the ever-changing legislation in Brazil with great precision. This sends an important signal to our suppliers. They know that doing business with Vandecasteele Houtimport means complying with a procedure that is continuously refined and adapted. All timber transport requires our approval. When in doubt the timber is not accepted.

Masters in diversification
Vandecasteele has a long-term commitment to preserving the forests. The family business imports more than 130 different species of timber coming from 40 countries and has over 120,000 cubic meters in stock, mainly certified hard and softwoods. We support the LKTS program of FSC® Denmark with which we want to help promote the use of lesser known species. We keep these lesser-known species in stock and offer them as alternatives. Timber is too often prescribed from a specific well-known species. From the point of view of responsible forest management, we must dare to choose the right durability class for an application instead of a specific timber species.

Rethink everything: a positive evolution in consumer purchasing behaviour
Customers are increasingly asking questions about certification and the origin of the timber. Buyers are becoming more and more aware of the

need to use certified timber. Importing tropical wood goes further than just asking for timber. There is a continuous evolution, because of new insights and new legislation.

We work together with external experts, we are broadening our internal knowledge and we continually make progress. Making progress is an ongoing process. Considerable steps have already been taken with the EU Timber Regulation but we can and should do better. We want to see and monitor a stronger application and support for certified timber. Vandecasteele communicates continuously with the users via its website and campaigns in order to spread that message. This is necessary because the purchase of FSC® certified wood contributes to 14 of the 17 United Nations Sustainable Development Goals (SDGs). The purchase of FSC® certified timber contributes to biodiversity.

Since the year 2000, Vandecasteele Houtimport has committed itself through the Corporate Durability Charter by signing up to environmental objectives exceeding the applicable legislation. In 2018, the charter started a partnership with CIFAL Flanders, the local HUB of UNITAR, the Training and Education Centre of the UN. In 2020, Vandecasteele Houtimport was the first timber company in the world to obtain the international recognised 'SDG Pioneer certificate' from UNITAR CIFAL. In 2022, we were the first timber company in the world to have achieved the 'SDG Champion award.'

Our company continues to make efforts to embed sustainability into the business. We validate our organization's sustainability efforts with the Voka Charter for Sustainable Entrepreneurship (VCDO).

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Meet the Dutch masters: From black swan to the largest floating office in the world

In this issue of Building Update, we are delighted to select Bartels & Vedder BV as our Engineering & Consultancy Company of the Year.

Black swans are rare across Europe, with only small pockets of feral populations and in the stock market, it is categorised as an exceptionally rare event, with often severe consequences. However, if you visit the inland rivers and streams of Oostknollendam, North Holland you will might chance across one, in the guise of a stunning, jet-black houseboat. The floating house has been named, 'Black Swan' by its owners due to its striking exterior design, inspired by the traditional black barns of the low-lying North Holland polders. The first floor is designed below sea level, allowing prime vantage for river life and at night, with the large feature windows, it is the perfect spot for star gazing. The floating black swan is completely energy neutral and typifies the work of emerging Dutch engineering consultancy powerhouse: Bartels & Vedder BV.

The co-founders of Bartels & Vedder, Chiel Bartels and Jelle Vedder began building floating structures on water with the firm Aqua Life Nederland BV in 2004. Bartels & Vedder BV was later founded in 2011 and is now synonymous with innovative floating structures and buildings, such as engineering the largest floating office in the world: The Floating Office Rotterdam (FOR) and an incredible 6,000m² floating ferry terminal in Malaysia.

Once only the stuff of dreams, Bartels & Vedder have brought floating villas, parks, ferry terminals and hotel into the known realm of imaginative engineering design.

The Dutch company specialises in bespoke, engineering infrastructures, land-based designs, floating structures

niche area in construction, requiring ample capital and space. We are however known for our expertise in the area and seen as engineering and floating building/structure experts. We are fully versed in all the nautical details such as: stability, calculating drift forces from waves, and current and wind factors, to engineering access bridges and mooring facilities."

"We always consider optimised, renewable energy

sources, from solar and heat pumps and factor this into all our designs. Next to that we even engineer and check floating solar parks which provides solar energy to the surrounding area."

"Looking towards the future, we want to grow the company as organically and sustainably as possible."

Bartels & Vedder BV offer a bespoke end-to-end service

that is world-leading across the current market. Bartels & Vedder BV can help with structural calculations, 3DBIM drawings, structural advice, monitoring and guidance, or just general structural advice.

For more information, please visit:
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www.bartelsvedder.nl

BARTELS & VEDDER

Interdisciplinair Ingenieurs & Consultancybureau



Reference: floating park, floating office and floating houses in the Rijnhaven Rotterdam, The Netherlands



Reference: floating villa's in the Lentse plas Nijmegen, The Netherlands



Reference: 6.000m² floating ferry terminal, Malaysia



Reference: floating dairy farm in Rotterdam, The Netherlands

BARTELS & VEDDER BV is an engineering firm, specialized in engineering structural and infrastructural projects on both land and water.

We have developed an expertise in 'Flood Proof' building, such as floating.

Some of our referenced projects are shown in the pictures. Our engineering and advice concern the following types of 'Flood Proof' projects:

- Floating houses and villa's
- Floating parks
- Floating offices
- Floating islands
- Floating neighbourhoods and cities
- Floating solar
- Floating jetties
- Mooring structures
- Fendering
- Bridges

We offer the following services:

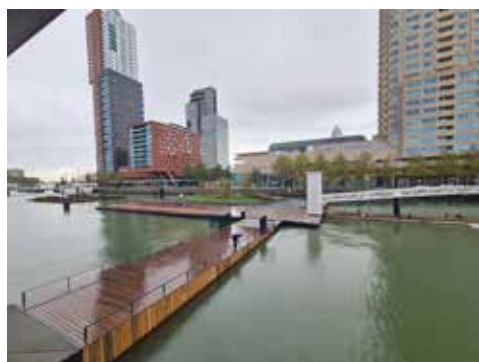
- Structural calculations
- (3D BIM) drawings
- Structural advice
- General project advice
- Monitoring and guidance

For more information, we invite you to visit our website:
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Call us:
+31 6 422 398 53

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and flood-proof buildings, with impressive projects all over the world from The Netherlands, UK, Dubai, to Malaysia.

The secret to the success of Bartels & Vedder is the in-house team of specialists, who execute integrated and interdisciplinary approaches to traditional construction, infrastructure, non-residential construction, offshore and floating projects.

We spoke to co-founder Jelle Vedder to find out more about this unique company, "We have a passion for what we do, priding ourselves on working as a team to complete these incredible projects, from parks, islands, jetties, bridges, villas, to hotels, from urban green spaces to utility projects."

"With green biodiversity on the agenda, we have worked on projects such as: Steigerpark in Rotterdam. With a total overhaul of the area, the park will be 350 metres long, with phase 1 supported by nine concrete hulls. But also, durable and floodproof housing projects such as the project in Rhenen, where houses are built in a flood zone and designed in such a way, that damages during a flood are managed. Or floating houses in the project Schoonschip, where there will be no damage at all in case of flooding."

"We design at a 50:50 ration for land/water designs and floating structures are generally speaking, still a





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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 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.

Additionally, DCON Safety Consultants Limited offers planning compliance assurance services. The ability to strategically support a positive planning decision is exclusive to the company. Its Draft Construction Management Plans (DCMP) inform the overall planning, co-ordination and control of a project from the beginning of construction to completion. The DCMP also safeguards the obligation placed upon a client to produce a safe, functional and financially viable project.

DCON Safety Consultants Limited also provides its

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

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

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

Finally, DCON Safety Consultants Limited can offer a safety expert witness service, which is headed by Diarmuid himself. He has extensively supported safety-related matters, and is a certified and competent safety professional who will work with clients to identify exactly what kind of safety expert is needed. Then, he will use an extensive network of contacts to recruit the right person to protect clients' interests.

DCON Safety Consultants Limited's fantastic service offering and proven track record of offering leading health and safety consultancy services makes the company a worthy winner of our Commitment to Excellence award. Such achievements are proof that DCON Safety Consultants Limited is well-placed to help ensure your safety, health and wellbeing and make your project possible.

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

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Established in 2012, Tuff Waterproofing Ltd is the UK's premium designer, manufacturer and supplier of heavy-duty GRP waterproof flat roofing systems. TuffStuff® has a dedicated product development team that work closely with customers and its own UK based manufacturing facility to produce an evolving product range that is suitable for multiple flat roof applications.

From its base in Sherburn in Elmet, North Yorkshire, TuffStuff® is the UK's premier GRP flat roofing system and supplies its products through a dedicated stockist network throughout the country.

The advanced TuffStuff® formula uses the latest liquid polyester resins, glass fibre mat reinforcement and flexible trims, to create a fully integrated waterproof, seamless attractive finish with a 25-year guarantee on materials.

Tuff Waterproofing has further expanded its TuffStuff® product range and is now offering its latest GRP roofing innovation; TuffStuff® flexible GRP. This is a single resin solution that provides an exceptional combination of versatility and durability. It is extremely quick to lay and does not require stripping or re-decking of the roof, saving customers both time and money. It can be applied to a variety of surface types and structures including vertical sections.

Managing Director, Greg Gimenez commented, "Standard GRP is rigid when it is cured, and it is specifically designed for flat roofs. However it can only be applied to OSB3 (Timber), and while this has been very successful, contractors have been looking for overlay systems which can go over other substrates." TuffStuff Flexible GRP can go onto many



substrates including felt, asphalt, single-ply, GRP, concrete, timber and metal.

While other companies have standard GRP, TuffStuff® knows that this flexible GRP provides an exceptional combination of versatility and durability. TuffStuff® flexible GRP has become a very important product already, for a number of reasons. It is a one-pot system, whereas standard GRP comes with a base coat as well as a top coat, and this saves a contractor plenty of time and, comes with a 20 year product guarantee on the full system.

However, the major advantage is that while it is curing, it is actually showerproof, and Greg commented, "If contractors experience a rogue shower while installing, they may have to go off-site, but upon returning they can carry on knowing that their work is not ruined (showerproof whilst curing), as it would be with standard GRP. This aspect of our product will really excite contractors that work with GRP regularly." This plus the fact that it is crack resistant, with no weak points has meant that facility companies have also begun using the flexible GRP for patch repairs too.

TuffStuff® Flexible GRP will form a highly flexible, extra tough and seamless waterproof membrane – an ideal solution for areas of heavy-duty foot traffic.

Tuff Waterproofing Ltd will be exhibiting at the UK Construction Week in October in Birmingham, during which clients can find out more about this amazing new product.

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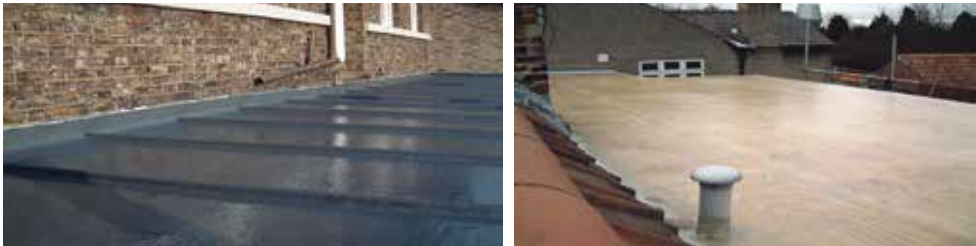
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Complete compliance solutions

Since 2014, CheckedSafe has provided simple and inexpensive tailored compliance solutions. Established by Gary Hawthorne and Darran Harris, CheckedSafe is a SaaS platform compliance provider providing several apps and a web-based reporting system that is multi-functional and secure.

The CheckedSafe system offers organisations a complete solution, enabling them to manage and protect their workforce and comply with legal compliance requirements whilst reducing cost and liability. "We can provide you with a fully integrated solution – you can be completely paperless – also by using our system properly you will have a legally defensible product. We bespoke templates on the app to suit individual requirements, our latest release now means that the client can also do this themselves," said Gary.

Located in Burnley, its system is global and can be accessed from anywhere as long as you have an internet connection for the management portal, the app itself works off line and on-line so there is no restriction on using the app.

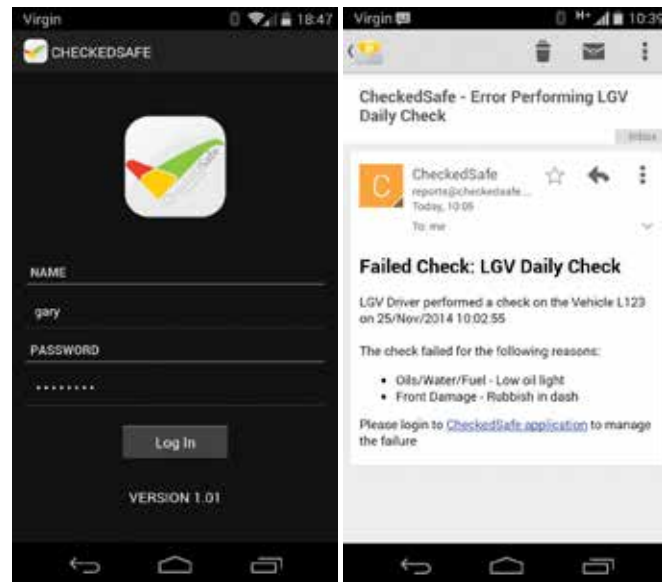
Both Darran and Gary's individual expertise has resulted in CheckedSafe being a nationally recognised company. "I am a transport professional with 30+ years in commercial transport, and Darran has 25+ years as a solicitor, so our individual skills set us apart from other 'IT' providers in the industry," said Gary.

CheckedSafe has a range of services from vehicle compliance solutions, compliance and regulations, risk assessment and incident reporting tools via the



App that enables them to offer the client a complete solution. Gary explained, "We constantly develop our product from user feedback. We release new features at least every quarter and a new app probably every four months depending on what features we have developed. Customer feedback is critical to us, we know a lot about transport, but the end users have great ideas that we take on board and use to develop free of charge and push out to the CheckedSafe community."

CheckedSafe's web-based reporting system is accredited by DVSA and the FLTA and utilised across all fleet types of HGV, PCV, VAN, plant or utilities. If



it needs a checklist, CheckedSafe can digitise and catalogue it, providing you with a cost-effective compliance solution.

With much of the industry yet to explore, over five million commercial vehicles in the UK and over 20 million pieces of plant, there is a huge market for CheckedSafe to expand into. "Our plan is to furrow into the fleet industry and develop new features, and if from this market we get new ideas then we will look to develop them further. We have recently developed our API to link with Dynamic 365 for a large crane operator which will come into development later this year/early 2022," stated Gary.

Despite COVID-19, CheckedSafe has managed to outsource all marketing resulting in an increase in in-bound enquiries. Utilising

platforms such as Zoom and Teams, less time has been spent travelling and more focus has been on growing the business from home.

Eight years ago, CheckedSafe was an idea, that today, has flourished into a fully successful business. Gary and Darran are passionate about what they do and provide a skill set that boasts professionalism and expertise. "We know our industry and our clients have an immediate infinity with us and put faith in us," said Gary.

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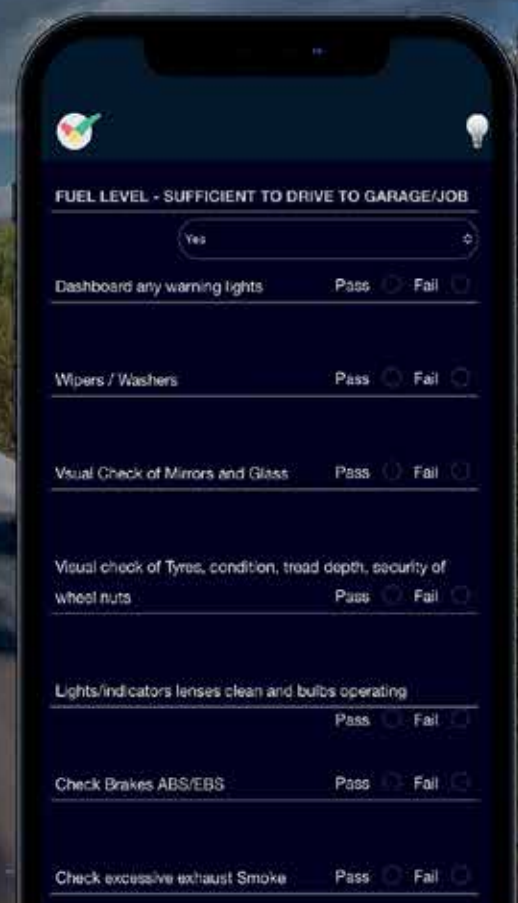
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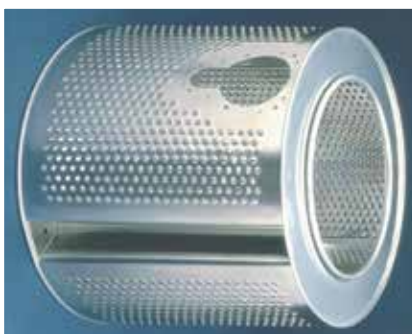
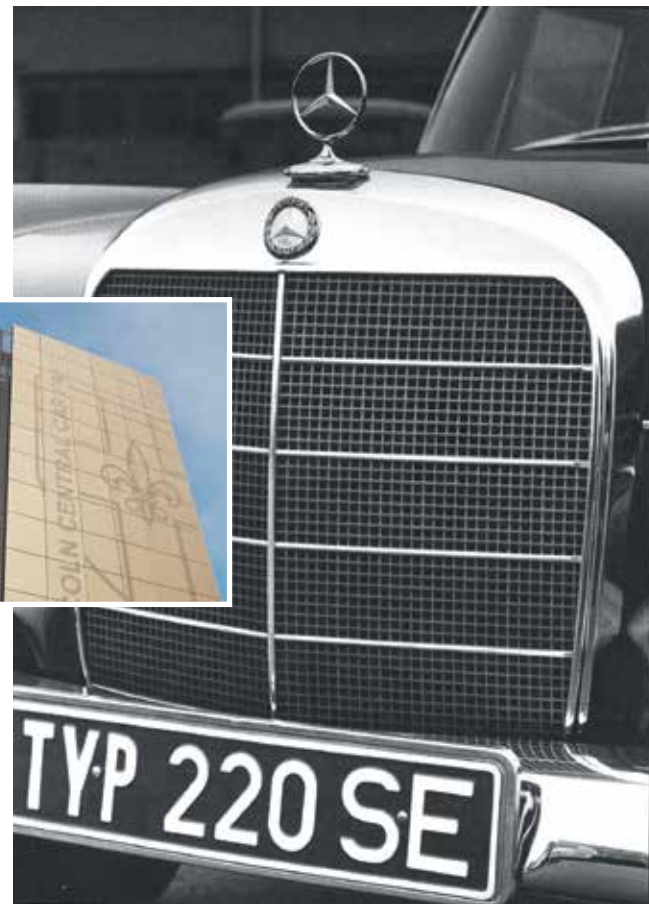
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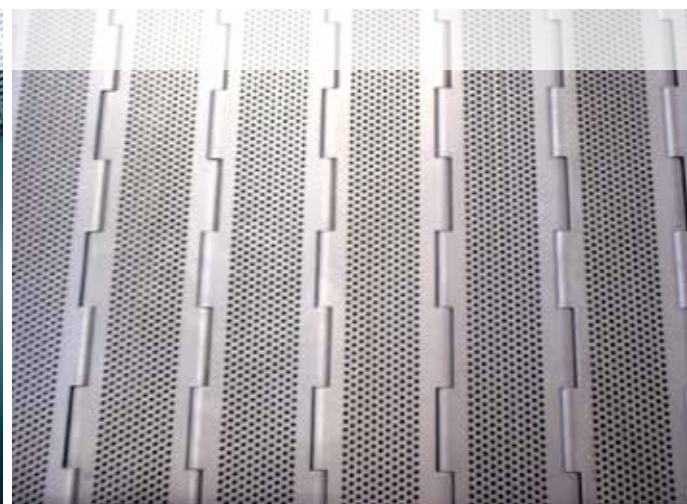
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Industrial Processing

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

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

A key consideration here is the aggressive nature of the water towards the materials being used. RMIG has vast experience in servicing the waste water industry, and produces high flow, burr-free perforated waste water screens, offering accurate screen tolerances and effective separation.

Another area of Industrial Processing is medical and pharmaceutical,

where RMIG's perforated materials are able to give firm tolerances during their manufacture, and are well suited for use in sterile environments.

RMIG's 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.

Additionally, RMIG works with biomass drying applications. The demand for alternative sources of sustainable and renewable energy is always growing.

RMIG's Bridge Slot sheets are the most effective way of drying woodchip to an optimum moisture content, ensuring boilers operate efficiently to benefit farming and agriculture.

Bridge Slot

The RMIG Bridge Slot sheets play an essential role when it comes to

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

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

Food Processing

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

For more information, please visit: www.rmig.com, telephone: 01925 839610 or email: info.uk@rmig.com

The new alternatives in power conversion

Power conversion is familiar in most consumer and industrial technologies, which typically use AC adapters to convert to DC and supply the required voltage. However, while the method of conversion allows a heater to operate at a given set temperature, it receives the full voltage when turned on, which can cause damage over time in some cases. Other solutions, such as phase-angle controllers and DC power supplies also have their own setbacks, making power conversion a tough task. In this article, Stan Breitlow, chief system designer at industrial temperature controller manufacturer Watlow, discusses the new alternative in power conversion.

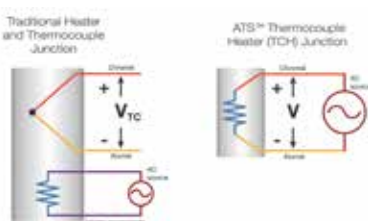
The necessity of power conversion

The goal with a heater is not to attain a given DC current, but to maintain a given temperature, which is done using a switching device that turns the power on and off rapidly. Usually, this kind of switching or cycling is not an issue. But in some cases when heaters are small, have ceramic components, or where control of multiple heaters is needed, it is not ideal to have the device on with full voltage, let alone have it switching between states. For example, this can happen when precise heating is needed in medical devices, or rapid heating is needed to test microchips in the semiconductor industry.

The issue becomes worse when constructing devices for an international market. Heaters often have very specific voltage requirements, but the power sources can vary from country to country. In today's global economy, there is a great need to normalise this power for use with heaters built for the voltage requirements of any country. In short, power conversion is an old idea, but current technologies in the market are not well suited for some applications.

The problem with power conversion

Power conversion is essential for any heater, whether in an in-home medical device or a large-scale industrial



process. But as heaters become smaller and more intricate, more attention must be paid to their power supply. It's important to be mindful that there are four types of cases where inadequate power conversion can lead to problems.

Firstly, fragile heaters become easily damaged. Switching a higher-voltage power source on and off creates wear and tear on devices. As this happens, smaller, more fragile heaters are more likely to fail over time.

New power conversion technology

Power conversion is commonly achieved through phase-angle controllers, transformers and power supplies. But as we have seen, these solutions can either damage heaters, or take up large amounts of space or make it incredibly hard to measure and control the power flow. Watlow's power conversion technology solves these issues by providing the ability to bring voltage up or down smoothly without having to introduce a bulky power supply. Watlow temperature controllers, such as POWERGLIDE®, are capable of modulating the amplitude of the output voltage, allowing the voltage to step down from 208 volts to as low as 20 volts.

Lowering the voltage in this way is a great way to drive low-impedance heaters. It can reduce the power distribution rating with smaller fuses and wires, which saves money and space.

For further information, please contact Johann Lainer, T +43 6244 201290 jlainer@watlow.com www.watlow.com

Decarbonising petrochemical refining

Petrochemical processes have traditionally been heated with fossil fuels, but pressure is building to mitigate carbon dioxide emissions and advance long-term decarbonisation goals. Fossil fuel heated processes leave big shoes to fill when it comes to thermal processes, so electric process heaters often raise two big questions: how big can an electric heater be? And what is required to maintain proper control of large electric heaters? Here, Dennis Long, chief system designer at industrial electric equipment manufacturer Watlow, answers these questions and explains why opting for electric is crucial.



advantages including less thermal lag, safer operation due to no fossil fuels to burn or combust and smaller overall footprint.

Maintaining control

Most engineers have never seen electric process heaters and heat exchangers of these sizes or capabilities. So, naturally, some of the most common questions about larger process heaters have to do with control, including what

additional elements are needed to ramp up the heater and how that affects the existing electrical system.

Just because larger electric heaters have not traditionally been used to heat all processes in the petrochemical industry does not mean that the technology is untested. In fact, it's far from it.

Field-proven power switching devices have been used for low voltage electric process heaters and electric medium voltage motors across industries for years, and the ability to control voltage is well established.

Programmable logic controllers (PLCs) bring heaters online in ways that do not cause problems for other devices connected to the same power source. The heater and controller are part of one closed-loop system, which streamlines integration and yields more control over the entire system. This technology's tried and true nature in other applications reduces the risk for petrochemical process heating.

New tech driving the energy transition

It's worth considering some of the technologies that make electric process heaters and heat exchangers promising candidates for replacing traditional heaters. Heaters with Continuous Helical Flow (CHF) technology are playing a critical role in making large electric process heaters more robust and economical.

For more information, please see below: www.watlow.com

The technology behind process heaters has changed dramatically in the last ten years. This is good news for the industry, as electric heaters must be able to provide the same or improved performance that petrochemical engineers have come to expect from fossil fuel powered heaters.

Electric process heaters versus fossil fuel burning heaters

To even consider replacing fossil fuel-burning heaters, we need to have a clear understanding of the current capabilities of electric process heaters. For instance, replacement does not make sense if electric heaters don't come with the size and power required to heat processes that currently depend on fossil fuels. Many of those processes would require larger electric heaters well above the common one-megawatt (MW) variety such as fluid catalytic cracking (FCC) heaters that require between 150 to 200MW of power.

With equipment of this size, a single vessel can have two heat exchanger bundles. Such a setup can produce a single process vessel with a 15 MW duty rating or more. The few suppliers providing electric heaters at this scale can raise or lower the duty rating as technical requirements dictate. This kind of size and power presents a viable alternative for operations currently fired by fossil fuels.

Besides reducing the use of fossil fuels, electric heaters and heat exchangers have other well-documented



Intuitive Temperature Controller Enhances the User Experience

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Deep hole drilling experts at EMO Hannover 2023

UNISIG

DEEP HOLE DRILLING SYSTEMS

In this issue of Industrial Solutions, we are delighted to announce UNISIG as our Automation Company of the Year.

The UNISIG team will be revealing its innovative, intuitive machinery capability exclusively at EMO Hannover 2023: the world's leading trade fair for production technology from the 18th-23rd September.

UNISIG is a market-leading American producer of deep hole drilling machines, supplying to smaller bespoke companies and large original equipment manufacturers (OEM). As leading global experts, UNISIG has the expertise and pedigree to provide advanced precision-driven machinery for all jobs, with its complete deep hole drilling solution from machinery, tools to automation.

The American Powerhouse was established in 1981 and since that time, has built up an unparalleled position across the global industry, with its renowned production of gun drilling and deep hole drilling machines. Entrust Manufacturing Technologies acquired the company in 1995 and moved to the state-of-the-art Milwaukee, USA headquarters.



Now with a strong customer base across various sectors including: aerospace, automotive, energy, firearms, hydraulic cylinders, military and medical sectors, UNISIG has market-leading installation capabilities across Europe, Asia and America.

With world-class design engineers on board, UNISIG has the in-built expertise to design and perfect machinery for other deep hole procedures such as: BTA, gun drilling, counterboring/reaming, pull boring, trepanning, skiving and roller burnishing, bottle boring, bottom forming and many more.



The high-powered B-series from UNISIG has transformed BTA drilling (Boring and Trepanning Association, facilitating precision drilling of 25mm to 500mm, up to 20m deep, ideal for all BTA drilling applications.

For rigid, deep hole drilling, the larger swing B-series has minimized backlash a more powerful drive, with state-of-the-art smart controls, giving high usability with unlimited capability.

For example, the UNISIG B600 can drill 6" diameter holes up to 32 feet deep, with flawless accuracy and concentricity due to the use of counter-rotation of the workpiece. The B600 can perform secondary machining capabilities such as skiving, stepped bores or internal shapes up to 8" in diameter. This cutting-edge machine is perfectly placed for deep hole drilling for aerospace component manufacturers.

From deep to miniature, another groundbreaking machine is the UNX-CP – precision-designed for off-centre holes, with greater depth to diameter ratios. The winning Cartesian and Polar positioning (CP) combination works in tandem with motion control to allow meticulous precision in small diameter deep hole drilling, for ultimate accuracy. With programmable, off-centre counter-rotation, hole concentricity is enhanced, even at depth to diameter ratios of 375:1.

We caught up Philipp Steimle: Sales and Service manager for Europe to find out more about the latest developments, "Our company is expanding its own manufacturing department, due to ongoing supply issues. The recently installed Kellenberger CNC grinding machine will allow us to finish all the drilling spindles in-house. We have also recently installed a laser-cutting machine, a CNC press brake and welding stations, so that we can do all the guarding and coolant reservoirs in-house to avoid delays in our machine building."

"The UNE6 series for medical instrument drilling with its fully integrated automation is a game changer for the industry and proving highly popular in the market. We have invested in more in-house production rather than external third parties, to keep on top of our orders."

The Milwaukee facility at the global UNISIG headquarters was expanded by over 100,000 sq.ft. in 2019, to keep in line with expanding production levels. The further addition of the CNC grinding machine will also help generate greater production, alongside timely upgrading across the production facility. For bespoke custom-built drilling machine orders, the in-house design engineers at the UNISIG Tech Centre in Milwaukee are well versed in the process of prototype building, due to its market-leading reputation.

UNISIG prides itself on rapid machinery and part shipping orders around



the world, alongside a comprehensive routine servicing and repair service- offered remotely and on-site. Furthermore, installation can be carried out expertly by proficient in-house engineers across the world, on demand. Customers can view the full machinery range, with specification capacity (including hole depth in mm) on the UNISIG website.

Industrial Solutions cannot praise UNISIG enough for its outstanding commitment to the industry, from industry-leading machines to exceptional customer service.

The UNISIG team will be showcasing its innovative machinery capability at EMO Hannover 2023: the world's leading trade fair for production technology from the 18th-23rd September.

The team will be happy to answer enquiries from across all sectors.

For more information on UNISIG, please see the website below: www.unisig.com



UNISIG's approach to Automating Surgical Instrument Manufacturing



Photos: UNISIG

As surgical instrument manufacturers pursue greater throughput while facing increased labor costs, automating the medical instrument manufacturing process has become a necessity. However, integrating automation into the gundrilling process for drilling deep holes in extremely precise surgical instruments in lights-out operation is a major engineering challenge requiring more than simply pairing a robot with a deep-hole drilling machine.

The right machine, tools and process must all come together to create small holes with extreme precision in difficult-to-machine materials such as titanium and surgical stainless steel. More importantly, the entire system must flow from a unified concept where the whole is greater than the sum of its parts.

To meet these challenges, UNISIG developed its UNE6-2i-750-CR dual independent spindle gundrilling machine. The UNE6-2i is capable of gundrilling hole diameters ranging from 0.8–6mm in part lengths measuring up to 30 inches with depth-to-diameter ratios from 20:1 to more than 100:1. The machine has a maximum combined drilling speed of 28,000 rpm and a 3,000psi (207) bar programmable flow-based coolant system with dedicated pumps for each spindle to ensure precise coolant pressure control.

Automating hundreds of cycles of precision manufacturing, however, is not possible unless the overall operation is considered from the outset. Surgical instrument manufacturing is a sequential process: parts must be loaded into the machine in a particular way for specific operations that happen in a specific order.

Workpiece length, shape and configuration determine where it is gripped by the robot when loaded into a machine, moved from spindle to spindle for drilling, residual cutting fluid removed, and returned to the



pallet. Where a part is gripped impacts where it is clamped for drilling to ensure accuracy. Every variable along the process chain must be considered and accounted for, and the calculus is detailed and complicated.

Then there are unique customer needs and requirements. The equipment and process must accommodate a variety of part families and hundreds of parts to increase runtime and efficiency. Operators must be able to change over part types and programming without calling in an automation specialist, and the entire process must be controlled from a central interface. Add to the mix that everything must be packaged in as small a footprint as possible, and the scope of the engineering challenge comes into focus.

UNISIG's approach to solving these problems, however, results in targeted automation that enhances the existing

benefits of gundrilling, ensuring a solid foundation for reliable process-wide automation.

At its core, the automated UNE6-2i is a purpose-built machine with automation embedded in its design, not added as an afterthought. Flexibility and adaptability are maximized by a harmonious, interdependent mechanical, software and operational planning scheme.

To meet size constraints, a 6-axis robot was embedded in the machine with a pallet system on the backside of the machine, allowing easy operator access from the front to setup the machine without compromising ergonomics. The configuration enables quick setup changes between prototype and proving operations and full production runs.

The robot automatically repositions the workpiece from the front of the first spindle into the rear of the second spindle without operator input. The process of drilling a part from both ends in a single-piece flow is unique to UNISIG. Workpieces with enlarged features on one side are loaded from the rear of the collet, solving a common problem in gundrilling medical surgical instruments with full automation.

Control of the UNE6-2i and a computer are consolidated into the Human Machine Interface (HMI), a menu-driven touch screen system for easy, intuitive operation. Training and operator engagement with the system is significantly reduced due to user-friendly UNISIG controller menus and prompts.

UNISIG's comprehensive and integrated approach to automating medical part manufacturing is a vision that sets it apart in the industry. It's more than drilling the impossible hole. It's a commitment to understanding and to the research that drives continuous improvement and innovation for automated part production at its full potential.

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).

You will also meet us at the EMO 2023 show in Hannover, Germany, from 18th–23rd September.



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UNISIG
DEEP HOLE DRILLING SYSTEMS

Hand protection that is a cut above the rest

Since the company was established in 2020, its mission has been to bring change to the end-user experience in selecting and buying industrial gloves, gauntlets and sleeves (PPE). As the designer and manufacturer of such an innovative range of quality industrial hand protection that is available for all industrial applications, Manosun is breaking the mould of traditional offerings with a core range of hand protection that are safe and the perfect fit for anyone that requires PPE.

"We believe our services outweigh that of any competitor because as well as our core-range



of products, Manosun offers a quick turnaround product development process where we evaluate the end-user's processes and tweak/develop a more fit for purpose product. As well as our FOC site-survey to enhance any risk assessment, we also add volume to any work operating procedure," stated Steven Patterson, Country Manager UK & Europe.

Manosun breaks its products down into three category's that ensure excellence, longevity and value for money. Each product is made to the highest 'Quality' meaning only the best quality materials and yarns are used to ensure a long-life product that can be used over again without wear or tear, and that also give comfort

to all users. 'Service' – Manosun prides itself on its quick turnaround service whether than be an order process, sample request, or site survey. Lastly, 'Value,' Manosun believe that not only does the cost-in use value matter but also its business values too. "We work closely with our distributors and end-users to nurture them in a partnership arrangement that supports each other's enterprise," added Steven.

Manosun's current portfolio consists of a large range of hand protection products where it works with all end-users including globally known brands such as Nissan, JDR Cables, and SUEZ. Also part of its service, Manosun will survey any work environment, advise on the correct level of hand protection needed or if needed, and will even develop a brand-new product to the exact requirements of the customer.

For the past 12 months, Manosun has been concentrating on the growth and awareness of the brand. It's initial approach to 2023 was to increase the awareness its products and dedicated a quarterly plan that would see them employ two new field sales persons in Q1. The first started on May 22nd and the second will start in the following six months.

From there, the plan is to keep moving in an upwards trajectory for the rest of 2023 and beyond. "Moving forward, we will continue to grow our range of products. In 2023, we launched the Manosun BASIC range (not yet on the website). This is a range of gloves that contain rPET created from recycled materials (Plastic) to make industrial Polyester, each pair of gloves contains on average 36% recycled materials. Having a commitment to excellence

means everything to Manosun, which is why we work with the BSIF as well as local networking and support groups NEAA (North East Automotive Alliance) and the AMF (Advanced Manufacturing Forum) to learn and adopt Best Working Practise from local industry as well as National and European requirements as a PPE provider/ manufacturer currently instructed by the BSIF."

Contact Steven Patterson:
T +44 (0)7468 904409
steven.patterson@manosun.co.uk
www.manosun.co.uk



OUR GLOVE RANGE INCLUDES

ARC

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Designed to protect the user's hands from injury if their grip was to slip or tools that are being used fail.

CUT

A range of industrial cut resistant gloves that offer contrast to the user and cost effective solutions.

SPECIALITY

Our specialist range of gloves protect the user in various environments including cold and chemical-based.

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The general handling glove range has been made from the best quality materials.

BASIC

A quality economy, sustainable range to compete in a market of own-brand price-fighters gloves.

THE FIRST POINT OF PROTECTION

Manosun Hand Protection

A manufacturer and designer of industrial safety products

- Manosun was created during the 2020 global pandemic when industry took an all-time low in productivity
- Located in South Tyneside, the co-creator of the brand has over 16 years of industrial product development and 15 years within manufacturing including Health & Safety
- Our aim is to target the huge UK manufacturing sectors as well as power generation and conservation and offer a quality service, product and development ability, not all solutions can be found off the shelf
- We work with your traditional distribution supply chain so no need to work outside of any contractual obligations, your are free to develop and select your PPE requirements
- Manosun Ltd is also a member of the BSIF a sign and seal of quality and products that fulfil all UK and EU requirements of test and design.

Talk to Manosun for all of your hand protection needs.

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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



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.'"

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.



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.

This year's Royal Society for the Prevention



of Accidents (RoSPA) Health & Safety Awards have been added to a growing collection of awards: the prestigious European Logistics Category Award from The British International Freight Association (BIFA), shortlisted for the Supply Chain Management category and now Building Update's logistics Company of the Year, which has delighted Andrew and his team, "We are obviously very pleased to be selected, we pride ourselves in the service we offer to our clients and we appreciate the recognition."

For all transportation quotations and further information, please see the details below:
T 01709 529709
rotherhamsales@daviesturner.co.uk
www.daviesturner.com



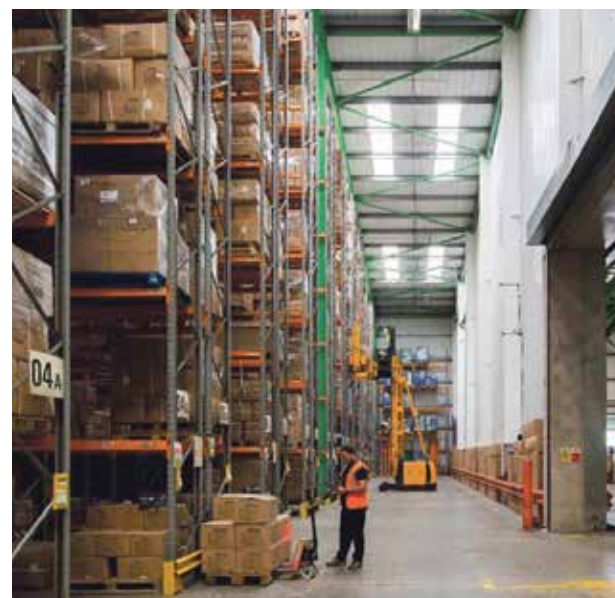
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Davies Turner Rotherham offer many unique ways to arrange your shipping requirements. If you have something out of the ordinary, requires special licences, needs packing, heavy lifting or anything out of the 'normal,' contact our Rotherham office who will never refuse to quote on something unusual and will always take on the challenge.



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Industrial Solutions is proud to announce Service Sealing Solutions Ltd as the recipient of our Commitment to Excellence Award.

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



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

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 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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Curaflex gaskets, wall plate and fibre cement sleeves offer a simple, safe solution for sealing utility pipes and cables through walls and foundations against pressing and non pressing water

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The first company to develop these types of sealing gaskets providing the confidence to offer an industry leading guarantee
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guarantee

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Customisable gaskets

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For more information and guidance, please contact
Service Sealing Solutions.

Phone: 01952 510050
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www.service sealingsolutions.co.uk

Providing solutions for your force or torque measurement applications

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



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

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

Interface Force work mainly with aerospace, automotive, and motorsport companies, and Business Development Manager Tony Rokins told us, "We work closely with companies which are undertaking research into product development, and so this includes universities and also medical companies who need load cells for weighing saline bags – we have a very wide and varied client portfolio."

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

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

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

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

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

In spite of its success in the industry, Interface Force is very much looking to future development. Tony informed us, "We are building new Applications which are based around renewable energy, and we are also developing Cloud-based, Wifi and Bluetooth data acquisitions by making our

devices wireless. This would mean customers being able to collect data from anywhere in the world via an App."

This ever-growing comprehensive range of indicators, signal amplifiers, data loggers and wireless transmitters has been designed to complement the extensive range of load cells, torque transducers and pressure sensors, and the range has developed to ensure that customers have

access to the most accurate, up-to-date, and cost-effective devices available.

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

See Interface Force at the Advanced Engineering Show at Stand number P172.

For more information, please see below:
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Fun on the farm

Rutland Farm Park is a small 18-acre Victorian working farm, within the beautiful town boundary of Oakham, Rutland and perfect for visitors from Leicester, Peterborough, Nottingham, Northampton and Newark.

The farm park was established in 1970 by John and Daphne Ball, after they returned home from teaching in Kenya. They took over the running of the family farm from John's father and decided to add an educational element to the farm. The couple worked closely with Joe Henson: founder of both the Cotswold farm park (now Adams Farm) and the Rare Breeds Survival Trust) and bought rare breed livestock from him.

"The farm has two main functions: a small family-run working farm in a beautiful Victorian farmyard and the farm park. The farm park is a visitor's attraction with a wide range of animals, Daphne's tearoom and a gift shop.

Visitors tell us we are the true epitome of the childhood real farm image and not a manufactured plastic attraction built to generate profit for shareholders. We concentrate



on conserving rare native breeds of animals at the farm park. Some breeds are on the priority 'to save' list, making the loss of the breeds highly likely. This includes our Clydesdale and Shire horses, Lincoln Longwool and Oxford Down sheep, the Saddle Back and Gloucester old spot pigs," explained current owner, Julie Ball.

The conservation of the rare native breeds continues the work of John and Daphne Ball's original vision, through the current fourth and fifth-family generation, making this a truly educational experience for families and children.

The family-run farm park welcomes schoolchildren visits and offers a 30% group discount on admission charges. The team are currently working hard to open the nearby woodland for visitors to enjoy and are in the process of converting the pigsty to a covered

weatherproof area for school groups, children's parties and craft-lead workshops.

Rutland Farm Park guarantees old-fashioned friendly fun and it really is the perfect family day-out for all generations, from grandparents to grandchildren.

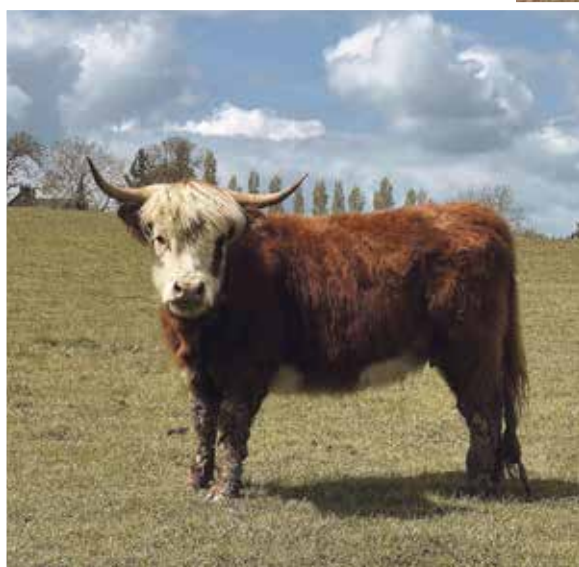
It provides the opportunity to foster a lifelong learn of animals for children, where they are welcome to enjoy cuddle time with the guinea pigs, as well as feeding the alpacas, llamas, cows and sheep.

There are lots of workshops and fun events throughout the year: keep an eye on the Facebook page for upcoming events.

All events can be booked online, with a 10% discount on admission for military and blue light cardholders.

There are toilets and baby changing facilities located throughout the site and free parking.

For more information and to make an online booking:
T 01572 722122
info@rutlandfarmpark.co.uk
www.rutlandfarmpark.co.uk
@rutlandfarmpark
www.facebook.com/rutlandfarmpark



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

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

Opening Times

Summer

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

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

Winter

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

Open on Bank Holiday Mondays

Closed Christmas Day and New Years Day

Admission Prices

Farm Park Admission

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

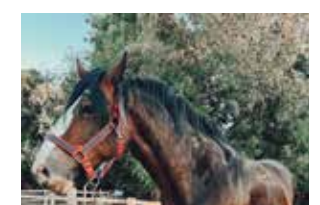
(2 Adults and 2 Children/1 Adult and 3 Children)

We offer 10% Military discount with a valid ID

Annual Passes

Adult 13+ £82.00
Child 3–12 £73.00

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



Please visit **www.rutlandfarmpark.co.uk**, contact **01572 722122** or email **info@rutlandfarmpark.co.uk**

