ISSUE **666** • June/July **2023** INDUSTRIAL

www.solutionspublishing.co.uk

www.facebook.com/solutionsuknews @Publishing_2016

THE HEALTH PROFESSIONA

10 principles for practice....see 24-25

IN THIS ISSUE

Abacus Flooring see page 2

Screwshop see page 4

Curtiss Wright see page 5

Direct Hoist see page 8

Davies Turner see page 11

Camb Machine Knives see page 14

BUILDING UPDATE

UNISIG see pages IV-V

The entire content of this publication is advertorial based. To place an advertorial or an advert, please call 0121 241 8788.

Contents

O3 OnRobot

O7 Enimac
Tape Applications

OS Direct Hoist
Construction Hoist
Company of Choice

Manosun
Hand Protection

11 Davies Turner
Company of the Year

13 Oliver Valves
Instrumentation
Valves

15 Assentech
Biogas & Ventilation

Including BUILDING UPDATE

Featuring a wide variety of companies from across the UK and Europe, from Builders to Landscaping.

Editors Comments

Hello & Welcome to Issue 666 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 groundbreaking innovations and this month, we are overjoyed to be highlighting the activities of Direct Hoist and Davies Turner.

Firstly, we would like to focus on the accomplishments of Direct Hoist who this month features on page 8!

Secondly, we are featuring Davies Turner with the 'Logistics Company of the Year 2023' profile following their impressive performance over the years. For more information, turn to page 11.

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

For all advertising & sales enquiries, please contact Ian Hayward 0121 241 8788



Company of Choice

Award-winning resin flooring from 100% recycled waste plastic

00

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

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

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

East Midlands based company has revolutionised the flooring industry.

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

Established in 2020, the company designs, manufactures and installs resin flooring for a wide range of industries from industrial, commercial to healthcare. With a dedicated aftercare service, customers benefit from an annual follow-up site visit for cleaning advice and slip testing. Furthermore, the sister company: Abaplas Recycling Limited treats all the plastic recycling for Abacus resin flooring products and initiates the sales of treated plastic for use by other product manufacturers.

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

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

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

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

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

For more information on Abaplas, please see the website below: T 01530 432790

nick@abacusflooringsolutions.co.uk www.abacusflooringsolutions.co.uk

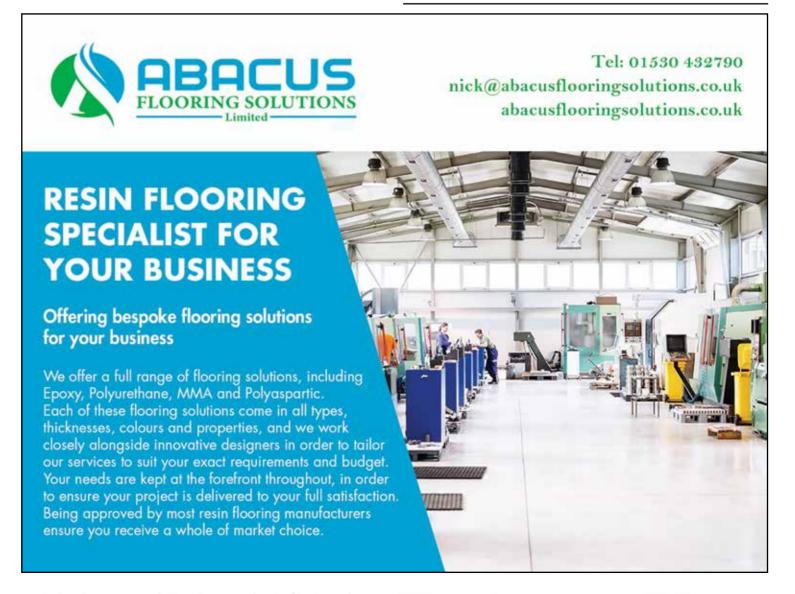


ABAPLAS R E C Y C L I N G

Storage Tanks



www.plantcraft.co.uk



Increased productivity with collaborative application

kura Kogyo is a Japanese manufacturer of logistic equipment and systems. Their offering includes design, manufacturing, installation and maintenance of conveyors and conveying systems.

The Challenge

At Okura Kogyo, the staff would manually load and unload workpieces (rollers) from the processors to trolley. The manual process needs to be done carefully to avoid damaging the workpiece. Like other manufacturers globally, the company is also facing labor shortages.





The Solution

Collaborative application is a clear choice for Okura Kogyo.

Combining
OnRobot
VGC10
gripper
and Omron
cobot, the
manual
processes of
loading and
unloading
workpieces
are fully
automated.



The VGC10 gripper has a customised fixture with 4 suction cups and is programmed to handle 2 rollers at a time to match the production cycle.

T +45 53 53 57 37 vikram.kumar@onrobot.com https://onrobot.com/en

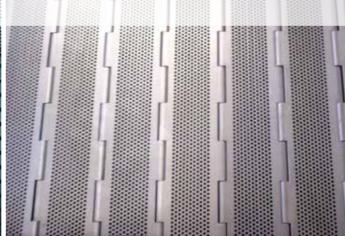
Click the video on the case study page: https://onrobot.com/en/increasedproductivity-with-collaborativeapplication

Industrial Processing



we make ideas come to life





Industrial Processing

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

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

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

Another area of Industrial Processing is medical and pharmaceutical,

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

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

Oliver Hydcovalves supports Hydrogen production



Oliver Hydcovalves is excited to be suppling a large number of its PN16 flanged single isolate ball valves to Hydrogen production projects in the North of England.

The advancement of hydrogen technology presents an exciting solution to the world's future energy needs, and the reliance on safe and reliable ancillary products such as valves to facilitate the transition is as critical now than ever before. This is where Oliver Hydcovalves is leading the charge. Energy industries and OEMs are investing heavily in hydrogen applications, and it will require more large-scale production and storage facilities to help meet the growing appetite for hydrogen, and make it an efficient and affordable fuel source for industrial and domestic use. The production of hydrogen is achieved through methods such as steam reforming, gasification, or electrolysis. These methods separate the elements into various compounds, producing the usable H₂ molecules.

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

British Encoder Products

ncoders are essential components in many industrial automation systems, providing precise and accurate measurement of the position, speed, and rotational angle of a moving object. One of the most common



applications of encoders is in conveyor systems, where they play a critical role in ensuring the smooth and efficient transportation of raw materials and finished products.

A typical conveyor system consists of multiple conveyor belts that transport raw materials and products throughout a plant. The movement of the belts is controlled by a central control system, which relies on information from encoders to accurately control the speed and position of the belts.

Encoder technology has evolved in recent years, offering advanced features such as digital outputs, high accuracy, and high-resolution measurement. These advanced features have made encoders a cost-effective solution for improving the performance of conveyor systems.

One of the key benefits of using encoders in conveyor systems is the ability to precisely control the movement of the conveyor belts. This is achieved by measuring the position and velocity of the belts and providing this information to the control system, which can then accurately control the movement of the belts. This results in a reduction in production delays and an increase in efficiency, as raw materials and finished products are transported smoothly and efficiently throughout the plant.

Contact our team of experts to get your ideal motion control device:
T +44 (0)1978 262100
sales@encoder.co.uk
www.encoder.co.uk

BTM Automation – Produce more with less work

TM Automation Products (UK) Ltd is a specialist provider of sheet metal clinching machines, hydraulic press machines and pneumatic press machines, and has encompassed over 40 years of experience within the industry and offers unrivalled complex designs and high-quality standards within a global market.



BTM Corporation of Marysville, Michigan was founded in 1966 by Mr. Ed Sawdon & Mr. Milus Allison as a manufacturer of bending machines for the automotive and appliance industries. The initials BTM were coined as an abbreviation for 'Bending Tools & Manufacturing.'

From simple tools to advanced automation, BTM supplies solutions for its customer's production requirements in mechanical joining technology, and these may range from standard tools to modular handheld tools up to customised systems.

The company places particular emphasis on providing support to all customers. From the production of prototypes and support for a clinch optimized process, with professional engineering and during the whole general project support from the first sampling to delivery and maintenance, it works closely together with customers.

From initial enquiry through to commissioning, BTM offers a full and complete package. Its expert specialist engineers are trained in the automotive, lighting, heating, white goods and many other industries. The company's main product is its flagship technology 'Tog-L-Loc®,' the sheet metal clinching technology that is simple, economical and an efficient solution to your metal joining needs. After the introduction of the original toggle press Mr. Sawdon developed Tog-L-Loc® as an alternative to spot welding, riveting and other conventional methods of joining.

For more information, please see below: T +44 (0)1767 677001 btmautomation@btconnect.com www.clinching.co.uk



with industrial air purification from Zehnder

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

And the best part: **Zehnder takes** care of all filter changes and maintance.



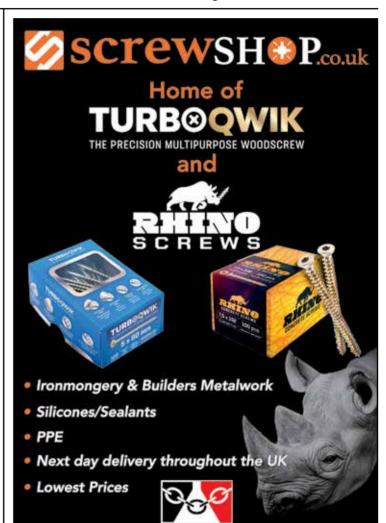
Ben Simons, Head of Europe West: +44 (0)7909 533878 info@zehnder-cleanairsolutions.com www.zehnder-cleanairsolutions.com

m ∏ ◎ □ ¥ #startwithcleanair



Transform your business for the better

Industrial air purification has many advantages, such as:
Healthy and safe employees
Reduced cleaning costs



Office Space to Rent





Unrivalled professional expertise: Wakefield's expert-chartered surveyor



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

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

To allow for a more streamlined process, the company has recently embraced the digital era, by moving its substantial archive, documentation and filing systems to a more secure online storage. This has already provided a more efficient service for its large customer base of: self-build, SME home builders and commercial developers, farmers and landowners.

"Experience in all types of land and former use with a large archive of material to research, helps inform modern solutions to ground conditions problems," says company Partner, John Carlon and keeps Fennell Green & Bates ahead of the

"Our experienced staff are familiar with mining law, land law and regulation and redeveloping land. Experience in subsidence identification from mining and treating the effect, is highly valued by our customers," elaborates John.



It is this winning combination of experienced staff, with knowledgeable areas of expertise, with access to extensive archived documents and drawings, that has cemented the company as a leading specialised chartered surveyor.

Enlisting the guidance of an experienced chartered surveyor, like Fennell Green & Bates, at the early stages of land development or building property can mitigate against further challenges. Drawbacks could include: mining induced ground conditions, contamination and the boundaries of the site, but through informative advice, customers can make detailed, informed decisions.

It is these important, expert risk assessments that can determine whether land use can be developed further to what the client chooses.

"We can advise on developments in former coal mining areas and solutions to stabilise land from any mining or industrial use. Our coal mining risk assessments can be included with future planning



applications in areas of high risk as identified on the Coal Authority data base.

We offer competitive, cost-effective solutions to most land condition problems. Our latest services include: level 3 structural surveys, contaminated land reviews and valuation."

From its Wakefield base, this experienced chartered surveyor practice has helped a large diverse customer base across the UK and according to John, is wholly focussed on helping companies, especially smaller ones to succeed, "The plan for the future is to grow the practice and help the smaller developer to find cost-effective solutions to ground conditions and contamination."

For further information, please see the details below: T 01924 255666 M 07483 164372 fennellgreenandbates@gmail.com www.charteredsurveyorswakefield.co.uk



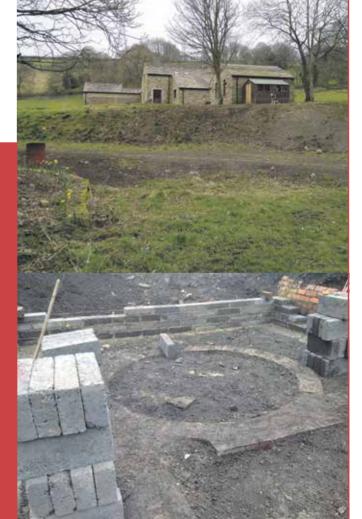
F G B Fennell, Green & Bates

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 1740 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

Old Joiner's Shop, 59 Oakenshaw Lane Walton, Wakefield, West Yorkshire WF2 6NJ **Tel:** 01924 255666 **Mob:** 07483 164372

Email: fennellgreenandbates@gmail.com

Website: www.charteredsurveyorswakefield.co.uk

Enimac releases NEW tape application automation solution

Inimac was founded in 2013 by a tape converter in northern Italy, Biemme Adesivi. The synergy created gave clients in Italy access not only to tape, but to machines, better known as tape application solutions. Over the years, Enimac has slowly expanded this philosophy worldwide by partnering with tape companies and tape converters to add its automation to their tapes, offering their clients the same complete tape and automation solution.

Today, Enimac's headquarters are situated in Cornaredo on the outskirts of Milan in Italy, where the company continues its work to design, develop, and manufacture solutions for applying adhesive tape.

Enimac's extensive history has made them a household name in the industry and is why the company is trusted by



many long-term clients. "We started out by making tabletop and standalone tape application machines for the printing and packing industries. As these machines can be used to apply tape to any flat substrate up to 15mm thick and 1.6m wide, we had requests from other industries who used the machine to apply tapes to aluminium and PVC sheets. Additional industries took interest requiring other types of customised solutions, and we have since made 2-axis application solutions used in EV battery production in the automotive and ship building industries as well as 3-axis and multi-axis solutions for the white goods and furniture industries. As robots and cobots are found in industries everywhere, we've developed an 'endof-arm' applicator to integrate onto these, with solutions used in the automotive, white goods, and other industries. Of course, we customise applicators to integrate into production lines or other machines as well," stated Martin Buerger, company vice president.

Enimac has recently completed some modules with more axes, including the XT Multicartesian that consists of 3 rows and 2-axis linear actuators with applicators capable of applying tape and rewinding the liner. Martin explains XT Multicartesian in more detail, "This module adds a taping solution to a much larger production line. The applicators adjust for the thickness of the panel and move left and right to apply the tape where needed. A panel comes down the production line, passes through the taping module where tape is applied removing the liner with the panel coming out ready for the next assembly process. This applicator can apply tape from pancake rolls or, by integrating a spool unwinder, also from traverse wound spools."

This type of solution has been sold to previous furniture manufacturing companies who apply foam tapes to wood panels, but Enimac ensures the solution can also work with similar flat panels using different tapes in other industries

Enimac has been keen to showcase its new solutions to



the tape industry, as well as explore, learn and gather insight on all the latest innovations and technologies available to the tape and adhesive industry.

"We've just come back from the Tape & Functional Film Expo Europe tradeshow in Amsterdam this March 2023, where we found new solutions, new partners, and possible new projects. We were also at the Adhesives and Bonding Expo Europe in Stuttgart back in November 2022 where we found a new distributor and generated interest in a new industry for us, foams. At both shows we had our X-treme Light with a 25mm,

50mm and 100mm applicator and our UR10e cobot fitted with an Enimac XT Compact 60mm RW applicator, which applied tape to different substrates also removing the tape's liner. In Amsterdam, we also brought a 2-axis solution, applying tape with or without liner on panels and profiles of different materials," said Martin.

If you're interested in finding out more on Enimac's products and solutions then, visit their website: www.enimac.it or follow them on LinkedIn for news of future shows: https://www.linkedin.com/company/enimac



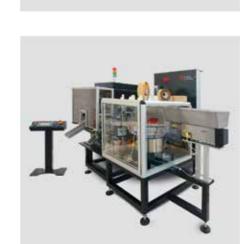
Tape Application Solutions for your Industry

With over 50 years of experience in tape application and converting, Enimac srl has over 150 clients in over 35 countries worldwide

Whatever your need for single or double-sided tape application, Enimac designs and manufactures easy-to-use, high quality and 100% Italian solutions.











Taking you up in the world

In this issue of Industrial Solutions, we are proud to announce Direct Hoist as our Construction Hoist Company of Choice.

Direct Hoist has scaled new heights with the addition of a bespoke training centre at its Lincolnshire site: offering NVQ Level 2 courses in hoist installation. Today, Direct Hoist has four locations and a recent, additional 30m unit premises to accommodate the new in-house training centre.

Specialising in GEDA Hoists, which have lifting capacities from 200kg to 3,500kg, the new classroom facility is used to teach candidates the theory and practical elements of assembly and





disassembly of various lifts that include the use of the GEDA 300, 500 and 2,000 units.

The training courses cover up-to-date industry working practices, legal requirements and working equipment knowledge. The on-site facility includes a 10m training tower, with capacity for transporting a two-tonne platform hoist to full height, with expert tutors offering hands-on optimal safety training.

The more experienced industry students are offered a two-day specialist training course in theory and practical assembly and disassembly of various lifts, with a further week-long course available for deeper understanding of erecting and dismantling hoists. Students are examined by an external assessor at the end of the course and will receive an industrially-recognised certificate, if successful.

Direct Hoist's recent expansion into training is testament to its industrious, hardworking team, who always go the extra mile. As a committed living wage employer, Direct Hoist sees its

workers as the backbone of the company. But it's not only salaries that are supported, Direct Hoist recently trained some of its staff as Mental Health First Aiders, further signalling its commitment to the Workplace Mental Health Charter, through staff wellbeing.

All new trainees are placed on NVQ courses, rigorous health & safety training and further manufacturer courses. More senior staff hold the NVQ level 3 qualifications, which is viewed similarly to the CSCS gold card on construction sites, and as Rob explains, there are many things to learn, "It's surprising how much there is to learn for hoist installation, even for experienced construction workers and managers. We need to know load calculations, equipment specifications, whether there are any voids below grounds or obstructions (such as telephone lines) above.

"Right from the start, new trainees will learn about the specialised nature of construction hoists – including product types, electrical systems, fault-finding, assembly, disassembly and reconfiguration into alternative layouts."

Direct Hoist is always investing in the latest state-of-the-art equipment, such as the German GEDA hoists, which are industry-leading, as Rob outlines, "Our most popular units are the 300 Z goods hoist (ideal for barrows, boards and roofing equipment) and the 500 Z/ZP transport platform, which can be used as an 850kg goods-only hoist or up to 500kg for personnel. It's a great, versatile hoist; it can be left or right-handed and has the facility to move around the loading/unloading ramp."

There are more training programmes planned for the future such as: electrical safety and working at heights. Direct Hoist can help companies scale the heights and take you in the world.



In other recent news, Direct Hoist has also become the UK distributor of Electroelsa an Italian manufacturer of mast-climbing work platforms (MCWPs), transport platforms, material hoists and construction hoists. Rob Wilson commented, "We're currently adapting the entire Electroelsa range for the rigours of the rental market, where we're enhancing components for longevity during intense usage – it's vital to minimise downtime on-site, while maintaining efficiency, cost and ease of use."

For more information, contact the team today: T 01724 781647 info@directhoist.co.uk www.directhoist.co.uk

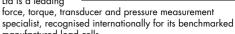


DIRECTHOIST.CO.UK

New products launched for force, torque transducer and pressure measurement



Interface Force
Measurements
Ltd is a leading



Established in 1996 by Neil Johnstone, the business has expanded exponentially to include world-class customers such as: Airbus, BAE Systems, Agusta Westland Helicopters, Formula One Teams, Automotive Manufacturers and Test Rig manufacturers.

With a base in Crowthorn, Berkshire, Interface distributes to the UK, Ireland and internationally: notably Turkey, Greece and the Middle East.

Its flagship distribution products are load cells, expertly manufactured in-house by Arizona-based Interface Inc., alongside the Torque Transducers, associated electronics, multi-axis Load Cells and the XSensor Pressure Mapping systems.

The load cells are favoured by aerospace companies for force measurement due to the innate accurate and repeatable, precision results. Interface Force has repeat custom with automotive, motorsport, universities and medical companies carrying out product development research, including popular demand for load cells for weighing saline bags.

The upgraded 9325 can interface with any full bridge sensor, with the capability of a live calibration of transducers and comes TEDs-ready. The Interface engineers have designed 9325 with improved memory capabilities: up to six calibration ranges for varying loading settings or different devices. Amazingly, it will even remember the calibration of the previous 20 TEDS devices, using its superior automated recognition feature.

The new 9325 hand-held digital display is available to order online at: https://store.interfaceforce.co.uk

T +44 (0)1344 776666 info@interface.uk.com www.interfaceforce.co.uk

Hand Protection



THE FIRST POINT OF PROTECTION

Manosun Hand Protection

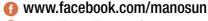
A manufacturer and designer of industrial safety products

- 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.

Tel: 0191 300 8699

Email: admin@manosun.co.uk
Web: www.manosun.co.uk



mww.linkedin.com/manosun



The UK's number one sealing solutions provider

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



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

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

Demanding building types, such as power plants, large industrial plants, reservoirs or airports, often require highly specialised custommade 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: T 01952 510050

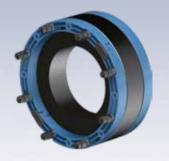
www.servicesealingsolutions.co.uk



Service Sealing Solutions Ltd suppliers of DOYMA products







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





01952 510050 | www.servicesealingsolutions.co.uk sales@servicesealingsolutions.co.uk

Hat-trick Award for Davies Turner Group

Davies Turner as our Logistics Company of the Year.

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

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

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





Established over 150 years ago and as one of the first companies in Europe to become accredited as a Full Authorised Economic Operator, this forward-thinking company is now a bona fide international freight forwarder, with an award-winning pedigree

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

We caught up with Andrew Ford, Branch Manager in Rotherham, Yorkshire to find out more, "The Rotherham branch specialises in awkward and out-of-gauge shipments, shipping many vehicles ranging in sizes and type to small rail engines as well as large machinery moves around the world. Alongside this they offer standard freight forwarding

which means the Rotherham Branch can assist in almost all enquiries they receive: 'from an envelope to a large project."

"We have an extensive knowledge of the services that we offer within our branch, with our



dedication to detail to ensure where possible shipments smoothly and clients are updated should there be any delays out-of-our-control

"We have had a good start to this fiscal year, which was surprising with the current downturn in world trade. Our short-term plan is to improve our office environment with some renovations and also look at team building activities that had to be suspended throughout COVID. We are also looking at more training for our staff so they can gain even more experience and knowledge to help assist our clients.

Despite most of the COVID-pandemic restrictions lifting and shipping costs starting to decrease, the world of



posed by the war in Ukraine, port strikes and a nearglobal 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





Your worldwide freight and logistics partner since 1870

Our mission, quite simply is to satisfy the international freight and supply chain needs of out clients. This has remained a constant ambition since our foundation in 1870.

We continue to take pride in providing a professional and award-winning portfolio of services that are reliable, time/cost effective, and tailored to the unique requirements of our customers. As one of the first Customs -Authorised Economic Operators in Europe, our focus on service, compliance and supply chain security has been acknowledged as market-leading.

Our services include:

Air Freight

Charter

Hubs

IT

Road

Export Freight

Express Freight

Rail

Import Freight

Logistics

Ocean

Specialist



Catering for all your freight needs www.daviesturner.com/specialist/rotherham-specialists T 01709 529709 | F 01709 529710 Email rotherhamsales@daviesturner.co.uk

4/4: Offline buffering for maximum efficiency

any production lines have one or more machines that need to be stopped and restarted frequently, greatly affecting line efficiency. Depending on the situation, an accumulation system can be used to hold items in place while the machine is stopped. This prevents the items from backing up and slowing down the rest of the production line.

Project details:

- Offline accumulation
- AccuVeyor AVo 90 meters of accumulation

■ This translates into 8 minutes of extra storage.

Video: https://www.youtube.com/watch?v=snHEMhMgyk8

This customer sought a simple but effective way to buffer their product flow. As is often the case with cartoners, small stops and jams were common at their layout and significantly impacted the efficiency. In case of one of those micro stops, the

line needed a buffer big enough to give the engineers the time required to fix the problem

The AmbaFlex SpiralVeyor was the ideal solution. Not only do AmbaFlex spirals have a compact footprint, but with the patented triple-e technology, they also have the unique ability to push the performance and increase height while lowering energy usage and maintenance costs.

In this case the AccuVeyor AVo, with 90 meters of conveyor belt, gives the line 8 minutes of extra time. Once there is a downstream stop, the first switch gets a signal to divert the products 'offline' to the Spiral

AmbaFlex, elevating customers to greater heights!

Contact

https://www.ambaflex.com



Labelling & Packaging

Bringing technologies to market that improve packaging automation

Weber

PACKAGING SOLUTIONS

Weber Packaging Solutions provides highquality 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.

For more information, please see below: T +44 (0)1875 611111 sales@weber.co.uk www.weber.co.uk



Global Leader in Labels and Labeling Systems



BLANK & PRE-PRINTED LABELS
LABELLING SYSTEMS • RIBBONS
BARCODING • INKJET SYSTEMS
SOFTWARE SUPPORT
MAINTENANCE



Visit www.weber.co.uk

Tel +44 (0)1875 611111 Email sales@weber.co.uk

BUILDING UPDATE

ISSUE: 666 June/July | www.solutionspublishing.co.uk

Vandecasteele Houtimport receives the Voka Charter Sustainable Entrepreneurship (VCDO) certificate

On Thursday 15th June, Vandecasteele Houtimport received the Voka Charter Sustainable Entrepreneurship (VCDO) 2023 certificate. The certificate was awarded by Voka - Chamber of Commerce West Flanders and POM West Flanders and is a recognition for the extra sustainability efforts of the recipients. The award ceremony took place in the Staf Versluys Center in Bredene. This time, 6 companies that have already been awarded the certificate more than 15 times, were put in the spotlight for their continued efforts in the field of sustainability. Vandecasteele Houtimport are of course part of the acclaimed 6.

International reference

The recipient of the Voka Charter for Sustainable Entrepreneurship (VCDO) work daily on the inclusion of sustainability as a fully-fledged element in their strategy. To this end, they use the 17 sustainable development goals (Sustainable Development Goals or SDGs) of the United Nations as a guideline. The charter therefore has an international frame of reference

Our companies continue to make efforts to embed sustainability in



their business. We validate an organisation's sustainability efforts with the Voka Charter for Śustainable Entrepreneurship (VCDO).

At the end of last year, Vandecasteele Houtimport received the SDG Champion certificate, making us the first timber company in the world to receive these 2 awards.

Contact T +32 56 43 33 00 www.vandecasteele.be

Providing Power Distribution Products for over 40 years

n this issue of Building Update, Fisher & Company is our Company of Choice for exceptional design manufacturing over the last forty years

Fisher & Company is a leading UK design manufacturer for highways & streetlighting, outdoor power, leisure and sports facilities, car parks, markets and now EV charging. They also

make bespoke products for customers where particular requirements are

The Somerset-based company is a leading supplier of Feeder Pillars and Wall Boxes, Sign & Light Brackets, Belisha & Refuge Beacons: mains & solar and electrically insulated digging tools.

Since gaining their ISO 9001:2015 Quality Accreditation during Lockdown, Fisher & Company have added to its list of overseas customers: exporting to new countries including Cyprus and Hong Kong

Interest in Fisher & Company's two main products: Belisha Beacons and Feeder Pillars has increased recently from new companies. These include: schools, hospitals to commercial developments, all discovering the high-quality service and products meet both their specifications and quick delivery expectations

The Fisher & Company Feeder Pillar range is extensive: the SDMP Mini Pillar and BD styles come in a range of sizes, or for larger Pillars, the FFP range is perfect. The ever-popular Belisha Beacons for zebra crossings ranges from the standard Mains Powered AmberGLO8 to the Solar Powered SolarisV2 or SolarisP™, for areater sustainability

Hospital MRI Supply Pillar

the 2050 net-zero target. the SolarisV2 solarpowered Belisha Beacon is the perfect greener choice for car parks, supermarkets and college campuses, with the photovoltaic (PV) panels powering rechargeable batteries for reliable operation. With no reliance on mains power, these efficient, sustainable pedestrian crossings continue to

work, even in poor weather conditions, providing safe crossings where no power is available.

Fisher & Company has worked tirelessly to design and manufacture only the highestquality products and reviews for their products and services are very positive. . Castings Services was delighted with the Stainless BD Feeder Pillar made for them.

"I first rang Fishers and spoke to Hannah, with my initial enquiry for a feeder pillar she was very helpful and managed to source out exactly what I required. I placed the order and the delivery date given was adhered to. The quality of the feeder pillar received was very good and I would have no hesitation in recommending this company. I spoke to the site foreman and he was pleased with the product."

To view the whole product range, including spares like LED Crossing Spotlights, Courtesy Shields and LED Beacons in Pre-Wired and BC22 fittings for retro fitting – available for both Belisha and Refuge Beacons, see the website below:

T + 44 (0)333 666 2122 info@fisherandcompany.co.uk www.fisherandcompany.co.uk













Carlisle CM Europe see them on.....XIV

Feeder Pillars for every purpose from Fisher & Company...



- Traditional Range
- 3 & 5mm Heavy Duty FFP Range
- Versatile BD Range
- Mini Pillar SDMP Range
- GRP Range inc. Bespoke
 - Bespoke and Made to Specification
 - Pre-Wired and Shell Only
 - Powder Coat Finishes
 - 316 or 304 grade Stainless Steel option
 - · All metal products are made on the
 - Fast turnaround even on bespoke
 - High quality build and finish
 - Suitable for all purposes EV Charging, Power Distribution, Events, Temporary Supply, Sports & Leisure, etc

Quality products made in Somerset. Order from stock for next day delivery* - Made to order sizes/specification and Bespoke from 2 weeks. Call our friendly, knowledgeable Sales Team to discuss your next project on the number below.



Tel: (+44) 0333 666 2122 www.fisherandcompany.co.uk info@fisherandcompany.co.uk





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 where supply is difficult or tight, we can count on our invested stocks to guarantee continued supply.

In order 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®

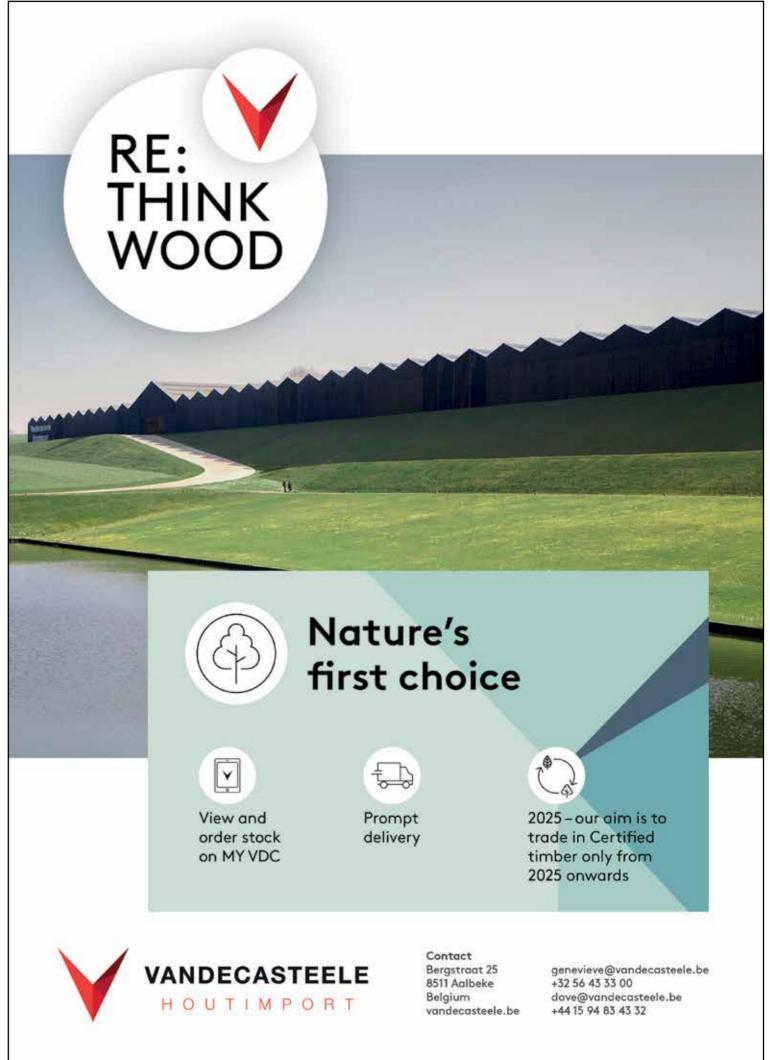


Since the year 2000, Vandecasteele Houtimport has committed itself through the Corporate Durability Charter by signing up to environmental objectives exceeding the applicable legislation. In 2018, the charter started a partnership with CIFAL Flanders, the local HUB of

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.'

T +32 56 43 33 00
www.vandecasteele.be



Bespoke Door & Panel Manufacturer

Bespoke Fire Doors, Frames, Windows and more

Founded in 2014, Pandor is a Bespoke Door and Panel Manufacturer with over 40 years' experience in the door and panel industry.

Whether you're looking for or in need of a unique, challenging, different or normal requirement, Pandor has excellent customer service, expert know-how and industry experience to deliver exactly to your specifications.





ALUGATE

aluminium gates, fencing and doors

WELDED ALUMINIUM

The professionals choice for bespoke high quality

pedestrian, double or single swing

track or cantilever sliding, telescopic

i-weld and Double ZERO system gives

superior strength and no visible welds

choose any RAL colour, micro-texture,

Qualicoat powder coaling

gloss, matt, super matt, three-

dimensional or wood grain finish

or bi-folding gates



BESPOKE DOOR AND PANEL MANUFACTURERS

FIRE DOORS | ACOUSTIC DOORS | PANELLING | DOOR FRAMES

THREE KEY VALUES

SUPERLATIVE QUALITY | SHORTEST DELIVERY | ATTENTION TO DETAIL

OFFERING SERVICE LIKE NO OTHER

EXCELLING IN ACHIEVING FAST LEAD TIMES FOR BESPOKE FIRE DOOR SETS

QUALITY AND SERVICE WITH A SMILE

PROUD MEMBERS OF THE BM TRADA Q-MARK SCHEME FOR FIRE DOORS YOU CAN DEPEND ON

UNIT F2/F3 | LONDON ROAD TRADING ESTATE SITTINGBOURNE | KENT | ME10 1SX

CALL: 0208 279 7611 | 07909 530 007

EMAIL: MIKE@PANDOR.LTD | PANDORLTD@HOTMAIL.COM

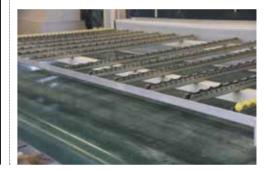
Pandor's extensive portfolio includes fire doors and door sets – certified to FD30/FD60/FD90/FD120 as required, acoustic doors, joinery and panelling, each made to your sizes and finished either clear or in paint as required. Each product comes manufactured to superlative quality with the upmost attention to detail and delivered to you in the shortest lead times.

Manufacturing out of its factory in Sittingbourne, Kent, Pandor has high-quality state of the art machinery helping to achieve the best standard of manufacturing. From the Holzher 5 axis CNC twin bed router to heavy duty sanding machines, veneer presses and lipping and edge banding technology, Pandor can achieve maximum throughput, competitive lead times and accurate, high-quality standards to rival any large-scale competitor.

Quality, Service, more Quality and more Service.

Proud manufacturers of BM TRADA Q Mark Scheme Fire doors and doorsets.

For more information, please see below: T 020 82797611 mike@pandor.ltd pandorltd@hotmail.com https://pandor.ltd



Bespoke Aluminium Gates, Fencing & Doors

Alugate: Bespoke Premium Aluminium Gates

Aluminium gates are an increasingly popular gate choice, but with so many options available, how do you choose?

Like any type of gate, aluminium gate prices vary considerably depending on the options you choose.

Aluminium, as a raw material, is generally more expensive than steel but because aluminium has outstanding strength and durability, a gate made in aluminium will last far longer and it won't need any maintenance.

There are many types of aluminium gates available from bolted, bonded and screwed to fully welded gates, and in different profile thicknesses. A bolted gate will cost less than a fully welded gate because of the manufacturing process. A thicker profile means more aluminium therefore a higher price.

Alugate's Managing Director, Stewart Phillips, explains, "If you want an





aluminium gate that will last a lifetime, a fully welded gate with a 3mm profile is the perfect choice offering superior strength and durability.

"At Alugate our welded aluminium gates use 3mm aluminium profiles so they're extremely strong, which means we can manufacture larger gates; up to a 10m opening on swing gates and 8m on a sliding gate.

"Our innovative manufacturing processes combine an internal weld so that water is not retained, a 3-step sanding process ensuring a smooth surface that is perfect for powder coating and super durable Qualicoat class 2 powder coating so they are fully resistant to corrosion – so that you get the very best gates."

Alugate aluminium gates are custom made and they also offer a free bespoke design service. With a 10-year warranty, an aluminium gate from Alugate will stand the test of time.

Take a look at the new Alugate gate collection at: www.alu-gate.co.uk or give their expert team a call to discuss your requirements on: 0114 3499599.



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

Originally published in Modern Machine Shop

DEEP HOLE DRILLING SYSTEMS

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

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

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

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

Tool life management is another form of internal



automation. Getting feedback to the machine enables the deep-hole drilling process to adapt or halt, if necessary, before tools and parts are damaged.

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

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

In UNISIG's experience, an embedded reamer tool changer enables manufacturers to manage significant throughput increases, even with an operator. With this technology, operators can maintain the pace of production loading the machine, while eliminating the task of inserting reaming tools for each cycle. This allows the operator to redirect efforts towards tasks such as additional quality checks and offmachine setups.

Please visit us at EMO 2023, Hannover from 18th-23rd September. Further information on all machines of the UNI series and the complete UNISIG machine program is available at: www.unisig.com or follow the company on LinkedIn and Twitter (@UNISIG).







Our industry-leading customers around the world rely on UNISIG® deep hole drilling technologies for powerful, intuitive capabilities. We engineer our machines to handle a complete range of applications, and support them with our high level of expertise and service.

Standard Gundrilling Machines: Job Shops & Production Drilling







Production Deep Hole Drilling and Automation:

Modular Machines for Production Drilling







For more information, please visit our website: www.unisig.com

Machines • Tools • Automation

UNISIG machines, engineered and manufactured in the USA



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



The Zero Maintenance Alternative to Wood









Recycled Plastic

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







sales@kedel.co.uk | www.kedel.co.uk | 01282 861325

Protecting your investment, with award-winning, sustainable products

n this issue of Building Update, we are delighted to award SWIFIX with our Product Innovation Award.

External wall insulation (EWI) is one of the fastest growing areas within the UK construction industry. For time immemorial, timber pattresses have been used to secure the fixing of satellite dishes through to utility boxes upon reinstatement. This was until SWIFIX: an Exeter-based

company came up with a brilliant, innovative design range that bypassed traditional timber methods in 2016.

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

SWIFIX is a multi-award-winning company that designs

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

"We work with a broad range of customers from

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

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



INNOVATIVE PRODUCTS TO ENABLE FIXING THROUGH EXTERNAL WALL INSULATION

Our products are one of the most cost-effective solutions to enable the fitting of external furniture through external wall insulation and rain screen cladding, with the added benefit of being designed specifically for the job. Fully Pas2035 complaint for the future of retrofitting and the Modular housing sectors and the ideal solution for a longer term maintenance provision.

All fittings meet stringent technical requirements by preventing the compression of insulation and providing a watertight seal. They are also approved by many leading manufacturers and organisations developing modern methods of construction to support the requirement for new homes in the UK.



INNOVATIVE

A new cost-effective way to fit external furniture through walls and cladding



ROBUST

Super-strong to prevent insulation compression and provide a watertight seal



EASY TO INSTALL

Simple yet effective next generation solutions. See for yourself







Paul Brown, Director at SWIFIX holding the Product Innovation Award

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

The products are regarded as industry-leading, shortlisted for the National Energy Efficiency Awards (2016): with many other accolades recognising innovation and Excellence in the Energy Efficiency Sector, and more recently, The INCA Innovation Award Winner in 2021. The Insulated Render and Cladding Association (INCA) is the recognised trade association for the EWI industry across the UK and awards are given for exceptional work in the industry. We asked Paul, in his own words what made SWIFIX products so special, "SWIFIX are recommended by many system designers as a product of choice, due to the fact that by using the solution and the way in which they are installed, they protect warranties and guarantees for the systems installed."

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

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

"Paul and his hard-working team were delighted to receive our Product Innovation Award, "It is amazing that the products are recognised for their innovation. From the offset what looks like a simple product in design, however was years in the making. From wind loadings, shear and load testing and the crucial element of thermal loss and heat transfer, all variables have been rigorously tested by various testing houses across the UK."

For more information on this award-winning range, please see below:
T 01884 560477
info@SWIFIX.co.uk
www.SWIFIX.co.uk



To find out more, please visit www.swifix.co.uk, call 01884 560477 or email info@swifix.co.uk

Make your project possible

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

Upon gaining understanding of the specific needs, goals and desires of each client and their project, DCON Safety Consultants Limited is dedicated to implementing a design and construction management plan that will meet or exceed these requirements. And, DCON Safety Consultants Limited ensures that there is honesty, integrity, trust and professionalism underpinning every project. Moreover, the company's services are centred on three delivery principles:

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

This excellent service would not be possible without the leadership of Diarmuid Condon, a construction industry leader who brings unique perspectives to encourage, support and mentor the abilities of his colleagues. As a construction professional with a surveying background and experience spanning two decades, Diarmuid is emblematic of DCON Safety Consultants Limited's commitment to providing outstanding services to clients.

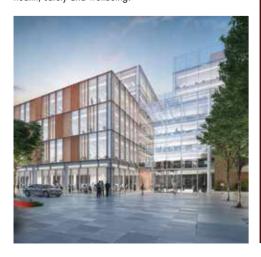
Diarmuid has contributed his invaluable expertise to over 400 projects over 20 years, with a client list including public sector departments, corporate owners, real estate developers, main contractors, design professionals and infrastructural bodies. With this incredible portfolio, Diarmuid is helping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

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

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, coordination 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 safetyrelated 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.

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











Leaders in Built
Environmental
Safety and Health
and Wellbeing
Consultancy

Consulting on various aspects of project design, constructability and operational lifecycle matters for local and global commercial clients.

CONTACT US:

DCON Safety Consultants
Suite 5, Fitzwilliam Square East, Dublin 2
Email info@dconsafety.com
Phone +353 (0)1 611 1556

www.dconsafety.com

The seriously multi-purpose GRP Roofing System

stablished 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.

For more information, please see below: T 01977 680250 info@tuffwaterproofing.co.uk www.tuffstuff.co.uk



FLEXIBLE GRP

Providing an exceptional combination of versatility and durability. Quick to lay, with no need to strip or re-deck a roof, this fast-curing system saves time and money.

It's a single-resin solution which can be applied to a multitude of surface types and structures including vertical sections.

With two coats applied within one hour, TuffStuff® Flexible GRP will form a highly flexible, extra tough and seamless waterproof membrane - can be a solution for areas of heavy duty foot traffic.



www.tuffstuff.co.uk

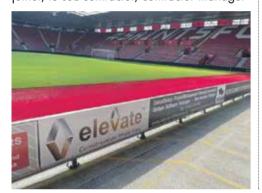
T 01977 680250 orders@tuffwaterproofing.co.uk

Elevate your business to the next level

In this issue of Building Update, we have selected Elevate Software as our Company of Choice.

Construction project management can often be arduous, requiring smooth communication flows between chief architects, main contractors, chartered surveyors and sub-contractors. With stringent health & safety and contractual laws, alongside urban planning laws and biodiversity considerations, it is essential that project management runs smoothly to avoid undue delays in constructions.

Steve McGowan is the manager of Elevate Software, with extensive prior experience working in construction, from apprentice joiner, to sub-contractor, contractor manager





and consultant, under his belt. During his working experience, he noticed that the information flow was key to successful project completion and conversely, the opposite caused frustrating delays.





"Elevate software can provide real-time updates, directing everyone on actions and this results in the team, prioritising their time and becoming more productive."

"Elevate Assist is a standalone software solution connecting everyone under one digital hub and is exceptionally user-friendly."

"Busy professionals are asked for requests for information (RFI's) daily on multiple projects and with higher management now often working remotely, they need updates quickly in real time, at the touch of a button. Elevate Software does all that and much more," explains Steve.

This smart software design was first market tested in 2007 and was shortlisted for Best Newcomer to Show at The Interbuild Trade show at the NEC to impressed industry professionals.



The smart colour-coded traffic-light functionality alerts users to approaching deadlines throughout all the project management stages: design, construction, finance and legal aspects, providing full compliance and audit trail.

The driving aim of Elevate Assist is to propel work forward, on a scheduled time line. The cloud-based servers allow unlimited viewing access in real-time from any remote location.

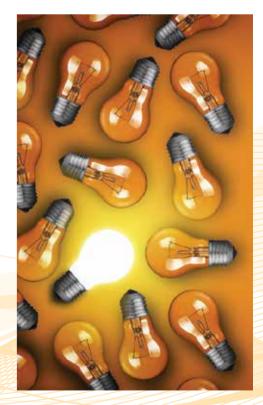
For more information, contact Steve McGowan on the details below: T 01962 761693 M 07824 724377 steve@elevate-software.co.uk www.elevate-software.com



Construction Made Easy

THE COMPLETE PROJECT MANAGEMENT SOFTWARE

90% OF THE PROCESS
AUTOMATED | DESIGN | FINANCE
CONSTRUCTION
HEALTH & SAFETY
CONTRACT ADMINISTRATION
PROGRAMMES
COLOUR CODED GUIDANCE



Please visit www.elevate-software.co.uk, call 01962 761693 or email steve@elevate-software.co.uk

Gromtec Europe: The SIMONBOX

hy 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 for 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 deckina.

local electrical wholesaler



Available from your electrical wholesaler



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









Simonbox IP66 **Waterproof Floor Outlet**

Occasional Power Outlet ideal for concourse, garage showrooms, pop up display areas

Available in two finishes

For more information www.simonbox.co.uk - 0203 2867949



Paperless defect reporting and fleet maintenance all for £1 per vehicle, per week



Industrial Technology & Thermal Products

Watlow reflects on 2022

2022 has lots to be remembered for, challenges and triumphs. But for electric heating element manufacturer Watlow, it's been highly significant year in the company's journey to date. Here Johann Lainer, Marketing Communications Manager Europe at Watlow, reflects on the company's achievements in 2022.

100 years in the making Halfway through 2022 marked Watlow's 100 year-anniversary. The company, which was founded in 1922 in Missouri, USA, is

now a global electric heating specialist with over 1,000 patents and 4,200 employees working across locations in North America,

Watlow began manufacturing electric heating elements for the shoe industry, before widening its product offering in the 1930s to introduce electric immersion heaters to replace steam pipes and fire-hazardous gas. Then, in the 1980s, Watlow expanded its global reach with the opening of sales offices in Italy, France, the UK and Taiwan.

Since its founding in 1922, the company has developed into a highly regarded industrial heating technology manufacturer, holding more than 1,000 patents and employing over 4,000 people working in nine manufacturing facilities and five technology centres across three continents.

Eurotherm acquisition

In June 2022, Watlow announced it had signed an agreement to acquire Eurotherm® from Schneider Electric, the global leader in the digital transformation of energy

management and automation

Eurotherm is a premier global provider of temperature, power and process control, measurement and data management equipment, systems, software and services for global industrial markets. The company's headquarters are in Worthing, UK, with core manufacturing operations in Lędziny, Poland, and a headcount of about 650 people

www.watlow.com

PM PLUS...





Intuitive Temperature Controller Enhances the User Experience

- Intuitive menu flow
- Bluetooth[®] connectivity with EZ-LINK™ mobile app for remote access capability
- Load exactly the right settings every time
- Supply updated settings to customers quickly and accurately
- Access settings in hard to reach controllers

Powered by Possibility

Contact your local Watlow representative or visit www.watlow.com to find out more



Storage Space



LEADING **FOLDAWAY BED** SUPPLIERS





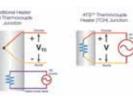
Wallbed Systems designs, develops, manufactures, and distributes a wide range of wall bed systems to 27 countries around the world.

Wallbed Systems Ltd.

www.wallbedsystems.co.uk | Jeremy.Waller@wallbedsystems.co.uk +44 (0)208 704 5796 | +44 (0)7780 66 1958

The new alternatives in power conversion

ower 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

New power conversion technology

Power conversion is commonly achieved through phaseangle 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

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

Roofing & Sustainable Building Materials

Ecomerchant: Ethical. Healthy. Sustainable

Established in 1998, Ecomerchant is an independent employee-owned business, which has been at the forefront of sustainability for 25 years as a leading supplier of sustainable building materials. Based on the core values of ethical trading, healthy materials and sustainability, Ecomerchant has built up an excellent reputation as a provider of sustainable construction materials, with a large and loyal customer base, Ecomerchant is helping to ensure that we all can build healthier, energy efficient and more environmentally sensitive buildings.

Ecomerchant supplies a vast range of products and materials including insulation, airtightness, sheathing and sarking boards, timber windows & doors, lime and clay plasters and renders, natural paints,

renewable energy products, water-saving and off-grid systems, groundwork and landscaping materials and so much more all chosen to help create healthier and more energy efficient homes, schools and workplaces.

Over the past few years, Ecomerchant has seen an increase in the demand for natural alternatives to many building materials, many natural materials outperform their modern synthetic alternatives but without the unwanted environmental consequences. Ecomerchant has developed a range of solutions and products offering higher energy performance and building efficiency with minimal impact on the environment.

All of Ecomerchant's products are chosen for their



ability to eliminate, reduce or significantly improve environmental performance, improve building health and reduce running costs.

Visit Ecomerchant's website to see the huge range of products and discover a wealth of information both general and technical to help you decide what is best for you; many products are available to buy online. Ecomerchant's knowledgeable and helpful staff will be happy to price your enquiry, answer technical questions, take orders or provide quotations.

Contact T 01793 847444 sales@ecomerchant.co.uk www.ecomerchant.co.uk

Waterproofing you can rely on

Carlisle Construction
Materials Europe
(CCM 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.



CCM 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, bitumen and liquid Waterproofing. Offering expert technical advice to specifiers, CCM Europe supports optimised specifications, leveraging the variety across the company's waterproofing and sealants ranges.

CCM'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, CCM'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 CCM 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.

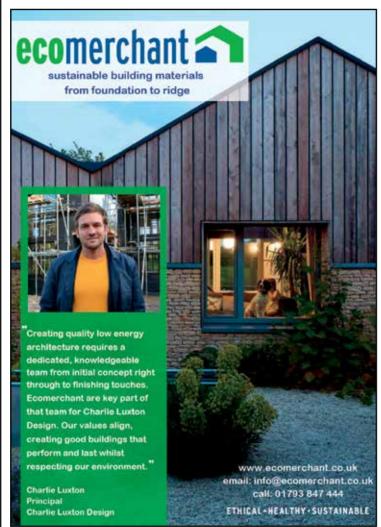
In addition to offering state of the art flat roofing and façade solutions, Carlisle supports expertise and knowledge sharing with the company's training courses at the CARLISLE® ACADEMY. Designed by professionals for professionals, CCM's training courses enable attendees to learn about the proven advantages 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. CCM has recently strengthened its sales and distribution network for the

UK and the ROI market, welcoming new professionals to the company's sales team, with appointments including Charlie Patrick, who looks after the Eastern region, and Crawford McAllister who looks after the North and Scotland.

Contact T 01623 627285 info.uk@ccm-europe.com www.ccm-europe.com You can watch nstallation videos for CCM Europe products here:











Restoration

Traditional brick production specialist

The Bulmer Brick and Tile Company, based in Suffolk, is a family-run business established in 1936. With over 80 years' experience in the industry, the English company truly is a master of its craft.

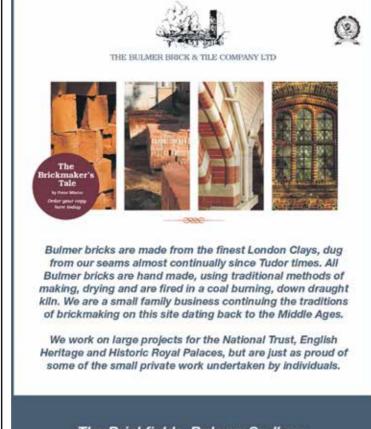


The Bulmer Brick and Tile Company is renowned for its traditional handmade bricks which, fired in a down draught kiln, have a distinctive finish that blends well with the original London clays bricks. The beauty of the Suffolk company's bricks lies in their traditional production method. The bricks are made from clay dug from the same clay seam used since Tudor times. The wealth of experience amassed by the company coupled with their respect for the process is what separates The Bulmer Brick and Tile Company from the competition.

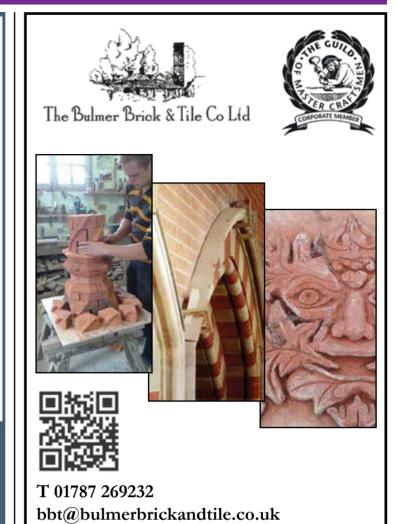
Having produced bricks for reputable clients such as the National Trust, English Heritage and Historic Royal Palaces, the company is able to lend its services to both private and commercial developments. Its facings and specials can be made with almost any texture; with 150 different sizes of facings and a range of over 5,000 special shapes, including all standard plinths, squints and copings and extends to purpose made chimney bricks, terracotta, mullions, jambs, floor bricks, pamments, decorative plaques, garden edgings and a full range of rubbing blocks.

Aside from offering a wide range of clay brick solutions, The Bulmer Brick and Tile Company further offers a select number of additional materials. It is a stockist of Singleton Birch Natural Hydraulic Limes and Lime Putty, available in a range of strengths – NHL2, NHL3.5, and NHL5 – and sold in 25kg bags or 1 tonne bulk bags.

T 01787 269232 www.bulmerbrickandtile.co.uk



The Brickfields, Bulmer, Sudbury, Suffolk CO10 7EF Tel: 01787 269232 Fax: 01787 269040 Email: bbt@bulmerbrickandtile.co.uk



Please visit: www.bulmerbrickandtile.co.uk

Steel Buildings



SOLUTIONS

+ SINGLE SKIN + COMPOSITE + ROLLER DOORS + WINDOWS +







+ SKYLIGHTS + PERSONNEL DOORS + INSTALLATION OPTIONS +

GET A FREE ON-LINE QUOTE AT

XULODLEDIWWW OR CONTACT US ON

DIBOR BOL402 INFOQUEULDINGS.CO.UK

Forward

he Belgian fifth-generation family company, founded in 1883 Vandecasteele Houtimport specializes 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.

"Vandecasteele Houtimport is fully committed to certified timber," says Isabelle Polfliet, Compliance Manager at Vandecasteele, "We're living in challenging times. But, it's for times like these we exist."

With over 140 years of experience, we know there's only one way:

Sustainability and reliability are an essential part of Vandecasteele Houtimport's DNA. The company is determined to achieve the goal of trading only certified timber by 2025. Isabelle Polfliet, "As far as softwood is concerned, we are at 100%. The challenge, however, lies with the hardwood and especially the tropical hardwoods. Today we are at 80% certified!"

Vandecasteele Houtimport has a clear vision: only certified timber has a future. Substantial investments have been made over the years to be able to realize this future perspective.



"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."

This has resulted in several actions within the company. "First of all, we were assisted by external experts to get the procedures and protocols in order. Secondly, the team at Vandecasteele was reinforced with 2 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



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 105,000 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. Everybody is looking for alternatives for Siberian Larch since the ban on Russian imports.

We have over 15 timber species that we can offer as alternatives, such as FSC® Certified Niové, Movingui, Mukulungu, Tali, Padouk, Jutai, Angelim Amargosso, Red Louro, Sucupira Preta, Sucupira Vermelho, Jatoba, Mandioquira, Cumaru, Basrolucus, Guariuba, Tatajuba, European Oak, Muiricatiara, Purpleheart and Louro Preto



Timber is too often prescribed from a specific well-known species, but 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 type of timber, says Geneviève Standaert, export manager at Vandecasteele Houtimport.

Preservation of the forest

In a well-managed forest, only mature trees are harvested, which amounts to one to three trees per hectare. After that, felling will not take place for at least 25 years. In this way, the forest is preserved for the future.

Rethink everything

We notice a positive evolution in consumer purchasing behaviour says Geneviève. 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 certified timber. There is a continuous evolution, because of new insights, new legislation, etc. 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 arrival of 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 the 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 Sustainable Development Goals (or SDG's) of the United Nations'. 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 that obtained the international recognized 'SDG Pioneer certificate' from UNITAR CIFAL. This year, in 2022, we are the first timber company in the world to have achieved the SDG Champion award.

T+32 56 43 33 00 www.vandecasteele.be





Leaders in measurement of Nitrogen Oxides

CO PHYSICS AG has a global presence with is main HQ based in Dürnten, Switzerland, and two other offices in Germany and the United States. Since 1989, ECO PHYSICS AG has been at the forefront of the environmental, health and process control industry. Its ECOlogical leadership combined with its passion for innovation ensures the company remains dedicated to sustaining the environment through all of its business activities.

The company offers sophisticated solutions for a range of applications including Medical, Semiconductor, Automotive, Aviation, Marine and Combustive Engines,



Industrial, Environmental, Ambient Air and Research, and NO liquids. ECO PHYSICS AG offers innovative analytical solutions for measurement of nitrogen oxides and related gas components like ammonia, in the fields of environment, health and process control and by using its interdisciplinary research and development team, it can also deliver customer oriented, tailor-made products and services.

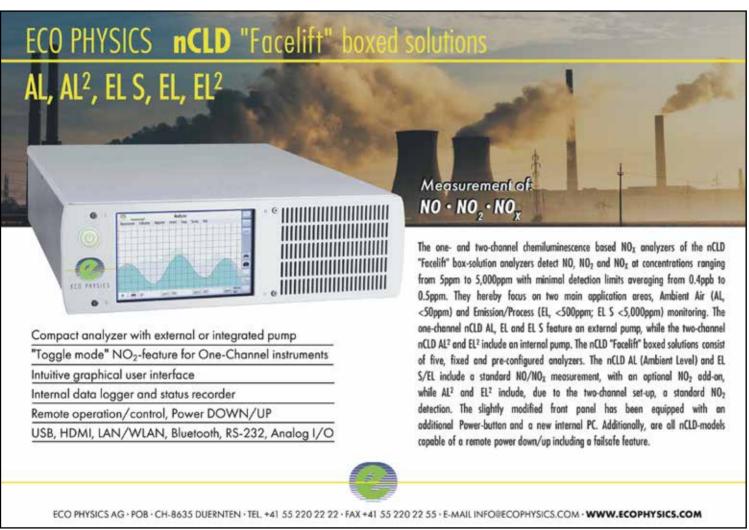
ECO PHYSICS AG is highly involved in the Industrial industry and places a large focus on medium NO $_{\rm x}$, NO $_{\rm x}$ -related and multigas-concentrations up to 5,000 ppm where flexibility is a central requirement. Its range



of Modular Gas Analyzers include parameters for NO, NO₂, NO_x, NH₃, NOx-amines, O₂ and CO₂, and typically support applications for industrial emission monitoring and gas manufacturing control. Marked as the industry's finest, their graphical user interface enables a simple operation and shows the performance of each component, as well as being equipped with their own PCB, corresponding with the mainframe.

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





Instrumentation Valves



Oliver Valves chosen to supply world's single largest offshore wind farm

liver 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."

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

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 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

Machine Knives



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





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 should be included in the test data, supporting ESG and CSR initiatives.
- 6. Accuracy and Reliability: Automated test equipment is advantageous for avoiding misinterpretation of results, allowing test repeatability, solo operation, and rapid

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.

Contact T 01726 844707 info@assentech.co.uk http://www.assentech.co.uk https://www.linkedin.com/company/ assentech



We are proud to launch the World's first range of fully automatic breather vent functional test benches.

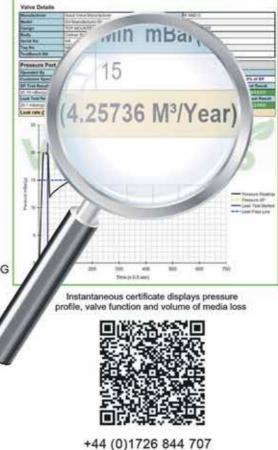
Revolutionising testing through technology and innovation.

- ACCURATE AND AUTOMATIC CALIBRATION AND TESTING IN ONLY 2 MINUTES BY ONE OPERATOR
- CALCULATES PERFORMANCE AND QUANTIFIES VOLUME OF MEDIA
- REVOLUTIONARY SOFTWARE ALIGNED TO THE TEST PROTOCOL DEFINED IN THE INDUSTRY STANDARDS
- QUANTIFIES EMISSION VOLUME FOR ESG REPORTING
- REDUCES THE RISK OF EXPLOSIVE ATMOSPHERES FOR DSEAR COMPLIANCE
- IDENTIFIES LEAKAGE RATE TO REDUCE FUGITIVE EMISSIONS
- YOUR 'INDEPENDENT ASSESSOR'

VENT-LES:

- IDENTIFIES INEFFICIENT AND NON-COMPLIANT EQUIPMENT
- EVIDENCES TANK VENTING DUE DILIGENCE AND DUTY OF CARE
- INSTANT FUNCTIONAL TEST CERTIFICATE FOR EACH VALVE INCLUDING PRESSURE PROFILE
- EVIDENCES ADJUSTED SET POINT FOR INFORMED PROCUREMENT AND MAINTENANCE DUE DILIGENCE
- **ENSURES COMPLIANCE TO INDUSTRY** STANDARDS/RECOMMENDATIONS, IE API2000, ISO28300 AND
- IMPROVES PRODUCTION EFFICIENCY AND QUALITY OF MEDIA THROUGH IMPROVED SEALING
- EXTENDS LONGEVITY OF STORAGE TANK AND SURROUNDING
- CONTRIBUTES TOWARDS ISO14001 ENVIRONMENT FOR CONTINUAL IMPROVEMENT

"KEEPING THE TANK STORAGE INDUSTRY SAFE, COMPLIANT AND PROFITABLE"



www.assentech.co.uk

info@assentech.co.uk

assentech

Manage your assets with RFID

ajor operations involve hundreds or thousands of different assets and it's easy for valuable equipment to be misplaced or lost. Taking inventory of your assets is a time-consuming and sometimes inaccurate process. That's where RFID Asset Management comes in. With all of your assets monitored by RFID tags and readers, you can know exactly what equipment you have available in real-time. That information helps prevent losses and helps you make informed business decisions. But the benefits don't stop there.



With RFID, you can track not only the location of the asset, but also its condition. RFID tags enable you to instantly see when equipment was last inspected and when it's due another inspection or to be replaced. This reduces downtime because you can repair or replace important equipment at the right time.

If you have valuable fixed assets and are having trouble keeping track of them, an RFID asset management solution can not only save you time with manual tracking, but also save you money by

reducing lost assets and improving maintenance.

RFID Asset Management is suitable for large or small businesses, with flexible monthly plans available.

Ready to get started with RFID asset management? Contact TEC-RFID for a free consultation and online demo.

T 0844 870 7873 info@tec-rfid.co.uk www.tec-rfid.co.uk

Dance, Stage & Event Floors

The world performs on Harlequin Floors





arlequin is the world leader in advanced technology floors for the performing arts, entertainment and display.

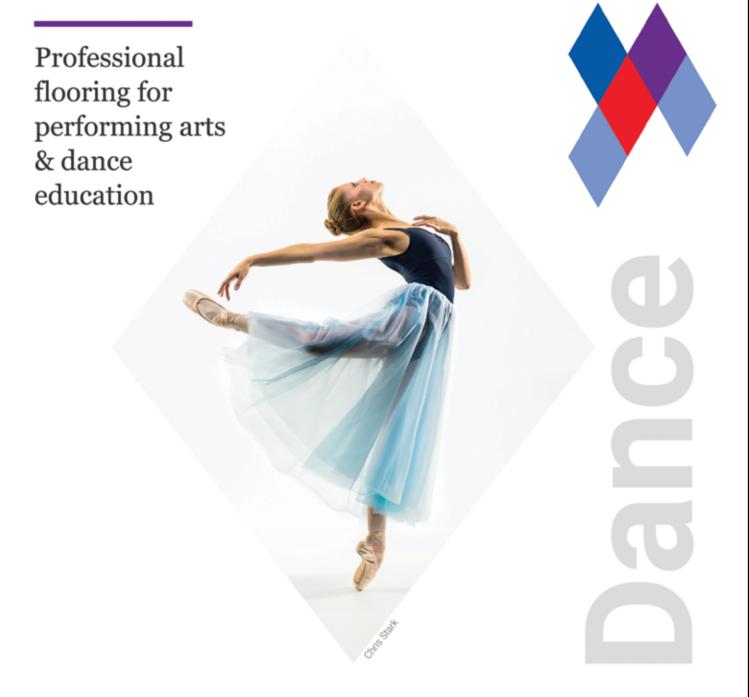
Established in the UK over 40 years ago, Harlequin remains the industry choice for the world's most prestigious dance and performing arts companies, theatres, venues and schools, production companies and global events.

The floor is a dancer's most important work tool; not only is it the canvas for their creativity, it also gives them protection against slips, falls and longer-term stress injuries. It is a common assumption that a well-designed sports floor will suit the needs of dancers, but this is not the case. There may be a temptation to specify floors for aesthetic or budget reasons, or to specify sports floors in the mistaken belief they will be suitable for dance but only a floor developed specifically for dance will do.

Harlequin's experience and reputation are founded on the design, manufacture, supply and installation of a range of high quality portable and permanent sprung and vinyl floors chosen by the world's leading venues – from the Royal Opera House to the Paris Opera Ballet to the New Zealand Ballet.

Harlequin is the global leader in its field with offices in Europe, the Americas and Asia Pacific.

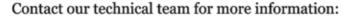
T +44 (0)1892 514888 enquiries@harlequinfloors.com https://uk.harlequinfloors.com/en



The world performs on Harlequin floors

Harlequin is the global leader in the manufacture, supply and installation of sprung and vinyl floors for dance and the performing arts and dance studio equipment. Established as the industry choice for architects, building contractors and the world's most prestigious dance and performing arts companies and schools.

For information about specifying the correct floor for dance and performing arts download our RIBA approved CPD online at www.harlequinfloors.com or via the RIBA CPD page.



+44 (0) 1892 514 888 education@harlequinfloors.com



LONDON • LUXEMBOURG • BERLIN • FORT WORTH • MADRID • PARIS • PHILADELPHIA • SYDNEY • HONG KONG • TOKYO • BRNO • LOS ANGELES



Your worldwide freight and logistics partner since 1870

Our mission, quite simply is to satisfy the international freight and supply chain needs of our clients. This has remained a constant ambition since our foundation in 1870.

We continue to take pride in providing a professional and award-winning portfolio of services that are reliable, time/cost-effective, and tailored to the unique requirements of our customers. As one of the first Customs - Authorised Economic Operators in Europe, our focus on service, compliance and supply chain security has been acknowledged as market-leading.

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.





Catering for all your freight needs www.daviesturner.com/specialist/rotherham-specialists T 01709 529709 | F 01709 529710 Email rotherhamsales@daviesturner.co.uk

Over 25 years of engineering excellence

LW 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

Shot Blasting

Soda Blasting

Powder Coating

Steel Framework

Interclamp

Please visit www.glwengineering.co.uk
Telephone 01945 464637 | Email info@glwengineering.co.uk

Automate Packaging with RG6 Grippers at Pluspack, Denmark

For several generations, Plus Pack has been at the head of the pack among producers of food packaging. The company has continually developed new products that are more or less environmentally friendly, having received several international awards for this work. And not only the green revolution, but also the working environment for their more than 200 employees is given high priority by the company. The working environment in particular is one of the reasons for focusing on automation. "It is used particularly where heavy and monotone tasks can be taken from the employees to be done by collaborative robots," says strategic Project Manager, Bastian Fietj, "The work station where we use the gripping arm from OnRobot replaces a packaging process where the operator used to work manually on stacking products on top of each other, pressing out the air between them. The manual process required a lot of repeated heavy lifting and a lot of stress on the shoulders. We have removed this physical strain from the employees." he says.

collaborative robots is the working environment. Another reason is productivity, which becomes very flexible by using gripping arms from OnRobot, says Bastian Fietle, "We manufacture alot of different products, and we have alot of different customers, for whom we manufacture customised packaging solutions. For this reason, we are always trying to optimise the products and the packaging process for each customer, which is something OnRobot's End-of-Arm tools help us do."

If you are planning to automate your production, I would definitely recommend gripping arms from OnRobot, as they offer the flexibility to create customised solutions suitable for specific needs. This is something we have never seen from other suppliers of End-of-Arm tools, he said.

https://onrobot.com/en

Unproblematic solution

And certainly, there is no reason to wait before automating the production. At Plus Pack, the implementation of the End-of-Arm tool from OnRobot has been fast and unproblematic, says Project Manager Simon Laigaard, "In our opinion, the OnRobot gripping arm is easy to work with. By adjusting four screws, we can change the fingertips on the gripping arm, making it precisely suited for the individual product. If we had opted for building separate tools for each product, the cost would have been significantly higher than with this solution, where the gripping arm is easily adjustable."

"We ran some tests with the gripping arm in the lab, and the programming was done in a few days. After that, it took just 30 minutes to implement the gripping arm at full speed in the packaging line." he says.

A definite recommendation of

As stated, one of the reasons to use



D:PLOY the automate platform for collaborative applications



Zero programming and zero simulations to run your application

D:PLOY is industry's first automated platform for building, running, monitoring, and re-deploying collaborative applications. It automates the process of getting a robotic application up and running, allowing users to deploy applications directly on the manufacturing floor, with zero programming and zero simulations.

Automate your production easily

D:PLOY allows users to automate faster, easier and without risk. It addresses one of the industry's biggest challenges: The labor and robotic skills shortage.

How D:PLOY works

D:PLOY automatically detects most of the installed hardware components and generates

robot movements based on the obstacles and cell boundaries defined in the workspace offering a reduction in robot cell deployment time and complexity. For example, the initial deployment of a palletizing application drops from 40 to 4 hours, which corresponds to a time saving of 90%.

At the same time, D:PLOY offers the flexibility to quickly reimplement the application for new products or workpieces when production requirements change.

As an automated platform that works with all the leading robot brands D:PLOY can be applied to a variety of common applications such as CNC machine tending, palletizing, packaging or transferring.

https://onrobot.com/en



Please visit onrobot.com/en +45 53 53 57 37 | sales@onrobot.com

WE ARE EXHIBITING AT NEW BARAS EXHIBITION AUTOMATIONUK Visit us at Booth B16

UNISIG's approach to Automating Surgical Instrument Manufacturing

Photos: UNISIG

DEEP HOLE DRILLING SYSTEMS

s 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 deephole 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 vison 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.





Gundrilling and BTA deep hole drilling for highly productive shops.

Whether your shop needs on-center or off-center holes, specialized job shop work or fully automated production, UNISIG has a deep hole drilling solution with the accuracy and performance you need.

Take your shop's production further - learn more at UNISIG.COM.

Machines • Tools • Automation

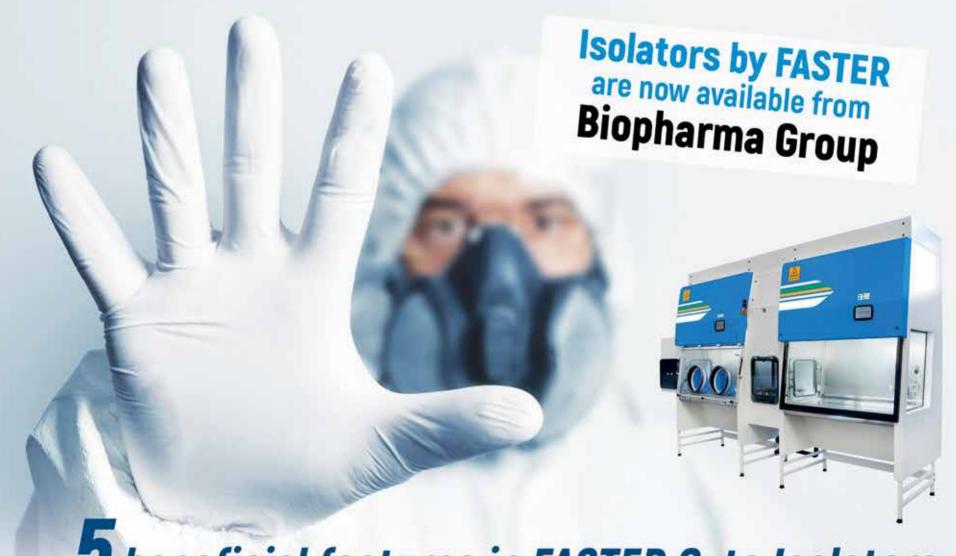
UNISIG machines, engineered and manufactured in the USA











- 5 beneficial features in FASTER Cyto Isolators
 - 1 GRADE A AIR QUALITY (UNI-DIRECTIONAL LAMINAR FLOW)
 AS PER EU-GMP GUIDE WITHIN THE ENTIRE WORK ZONE
- 2 HIGH AIR-CHANGE RATE WITHIN THE WORK ZONE AND TRANSFER HATCHES FOR RAPID CLEAN UP OF CONTAMINATED AIR
 - 3 NEGATIVE OPERATING PRESSURE (-75 PA) WITH LAMINAR AIRFLOW AND ACTIVELY REGULATED BLOWERS
 - 4 AUTOMATIC PRESSURE DECAY (VIA OPTIONAL ATV VALVE) WITH RESULTS OF THE TEST STORED IN THE ISOLATOR BACK UP
 - 5 ABILITY TO SET AUDIO VISUAL ALARMS FOR MANY AIR RELATED ISSUES INCLUDING EXHAUST DUCT BLOCKAGE





Discover more, contact a specialist today www.fasterair.co.uk



EFFICIENT | SCALABLE | ROBUST

Biopharma Group Exclusively Offers

PRODUCTION SCALE FREEZE DRYERS & PROCESSING LINE SOLUTIONS

by SP i-Dositecno

across the UK, Ireland and France

Our freeze drying solutions are used extensively in the field of tissue engineering, biomaterials, and wound management/collagen scaffold production

From small scale benchtop R&D to large throughput production, we have a freeze drying model that will meet your process needs and be perfect for ISO 13485 environments





CONTACT A PRODUCT SPECIALIST www.biopharma.co.uk

'The Health Professional in Court': 10 principles for practice

or this month's feature article, we interviewed someone who is acknowledged as one of the world's top surgical coaches and an international authority in medico legal

Mr Rodney Peyton, OBE MD is a Trauma Surgeon who has the unique distinction of holding Fellowships in all four Royal Colleges of Surgeons in the UK and Ireland as well as being a Fellow of the Royal College of Physicians in London. He holds a master's degree in medical education from Cardiff University and graduated in law from the College of Law in

In his career spanning 40 years, he has been engaged in over 70,000 personal injury cases as well as being asked to advise on more than 3,000 cases involving medical malpractice.

He therefore has a wealth of experience in preparing cases for and giving expert testimony in Court and has been involved in the training of doctors and lawyers in dealing with medico legal cases, individually on a face-to-face basis, and also as a trainer and keynote speaker.

In this article, he will cover his 10 top strategies to help health professional's deal with the Court

He is also a well-known author and international keynote speaker. For his availability to speak at your corporate events, contact him at: rpeyton@rpeyton.com.

Increasingly, senior professionals from all branches of the healthcare industry are finding themselves involved in the Court system, either on an involuntary basis, as a witness to fact or defendant, or on a voluntary basis as an expert

Gone is the paternalism of 'the professional knows best' and there has been more and more scrutiny by the public of professional actions and attitudes.

Leaving aside the criminal law, which is an entirely different situation, civil legal cases are predicated on the fact that within every profession, or branch of profession, there exists a range of opinions as to what constitutes good practice. Defendants and expert witnesses are expected to provide opinions, witnesses to fact are not.

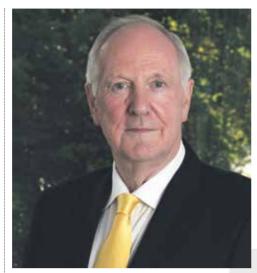
It is important to understand that, while judges are highly trained and experienced in the interpretation of the law, they and the barristers or trial lawyers who argue cases are nevertheless lay people when it comes to the healthcare professions. They are not medical experts and therefore require help in understanding the medical evidence before them. For the health professional, whether as defendant or expert witness, the duty is to assist the Court in their decision-making whilst at the same time maintaining and promoting their own professional integrity and reputation.

Most healthcare professionals rarely appear in Court. From personal experience as a teacher and trainer to those who do become involved, there are recurrent themes, which arise and so the following 10 principles have been developed to help guide professionals through

Record keeping

Keep detailed contemporaneous records

Any major findings or decisions, whether it be from working with a patient, a client or undertaking a project, should be on record, as one never knows when such



events may become the object of scrutiny. There is an old saying, 'if it is not written down, it did not happen and oral evidence is likely to be regarded as weak and suspect unless there is written evidence to back it up. A little extra time spent in ensuring accurate, contemporaneous recording may save considerable time, effort and indeed stress at a later stage when trying to convince a Court that decision making was sound. Remember, all written communications are discoverable and may be used in Court proceedings. Therefore, it is important not to make any gratuitous comments within the

When acting as an expert witness, always look for original, contemporaneous documentation to back up later oral recall of events. Stick to the facts as presented and derive opinions from them.

Producing a report

Reports should be timely, factually based and the opinions well-reasoned, taking full account of appropriate

When producing a report, clarify whether you are acting as a professional or as an expert and keep the distinction between the two. As a defendant, you will be required to explain your position. It is important you outline any reasonable range of opinion, which informed your decision-making and actions, stating why your own should be preferred, 'defence being the best form of attack.

Being a witness to fact is a requirement rather than a choice. If you have been directly involved, provide evidence under clinical findings, observations and actions. Limit evidence to that which has been recorded and remember not to venture opinions or speculate

An expert witness's function is to help the Court by virtue of their knowledge, training and experience within their professional field of expertise. Reports must not intentionally mislead and any omission of relevant information reveals prejudice, whether acting as a professional or an expert witness. All opinions proffered must be logical, based on recognised clinical evidence and guidelines to include the appropriate standard of care, being clear what was relevant at the time of the incident. Always anticipate counter arguments, addressing them within the body of the report wherever possible and be alert to the potential for your own professional bias. Expert witness reports must be and must be seen to be

Do not revise your report unless you have been subsequently provided with new facts, which need to be

taken into account, at which time you must explain why these have made a material difference to the previous conclusions.

Attendance at Court

Always present as professional and

First impressions count. This includes dressing appropriately for the Court and ensuring you have all your papers with you, particularly when actually giving evidence.

Make sure you take time to prepare thoroughly, highlighting any relevant areas in your report and those of others for ease of reference. Make sure you have taken time to think out potential questions or possible iments which may be raised and know your reasoning behind everything you are going to

Court procedure

Be aware of the Court procedure in whichever jurisdiction you attend, while you may be senior in your branch of the health care profession, unless you are highly experienced in Court practice, you are relatively junior in relation to the Court process. This is particularly pertinent for witnesses to fact who may be unfamiliar with legal

An expert is engaged because of expertise in a particular subject and must, not only keep up to date in their own field, but also be cognisant of the requirements of the Court process. They are there to represent their point of view and assist the legal process.

It is important they do not come across as overbearing, as they are, in fact, servant/leaders, tasked with educating the Court and therefore must understand what is required from the Court's point of view.

Constantly strive to improve your presentation skills, for example by giving talks on medico legal issues, so that you are used to standing up and delivering legal points in relation to medical cases

Duty to the Court

Your professional duty as an expert or a witness to fact is always to the Court, no matter who engages you or why you have been called to attend.

This responsibility must be taken seriously. The role is to help litigants, their lawyers and the Court better understand the nature of medical evidence in individual cases so they can come to reasonable decisions. In this context, it is important they are helped to understand what acceptable practice was at the relevant time.

Health professionals do not have immunity when giving evidence. Not having this protection has unfortunately meant that some have been at the receiving end of severe public criticism, up to and including the award of costs against them and even a custodial sentence when the Judge considered that, by acts of omission or commission, the Court had been misled. This can have severe implications on personal, professional and financial standing.

Range of opinion

Always acknowledge there may be a range of reasonably held opinions.

In this context also consider possibility vs probability 'more likely than not.' If a matter comes to Court, there is going to be an opposing view from another professional expert who does not fully, if at all, agree with your opinion. Therefore, it is important to cover counter arguments in your considered opinion, which adds to the credibility of the report. The report must contain logical reasoning for accepting or rejecting other opinions and include any references, which are to be relied upon.

Guard against emotional statements and hyperbole and never denigrate others. Very rarely is 'in my experience' relevant in Court unless it is thoroughly backed up by objective evidence.

Credibility

Experts must stay within their field of expertise when giving opinions. They should have a bespoke CV for each case, indicating why they are a reliable expert for the matters at hand. It is in the nature of the Court process that opposing lawyers will try to diminish your credibility and it is wise to have answers for the three questions, which almost every barrister/trial lawyer will utilise at the beginning of an examination.

Do you know your duty to the Court, including your knowledge of relevant legal tests? Are you an expert on all points on which you are giving an opinion? Is there a range of opinion, which reasonable and respectable doctors may hold?



Ensure you are clear on your answers before getting into the witness box. This is all about credibility and as far as possible stay away from arguing about legal, technical

Giving evidence

There are three types of oral examination for all types of witnesses, the evidence-in-chief, cross-examination and

For Evidence-in-chief, your barrister or trial lawyer will lead you through your report and highlight any specific points relevant to the case. Cross-examination by opposing counsel looks at those points in detail, helping the Court assess credibility and ascertain whether there are in fact other opinions, which are equally valid. Do not get into an argument with the barrister or trial lawyer who is questioning you. Expect to be put under pressure during cross-examination but resist being provoked. Keep calm and answer to the bench. If you feel that your answers are being cut short unreasonably, ask the Judge if you may expand and follow their direction, always coming across as reasonable and professional. After answering the Judge or presiding officer then look back to the barrister or trial lawyer for the next question.

If you are given new information, which you did not have before then say so and, unless the answer is obvious, do not give a knee jerk reaction but ask for time to think it out. If it is not in your field say so and be careful of your own personal bias, again clearly separating fact and opinion. All your reasoning must stand up to logical

Re-examination is led by the instructing party to clarify issues, which have been raised during cross-examination. This phase is usually fairly short and rarely are any new

Keep it simple

Keep all your evidence as simple as possible.

Remember, although the Court consists of lay people, they have considerable expertise and experience in handling different kinds of evidence. Take time to explain the issues at hand in jargon free, transparent terms, the more so if it happens to be a jury trial. Speak slowly, follow the Judge and his/her speed of writing or typing as they will be keeping a record of the proceedings.

Reflection

Reflect on the outcome

After the verdict, as an expert do not take anything personally and learn what you need to learn. Similarly, as a witness to fact.

Think over what transpired and take time to reflect on what went well and what could you have possibly done better, or at least differently. As Stuart Emery states, 'The path to mastery in any subject is to correct, not protect.'

Be open and honest with yourself and always seek to improve your practice as well as in the reporting and delivery of your evidence.

Once you have done so, move on. Civil Courts are not saying you are right or wrong in general terms, they are saying they prefer one set of evidence over another and it is only in the balance of probabilities.

Whether as defendant, witness to fact or expert witness, the process in civil litigation is the same

By gaining an understanding and some familiarity with the process, practitioners can develop both confidence and competence in their role of presenting evidence. As an expert, the more often you appear in Court the more competence you gain and therefore the more confident you become.

Healthcare professionals are required ethically and by their professional bodies to continually update their practice, knowing why they do what they do in the way they do it, ensuring practice is evidence-based. However expert you are, you must not become complacent in either your practice or in Court.

Finally, all witnesses must remain neutral, explain the range of opinions, and be aware of their own potential for selective bias in any evidence presented. Courts are reliant on credible, impartial and articulate healthcare professionals and presenting as such impacts greatly on personal, professional and financial standing.

T +44 (0)28 8772 4177 F +44 (0)28 8772 7134 info@rpeyton.com www.rpeyton.com

MR. J.W. RODNEY PEYTON OBE MD

An Epitome for Experts in the Medico-legal Industry

Adignified professions around the world. The relationship between the doctor and the patient stands on pillars such as trust, confidence, and hope. However, like several other industries, commercialization has largely impacted the medical profession and services as well. Today, there is increasing anxiety both within the medical profession and in society regarding the constantly increasing trends of complaints and lawsuits against physicians.

It is imperative for doctors to be aware of the legal aspects linked to their profession and take precautionary measures to protect themselves and their patients from legal traps. The knowledge of medico-legal issues has become as fundamental to the practice of medicine as clinical skills.

Thus, experts in the field of medico-legal services are in demand presently. While several new leaders have been emerging in recent years, veterans like Mr. J.W. Rodney Peyton OBE MD are still regarded as one of the prominent leaders in the medico-legal sector.

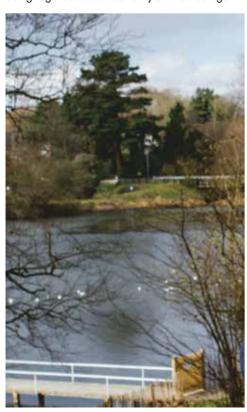
A Distinguished Career spanning Over Three Decades

A Consultant Trauma Surgeon by profession, Mr. Peyton has been driven by a desire to improve surgical practice and ensure better outcomes for patients—throughout his eminent career spanning four decades. He has served as the Head of Faculty Development and Examiner Training for the Royal College of Surgeons of London and has been at the forefront of innovation in the delivery of teaching and healthcare.

Widely regarded as the World's #1 surgical coach, Mr. Peyton has received numerous recognitions. He has received the Werner Korte Gold Medal for services to German Surgical Education in 2002. Moreover, he was bestowed with the Medal of the Swedish Surgical Society for his services to medical education in 2005.

He is also a law graduate and has been involved in medico- legal reporting and court appearances as an expert witness since 1983. He is also a founding member of the Expert Witness Institute and has played an important role in providing an independent expert opinion in cases of potential medical negligence. He has been reported over 70,000 personal injury cases as well as being asked to advise in more than 3,000 cases of potential medical malpractice.

Mr. Peyton's prowess in the medico-legal domain, blended with his avid experience in both military and civilian trauma has been instrumental in him being regarded as an authority on medico-legal



issues. He has been actively involved in training doctors and lawyers in dealing with medico-legal cases—both individually and in professional groups, also as a trainer and keynote speaker. In a conversation with Mirror Review, Mr. Peyton shed light upon what it is like to be a medico-legal expert in today's world and shared some invaluable insights that would help those aspiring to step into the industry.

A Satisfying Intellectual Exercise

Preparing medico-legal reports—according to Mr. Peyton—is a very satisfying intellectual exercise, particularly regarding malpractice, and is one of the best ways of keeping up to date in his field of expertise. "Each case is unique with many twists and turns. Having to think out the pros and cons in any given range of opinions allows the expert to become even more secure in their own practice which can only be for the benefit of patients," affirms Mr. Peyton.

According to him, the best way to learn anything is to teach it. In this case, barristers/ trial lawyers will ask detailed, probing questions to gain a full understanding—requiring the teacher/expert to more clearly understand their own practice and personal biases as they consider legitimate differences of opinion.

Stay Relevant, Neutral, and Clear

As Head of Peyton Medico-legal Services, Mr. Peyton's philosophy is that the objective is to assist those in litigation including the clients, their legal advisers, and the court to clearly understand the nature of medical evidence in individual cases so they can make informed decisions. It is the court's jurisdiction to determine facts under dispute in a case, and the expert opinion guides the court in its deliberations.

While the judges are highly trained and experienced in the interpretation of the law, they—alongside the barristers and trial lawyers—are not the experts when it comes to healthcare professions. They need help in understanding the medical evidence before them. Thus, the expert must assist the court in decision-making. According to Mr. Peyton, any expert must stay relevant in their profession, remain neutral throughout no matter who is responsible for their fees, and must clearly understand their paramount duty is to the court.

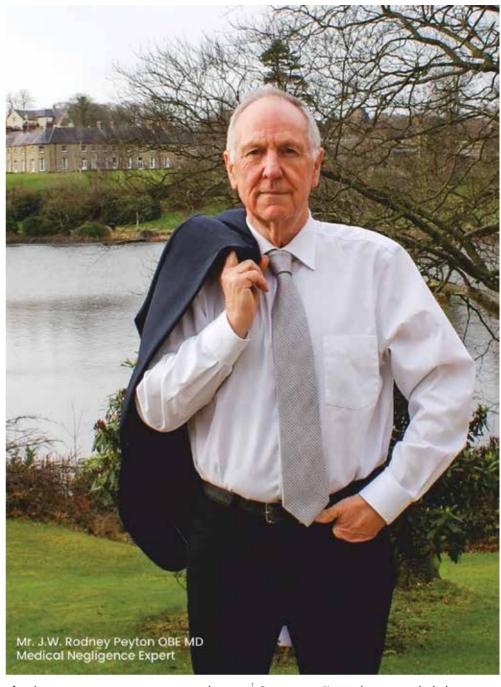
Mr. Peyton further mentions it is important to remember innovation in the legal profession is slow and steady. When in the witness box, an expert must not display innovative behaviors in terms of thoughts about managing cases. As the courts are looking for a fair degree of certainty, all the arguments have to be clear, logical, and well-thought-out. "In this case, experts must acknowledge there always exists a range of opinion and clearly annunciate with an evidential base as to why their opinion should be preferred," he advises.

Furthermore, an expert having personal prejudices or inclinations can sometimes cause confusion and trust issues. Mr. Peyton, however, believes having a personal bias towards a particular method of treatment is not an issue if the preference is transparent and the expert can demonstrate they are prepared to consider and discuss the viability of other options. According to him, experts require the flexibility of mind to review their opinion if compelling evidence to the contrary becomes available.

Determining the Probability of Success

In recent years, medical negligence/malpractice has become one of the major growth areas in medico-legal practice. However, figures from defense organizations suggest that only a few actions actually succeed with a vast majority failing based on causation. As subsequence is not the same as consequence, Mr. Peyton believes that it is important to determine at an early stage the probability of a case to succeed.

To help offset the escalating costs of litigation, Peyton Medico-legal has introduced a provision



of preliminary screening reports to ensure that the elements of duty, breach, and consequential damage are likely to be in place before commissioning other more costly specialist reports. This keeps down the costs for clients and their legal advisors as well as enables lawyers to manage clients' expectations at an early stage at a minimal cost.

"Lack of Professionalism will not be tolerated..."

Mr. Peyton believes that being an expert witness has become more professionalized now than it was when he started. He mentions that courts have tightened up concerning their expectation of witnesses and, of particular importance, has been the loss of immunity from liability for those giving evidence. "Overall, I think this has been for the better. There still tends to be a lot of exaggeration, if not outright fraud, inflicted within the claims industry," he asserts.

The business environment in personal injury cases—with an added emphasis on financial compensation—can induce a tendency to discard facts for portraying the claimant's case in the best way possible. Unfortunately, this has been enabled by some medical practitioners who fail to understand their duty is towards the court and not to those instructing them. This can lead to the defamation of professional medico-legal experts and can have a severe impact on their personal, professional, and financial well-being. Mr. Peyton adds, "The message is clear. Such a lack of professionalism will no longer be tolerated."

Why do Medical Mistakes Occur?

Alongside a lack of professionalism, there are several other mistakes medico-legal experts make. Expressing his views on those mistakes, Mr. Peyton says, "It is in the way in which decisions are made." According to him, there are three primary types of logical reasoning—deductive, inductive, and abductive. Deductive argues from the general to the specific and if the generality is correct, then the specific is correct. "For instance, if I have a jar of white marbles and I take the marbles from the jar, then those marbles are liable to be white. In court terms, this is the doctrine of res ipsa loquitur," he adds.

Inductive logic, on the other hand, starts from the specific and works back to the general. Mr. Peyton illustrates, "If I have five white marbles in my hand and they came from a specific jar, then all marbles in the jar are liable to be white." This, however, may not be true and is the basis of the null hypothesis in statistical research. Thus, papers that states results "nearly reached significance" have to be handled diligently. They either reached significance or they didn't and the problem in the law is arguing with a specific bias and producing only evidence that equates to one side of the argument

At last comes the abductive reasoning. "For instance, if I have white marbles in my hand and there are white marbles in the jar, then the marbles in my hand came from the jar," states Mr. Peyton. This is a big step and is one of the major causes of medical mistakes where a set of symptoms are assumed to indicate a particular disease process. "This is a cognitive bias where alternatives are not even considered in spite of evidence to the contrary," he adds.

For more information or any queries on Medico-Legal issues, please visit: www.rpeyton.com to schedule a complimentary consultation