

ISSUE 682 • January 2025

INDUSTRIAL

SOLUTIONS UK

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NEW UNISIG OPERATING SYSTEM STREAMLINES THE HUMAN-ROBOT INTERFACE

Representing a **leap forward** in programming, UNISIG's next-generation operating system further improves the human-robot interface and slashes programming times
see 12-14

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Hello & Welcome to Issue 682 of Industrial Solutions UK!

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

We have searched the length and breadth of the UK to bring you some of the most ground-breaking innovations and this month, we are overjoyed to be highlighting the activities of UNISIG and CML Innovative Technologies.

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

Secondly, we are featuring CML Innovative Technologies with the **'Lighting Technology Company of the Year Award 2025'** profile following their impressive performance over the years. **For more information, turn to page 3.**

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!

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

For more information or format requirements, please see our **Media Pack**.

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CML

INNOVATIVE TECHNOLOGIES

WHERE INNOVATION COMES TO LIGHT

A Grupo Antolin Company

A beacon of excellence in lighting solutions and manufacturing

In this issue of Industrial Solutions, we are delighted to feature CML Innovative Technologies as our **Lighting Technology Company of the Year**

Over the past decade, the United Kingdom has experienced a marked decline in its manufacturing sector, signaling a significant shift in the nation's economic landscape. Despite recent challenges, including global disruptions, there remain numerous reasons to stay optimistic about the country's future.

CML IT has been designing and manufacturing lighting components and systems for over 90 years. It offers a wealth of experience in all types of lighting technologies in combination with advanced design capabilities. Its in-house test facilities and quality systems allow them to develop high quality solutions for a wide range of industries including Automotive, Medical and Aerospace Railroad, as well as general industry applications such as electrical control panels.

Its 3D CAD system incorporates highly advanced, interactive optical simulation software. This allows their Design Engineers to design, analyse, modify and optimise within a single CAD environment. Electronic designs are simulated prior to PCB design and layout. CML IT has extensive experience of designing LED driver circuits including microcontroller control of advanced functions such as dimming and colour mixing. Many of their designs have undergone rigorous EMC testing for use in the aerospace sector.

CML IT has been working with light since 1931, and is the leading manufacturer of LED signal lamps for all industrial applications. As a market leader in its field, CML IT was one of the first companies to introduce LED lamps and now has one of the broadest ranges of miniature lighting products in the world.

Based in Bury St Edmunds in Suffolk, the company prides itself on offering a variety of tailor-made solutions due to its state-of-the-art manufacturing capability.

"In 2004, the company became CML IT and continued to grow, establishing its share of the market with two factories in Guangzhou, China, and Sibiu, Romania. While CML IT remains located in Bury St Edmunds, the group was acquired by Spain's Grupo Antolin, which employs 28,000 people globally."

"For the transportation sector, our new BA15 Railway Carriage Replacement LED Lamps are available across the rail industry as reading/table illumination lamps. The lamps are low-powered and offer cost-effective energy savings, at a time when energy prices remain a challenge. The LED replacement is compliant



with EN 45545-2 to R24, HL1-HL2 and certified to BS EN IEC 55015:2019+A11:2020. With an estimated 30,000 hour life span and plug n' play features, with no polarity, these lamps offer value for money, powerful light spread and product longevity," explained Roger Neal, Commercial Manager.

From lamps for signalisation, panel mount indicators, LEDs, LED displays, medical lamps, and aviation lamps, CML IT provides an extensive range of products, alongside ongoing customised projects. Moreover, its manufacturing facilities are primed to meet the growing global demand across all customer markets, with the capacity for bespoke solutions.

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

"Nothing is impossible for us. We produce to customer demand working with customers, and have done work for individual airlines and collaborated with their design division to manufacture LED replacements for incandescent lamps. There is a cockpit lamp, which we have produced for years, and there can be up to 1,200 different pieces per aircraft of that particular type. Our possibilities are endless," added Roger.

With supply chains globally likely to face further uncertainty and undoubtedly pressurised with continued increases in costs of freight and distribution during 2025, there is once again a visible push to re shore or close sure manufacture or source product

where possible. CML IT is dedicated to collaborating closely with its authorised distribution partners to maintain appropriate stock levels. CML IT works hand-in-hand with its direct customers, including their planning and scheduling departments, to ensure a reliable supply chain and safeguard production lines from any risk of disruption.

After a highly successful year of New Product Introduction in 2024, the next 12 months looks set to be another bumper year of innovation with high levels of expectation and saturation of product release. A new range of highly durable and well tested panel indicators with an expected release of some 260 SKUs have been initiated for high performance, sealed both front facing as well as the rear to achieve an IP67 standard. Withstanding high vibration and manufactured from a high grade of stainless-steel helps make them ideal in demanding application areas such as construction, military, marine environments and also opening up new application possibilities including the ever-growing food processing industry.

The new product introductions to be offered complement the existing product ranges perfectly. The general ranges allow for many customisation possibilities such as sealing arrangements, harness and cable options, wires and colour options, and finishes of bezels, bespoke part numbering and marking options, and of course, the options of colour illumination. CML IT's commitment to customisation has proven extremely popular and is another area of continued focus going forward.

Partnering with CML IT means choosing a company that combines technical expertise, innovative solutions, and a strong commitment to quality and customer satisfaction. CML IT ensures that its products comply with international standards and regulations as well as adherence to compliance guaranteeing safety, performance, and reliability of all LED products.

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



CMServices Global Ltd: At the heart of Industry 5.0

For many industries, whilst Industry 4.0 is still dominating with advancements in automation, smart systems, robotics, big data analytics, AI, machine learning and of course, the Internet of Things (IoT), the focus for others is already on Industry 5.0. Defined by the European Union as 'placing the wellbeing of the worker at the centre of the production process and using new technologies to provide prosperity beyond jobs and growth while respecting the production limits of the planet.' In short, we are shifting from economic values to societal ones and embracing sustainability.

Condition monitoring is an important aspect of both Industry 4.0 and 5.0 through the real-time tracking of machine functionality but with the added bonus of predictive maintenance and remote diagnostics across a whole system.

AI now brings automated processing with faultless accuracy, through seamless analysis of huge chunks of data in real-time and identifying patterns proactively, before a problem arises, such as pump cavitation. This

importantly allows on-site engineers to schedule checks and repairs before a more costly machine failure or malfunction occurs, later down the line, contributing to the five Rs of the circular economy: reduce, reuse, repair, refurbish and recycle.

CMServices Global Ltd is a market-leading consultancy, offering AI condition monitoring to diverse sectors from marine and offshore, automotive, manufacturing, food and beverage, postal sorting through to chemical, oil and gas. For decades, the annual scheduling of manual maintenance has been standard practice but with the advent of AI monitoring, irregularities can be identified through early warning prevention: smart analysis of sensor data and the comparison to standard historical data.

The Maintenance in Balance (MiB) software service from CMServices Global Ltd brings Machine Learning and AI together to provide diagnostic support for assets, through condition monitoring techniques that identify irregularities and provide further diagnostic guidance.

The MiB asset condition assessment software provides a cutting-edge, integrated platform for foresighted ship machinery maintenance and furthermore, drastically reduces inspection and maintenance costs, up to £500 thousand per ship annually. Predictive fault monitoring can decrease ship downtime from 7 to 1.5 days. With existing shipping delays due to geopolitical



conditions in the Red Sea and Panama Canal, this is welcome news for the shipping industry.

That's not all: MiB helps shipping vessels meet compliant seaworthy regulations, giving quality assurance across the board. The real genius of MiB is it supplies an extra layer of real-time prescriptive maintenance outputs, based on accurate condition and systems performance data and provides next-level operational performance across safety, regulatory, environmental and business areas.

With rising costs, the annual lifecycle costs of operating one ship amounts to a staggering £60 million and a third of the annual budget is spent on repair and maintenance, to keep ships buoyant and operational. Research has found that as much as 60% of all maintenance is in fact wholly unnecessary and can even cause more issues going forward.

It's no wonder then that MiB is in demand and when we spoke to Simon, he said CMServices Global Ltd was committed to 'eight separate current pilot projects' across cruise liners, container ships and oil and gas industries, alongside a tender process in power generation for three in Europe and two in the UK.

For more information on MiB and other services, across any sector, please see the website below:
T +44 (0)7422 079140
<https://cmservicesglobal.com>



MAINTENANCE IN BALANCE, THE ONLY SOFTWARE YOU'LL EVER NEED!

MiB is a product/service that builds in diagnostic support for multiple assets via Machine Learning and Artificial Intelligence.

MiB incorporates the diagnostic knowledge of expert diagnosticians in the conventions of mature condition monitoring techniques and aligns this with AI functionality to identify true outliers and then offer meaningful diagnostic advice.

As more assets are managed remotely and fewer onboard personnel are sufficiently experienced to deal with all scenarios, it is becoming clear that a marriage of technology and experience is needed to balance the equation.

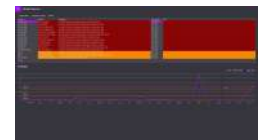
Objectives

Using our asset condition assessment software MiB, we will create an integrated software platform for undertaking prescriptive maintenance on your ship's machinery, structures, and auxiliary systems. This will be achieved by using data from existing condition monitoring, diagnostic sensors and systems, the implementation of advanced predictive analytics and the integration of a maintenance actions/prescription database.

Based upon advanced, artificial intelligence (AI) and deep learning algorithms MiB will prescribe, the most appropriate maintenance strategy in real-time for every asset under its control, based on the subtle but pre-alarm indications of emerging faults that will occur at a future time.

Specific objectives of MiB are to:

- Establish the monitoring and maintenance needs of each vessel
- Specify the software platform parameters based on each vessel's requirements
- Deploy our intelligent monitoring software module
- Integrate the module into the MiB platform and provide routine updates to the crew



[View the MiB interview on YouTube](#)

Please visit: maintenance-in-balance.com or contact UK: +44 (0)7422 079140 or Baltic: +370 (8)652 99978

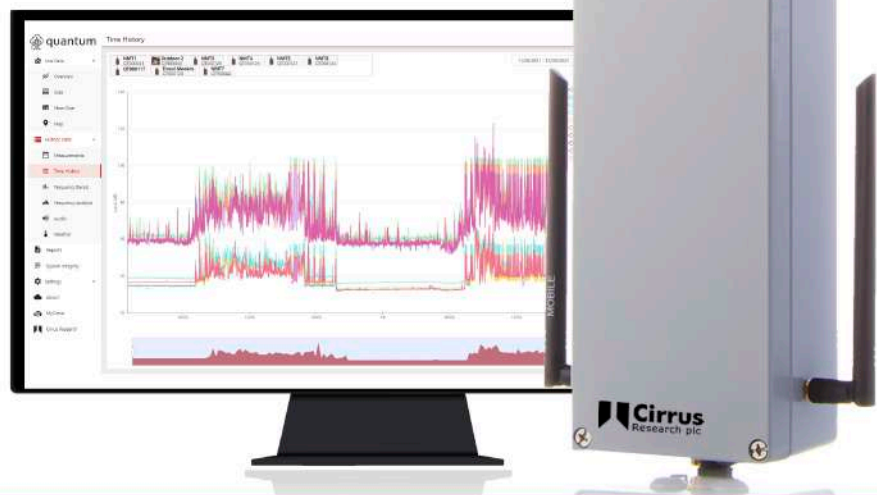
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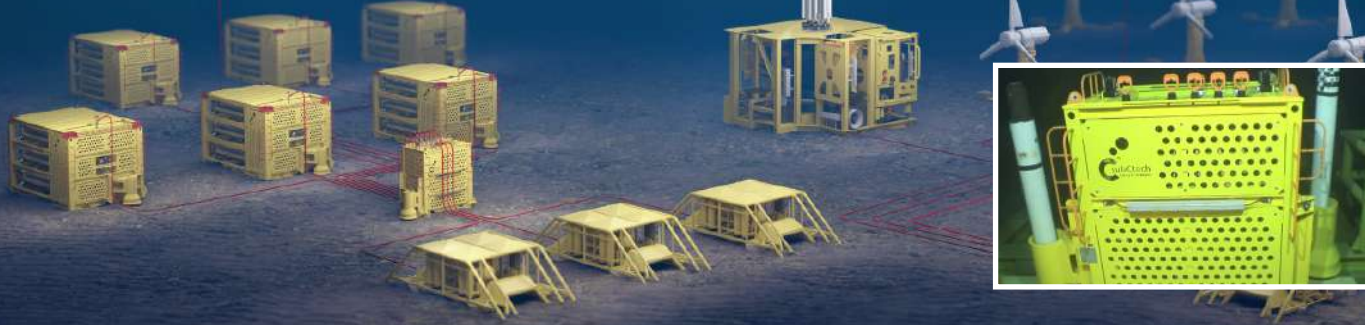
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Innovative Technologies and Sustainable Measurement Strategies for the Marine Environment



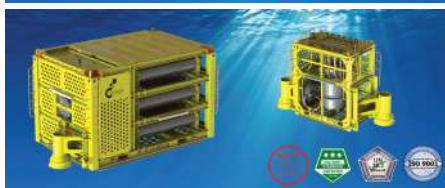
In this issue of Industrial Solutions, we are happy to feature award-winning SubCtech (Subsea Technologies for the Marine Environment) a leading manufacturer of underwater technologies for its Commitment to Excellence in Ocean Power and Monitoring Systems.

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

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

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

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



Supply (UPS) and are perfect for marine and offshore technology applications, offering next-level capacity.

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

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

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

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

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

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

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

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

"Our latest innovation, the Subsea 2 MWh Energy Storage System has now successfully passed its final field-testing stage: the system has been commissioned and tested in situ and, therefore, has already reached the Technology Readiness Level 6 (TRL 6), according to API17Q, which exemplifies our commitment to high standards."

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

For more information, please see the website below:
T +49 (0)431 220 39880
info@subctech.com
www.subctech.com

Ocean Power

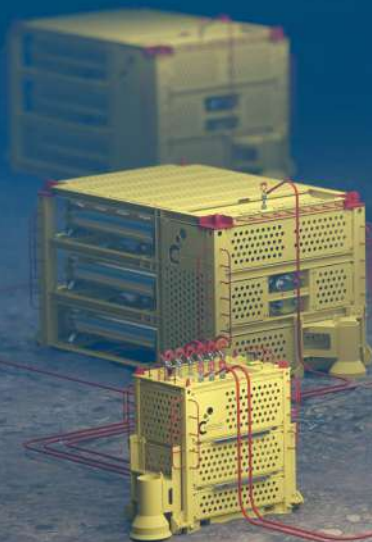
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Machinery Supplies UK Ltd

Leading laser welding and laser cleaning technology

Laser welding machines are used to join thin metal sheets with minimum heat input and the joining of differing metals, offering precision advantages for intricate designs and delicate materials.

During 2023, the global laser welding machine market grew exponentially to \$1.32 billion from \$1.26 billion the year before, with a projected growth of \$1.55 billion by 2027. Europe has seen the biggest share of the market, closely followed by growing interest across the Asia-Pacific region.

There is increasing global demand for fabricated metal products in the renewable energy sector (wine turbine manufacturing), automotive (engine parts to injectors), aerospace, medical, electronics sectors (circuit boards, transistors and integrated circuits) and jewellery/the arts.

With a focus on the circular economy and Net Zero Targets, laser welding provides pinpoint accuracy, which means higher quality welds and less waste.

Spotlight on Machinery Supplies UK Ltd: Laser welding experts

Laser welding is a game-changer, offering welding up to four times faster than TIG welding, with significantly greater safety assurances due to reduced splatter and debris.

Established in 2020, Machinery Supplies UK Ltd was founded by Andy Naylor, who brings a wealth of industrial sheet metal experience spanning over 35 years. Based in East Yorkshire, Andy regularly travels to China to source the world's best laser welding machinery from high-end manufacturers to sell to clients in the UK, Europe, USA and Taiwan:

"Laser welding is the most advanced welding method on the market today. Its versatility makes it top choice across diverse applications and is often used in partnership with arc welding. The advantages are numerous from reduced heat, faster processing time, higher accuracy, minimised risk of thermal distortion and exceptional precision for delicate or thin materials."

"The benefits are even more far-reaching though: laser welding reduces carbon footprint, which in a world increasingly concerned with catastrophic



climate change, this is welcome news. They are also kind to your bank account too, with lower maintenance and operating costs," explains Andy.

Laser welding: The future is here

Laser welding is ten times faster than conventional welding, which is good news for capacity and high demand in sectors like wind turbine manufacturing. The new Labour Government has removed restrictions on on-shore wind turbine planning and plans to deliver 50GW of offshore wind by 2030. This translates to the building of 2,600 wind turbines at the cost of £48 million by 2030 alone. Due to its geographical location, the UK has more capacity for offshore wind power generation compared to any other country in the world, except China. Laser welding offers hugely advantageous benefits to welding across the wind turbine manufacturing sector, which in turn will transform the UK's renewable energy sector.

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We can provide all information on machinery requirements, have a full UK stock of spares and consumables, expert welding technician phone support and arrange delivery as required and our laser cleaning technology is second to none.

Our resident expert team of machine operators, software engineers and electronic & hydraulic

engineers are on hand to help match customers with the right machinery and parts, even if they aren't in stock.

We also have a selection of used laser machines available in various kW and size ranges with chiller, extraction, software and fully installed packages. This is a great addition to the circular economy, for those looking to invest in second-hand, reconditioned machinery, as part of sustainability best practice.

Laser cleaning technology

Laser cleaning technology is used in variety of applications, to remove rust, paint, oxide and other contaminant like graffiti – with no damage to materials, due to its eco-friendly properties. This is an industry game-changer that substitutes sand blasting and other ways of cleaning metals. Traditional industrial cleaning methods are labour-intensive and some paint removal by sandblasting has caused permanent damage to the metal beneath.

"Machinery Supplies UK Ltd offers two systems: CW (continuous waves) for higher power applications, with 1-3kW water-cooled three-phase 415V and Pulse Lasers: 50-300W air-cooled portable 240V. Both offer a most cost-effective solution that drastically reduces cleaning times and overall maintenance."

Endnote on Laser welding

Laser welding is used for welding components made from high-strength alloys in aerospace, creating precise joins in surgical instruments in medical science, is integral to wind turbine manufacturing and many more applications. It is transforming manufacturing, repair and design on a global scale.

The future is precision laser-focused for a cleaner, greener and brighter world.

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For more information, contact Andy Naylor on the details below:
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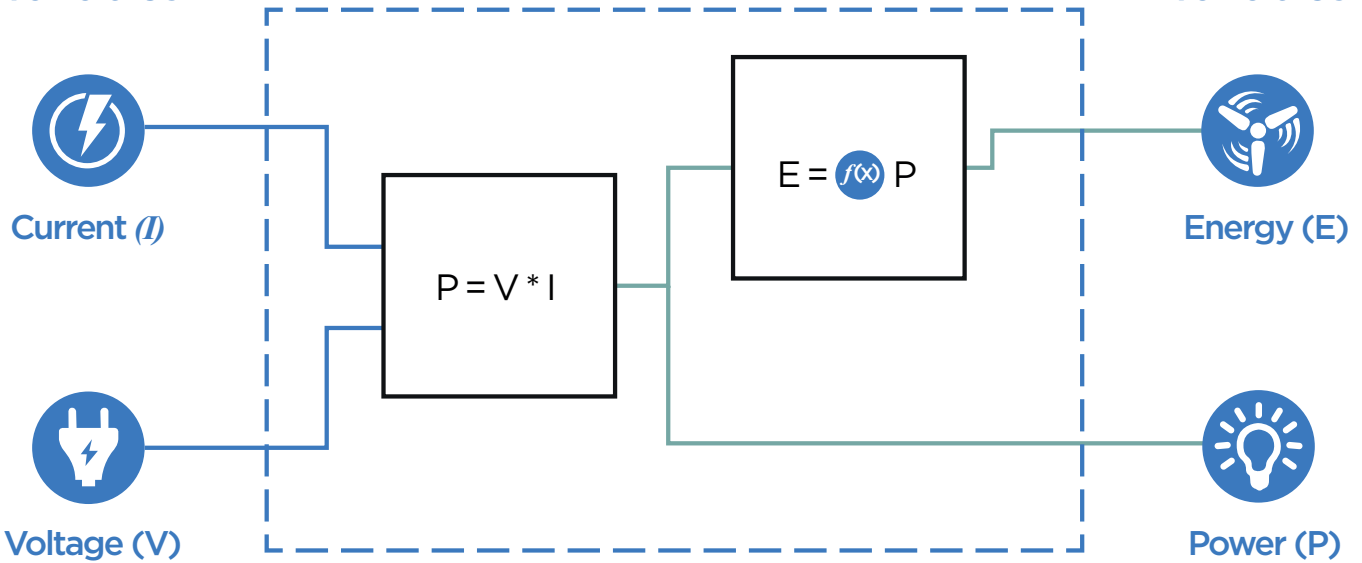


SEMOTA:

Sense, monitor, trigger, act

Synthetic Variables

Raw Variables



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BUILDING UPDATE

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Pandor

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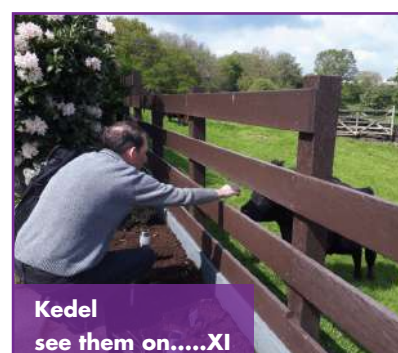
Olympus Crew set up in early 2018 has developed into offering event solutions with crew, technicians and carpenters nationwide. Staffing jobs and events predominantly in the north of the UK, Olympus Crew has now spread across the UK and the globe working on some of the worlds most prestigious events.

Event team Leeds and London

Whether it's a big or small event, International or Local, Olympus Crew have you covered. With crew operational in Leeds and London, with the ability to travel far and wide, we are a convenient and proficient option for you to use for your crewing needs. As well as the UK, we've sent crew to Europe, Asia, Australia, North and South America, so wherever we're needed we'll be there for you.

Here at Olympus Crew, we have a dedicated team of hardworking professionals who form the Olympus Crew family. To date, we have over 80 crew members which increases daily.

Please visit www.olympuscrew.co.uk
Contact **079 049 03452** or email info@olympuscrew.co.uk



Kedel
see them on.....XI



Service Sealing Solutions
see them on.....XII-XIII

Make your project possible

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

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

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

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

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

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

Key to DCON Safety Consultants Limited's services is working as a Project Supervisor for the Design Process and CDM Advisor in various



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

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

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

creation of an environment that embraces health, safety and wellbeing.

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

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

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DCON Safety Consultants, Suite 5, Fitzwilliam Square East, Dublin 2

SWIFIX: Leading products to enable fixing through EWI



Protecting Your Investment

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

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

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

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

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

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

The SWIFIX range is PAS 2035-compliant for retrofitting, modular housing sector and future-



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

The SWIFIX range includes the following:

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

"We're proud to be recognised for this Production Innovation Award – our Devon-based company has

grown exponentially since 2016 and we are now supplying products throughout the UK and Europe. We've established long-term relationships in Greece, Poland and Germany and are hoping to expand further across the continent in the near future. Business is flourishing due to the unique nature of our products on the market."

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

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

For more information or to talk to Paul Brown, please see details below:
T 01884 211540
info@swifix.co.uk
<https://www.swifix.co.uk>



IAS: Success at APF 2024 and exclusive new Socage product

Independent Access Sales (IAS) sell market-leading manufactured platforms, such as Easylift Spider Platforms, SOCAGE Truck Mounting Platforms.

Based in Huntingdon, IAS has gone from a relative newcomer on the market to selling million-marked machines over the last two years. One of the main reasons for the company's success is the focus on solid customer service. Founder Richard Martin has 35 years' previous sector experience across scaffolding, supervisory roles and surveying and understands the industry inside out.

With a focus on brand awareness, IAS brought its Easylift Spider Platforms and SOCAGE truck-mounted platforms to the APF Show from the 19th-21st September at Ragley Estate, Warwickshire. APF has been running since 1976 and is a respected dedicated biannual event for the whole forestry, woodland, arboriculture, firewood,



fencing, tree and timber sectors. It's the largest of its kind and attracted 23,000 visitors this year.

"APF 2024 was a huge success for us. We met lots of knowledgeable end-users, with a huge appetite for the latest machinery. As a biannual event, it had an extra buzz, with lots of strategic talk. We had lots of hot enquiries and sold a SOCAGE 24D double-articulated truck platform during the three-day event. This product has been precision-designed with safety in mind, with automatic stabilisation as standard. It can reach a working height of 23.60M and a lateral reach of 12.70M with a maximum load of 300kg: perfect for all tree surgery jobs. The SOCAGE 24D is set up to approach heights without risk of collision and with improved precision, which is ideal for manoeuvres like tree pruning." added Richard.

The Easylift Spider Platforms are also ideal for tree surgeons: with the range available from 13M up to 53M. The Easylift platforms give the owner

operator assurance and flexibility in business: simply put – more control over what to do in different environments. For tree surgeons, this allows operators the advantage of closing the Easylift Spider Platform down to less than 1M working width to take down a narrow footpath in a forest, to setting up on a hill to work at great height.

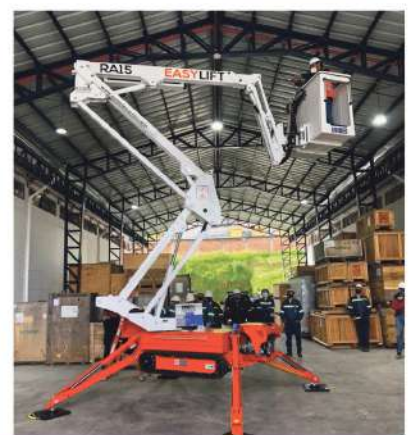
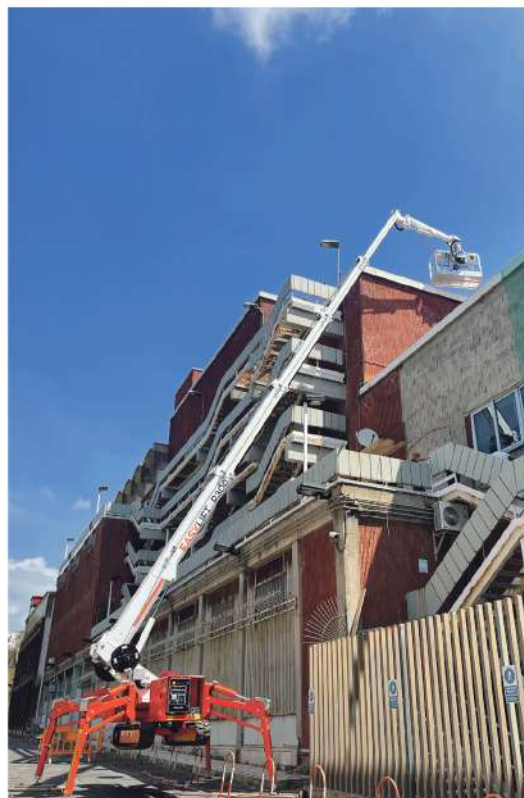
"We are delighted to report that from early next year, we will be supplying the SOCAGE 75M – which will be the largest SOCAGE access platform in the UK: a market-first. Contact us now for further information!"

For more information or to speak to Richard Martin directly, please see the details below:
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Soaring success of 2024

As the year is rapidly drawing to a close, Direct Hoist, a leading specialist in construction hoist hire and sales, is reflecting on not only this year's successes but also the past 10 years since the company started in 2014.

From humble beginnings in Rob's garage, to a large unit, then the recent move into even larger premises, enabled the company to grow and grow. 2022 saw the addition of its bespoke training centre offering both familiarisation and NVQ Level 2 courses in hoist installation.

The company offers training on hoists & mast climbers with lifting capacities between 200kg and 5,000kg. The training courses cover up-to-date industry working practices, legal requirements and working equipment knowledge. The on-site facility includes a 10m high training tower, with the capacity for transporting a two-tonne platform hoist, with full load to full height, with expert tutors offering hands-on optimal safety training.



Direct Hoist's expansion is a 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 company's backbone. But it's not only salaries that are supported, Direct Hoist puts its staff through NVQ courses, rigorous health & safety training, and further manufacturer courses but has also trained some of its staff as Mental Health First Aiders, further signalling its commitment to the Workplace Mental Health Charter, through staff wellbeing.

In May 2022, Direct Hoist became the UK distributor of Electroelsa, an Italian manufacturer of mast-climbing work platforms (MCWPs), transport platforms, material hoists and construction hoists. This summer they exhibited at Vertikal Days, a two-day event that showcases equipment for lifting and working at height, where they displayed a wide

selection of Electroelsa equipment including a PM-M56 transport platform, the P46 mast climber, PM-M23, and PM-M10, and demonstrated Electroelsa's new safety feature, missing bolts presence – which detects missing mast bolts during assembly.

Also this year, Electroelsa in conjunction with Direct Hoists' expertise in the UK safety regulations, is implementing a wide range of technological innovations, which Direct Hoist is excited to provide to the British construction industry in its ever-growing Electroelsa hire fleet.

Over the past decade, the company has a pioneering approach to sustainability in the industry, from a fleet of vans powered by 100% renewable HVO fuel with a 90% reduction in CO₂ to new 100% renewable electricity powering Direct Hoists premises and are in the process of joining the eco community – a global village of over 6,000 like-minded environmentalists dedicated to making positive change for our planet.

Its ever-growing Electroelsa hire fleet can now be seen on a city skyline near you, its signature vivid yellow is hard to miss. Direct Hoists' future is looking bright.

For more information, please contact the team today:
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ModCon Cabin Trader Ltd

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

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

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



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

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

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

Being that all items produced are mostly built on a jig and to customers own specification we are open to undertaking bespoke

enquiries too so please feel free to engage with us here at ModCon Cabins even if you have a rather random enquiry for certain products.

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

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Introducing the Eco Clipper Electric Mowing Systems

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

The system

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



The benefits

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

The models

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

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

For more information, please see below:
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ECO CLIPPER®

How are YOU prioritising the safety of your commercial fleet?

Let's face it – how confident are you that your commercial drivers are truly prioritising safety on the roads? Can you be certain that daily walk-around checks are performed accurately? How do you know your drivers are actually getting out of their cabs to inspect their windscreens and tyres before ticking every box and going on their way? For many commercial fleets, the truth is that you don't.

It is well-documented that driving for work is one of the most dangerous things you can ask your employees to do. A staggering 33% of road deaths and 20% of serious injuries involve someone driving for work. So what are you doing about it?

The reality of road safety in commercial fleets

Managing a fleet of commercial vehicles is no easy task. The logistical challenges are immense, and ensuring the safety of each driver is paramount. However, safety protocols can often become mere checkboxes in a long list of daily duties. When the pressure is on to meet delivery schedules and performance targets, it's easy for thorough inspections to fall by the wayside.

But this isn't just about meeting regulatory requirements or avoiding fines. The human cost is significant. When a driver skips a safety check, it could lead to severe consequences – an accident that could have been

prevented, injuries, or even fatalities. These incidents not only affect the driver and their family but can also have a profound impact on your business, from increased insurance premiums to the potential loss of contracts.

The importance of thorough walk-around checks

Daily walk-around checks are a crucial part of ensuring vehicle safety. These inspections are designed to catch potential issues before they become serious problems. A cracked windscreen might seem like a minor issue, but it can obstruct the driver's view and become a major hazard. Worn tyres can lead to blowouts, especially at high speeds, putting the driver and others on the road at risk.

Ensuring that these checks are carried out properly is vital. This means making sure that your drivers are not just ticking boxes but are actually getting out of their cabs and performing the inspections thoroughly. However, manual checks can be inconsistent. Fatigue, complacency, or simple oversight can lead to missed steps, and without a robust system in place, these errors can go unnoticed until it's too late.

Choosing CheckedSafe for safer roads

This is where CheckedSafe comes in. CheckedSafe is a comprehensive SaaS solution designed to ensure that your fleet's safety checks are carried out accurately and efficiently. With our system, you can digitise your inspection processes, making it easier for drivers to complete checks and for you to monitor compliance.

We provide a user-friendly app that guides drivers through each step of the inspection process, making sure that no item is overlooked. We do this by dating, timestamping and geolocating every time they press a button, so you can see if they have raced through the checks in two minutes or carried it out properly. The software also uses an accelerometer to make sure they're walking around the vehicle to do the checks, not just sitting in their cab.

Meanwhile, from your offices, you'll be able to monitor user activity, view comprehensive maintenance



reports in real-time, identify outstanding tasks and vehicle defects, and schedule services with our intuitive system. We also offer secure data storage and a clear end-to-end audit trail, so that you can protect your business in the event of investigations.

Don't just tick boxes, commit to comprehensive safety

Don't wait for a serious incident to highlight the gaps in your safety protocols. Act proactively to mitigate risks and ensure that every journey your drivers make is a safe one. With CheckedSafe, you gain peace of mind knowing that your fleet is compliant, your drivers are protected, and your business is safeguarded against avoidable accidents and their associated costs. Prioritise safety, protect your drivers, and ensure the longevity of your business with CheckedSafe.

Take the first step towards a safer fleet today by visiting our website at: www.checkedsafe.com or ring us on: 01282 908429.



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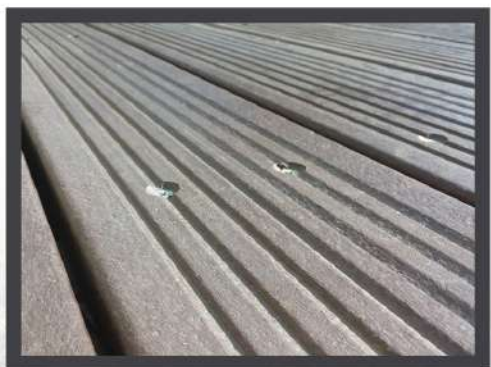
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Service Sealing Solutions Ltd has the exclusive rights to distribute DOYMA products in the UK. DOYMA stands on the front line when it comes to the development of innovative, practical solutions for sealing and fire systems. Providing the very best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

Demanding building types, such as power plants, large industrial plants, reservoirs or airports, often require highly specialised

custom-made constructions. They place high demands on the fact that building penetrations such as cables and pipe work need to be permanently sealed. In the case of extraordinary pipe dimensions or special thermal, chemical or physical requirements, sealing systems in the form of a special construction are the required solution.

Service Sealing Solutions Ltd has a large range of DOYMA products that come with a 25-year warranty. DOYMA product brochures are available on the website and include products that have been supplied to some of the UK's largest projects such as HS2 and Kings Cross in London. DOYMA has recently released its new generation Curaflex Nova® gaskets, which are the perfect solution for any professional tradesman instantly looking to solve sealing problems and can be adapted to multiple applications.

Service Sealing Solutions also supplies HKD products, which are now owned by DOYMA. HKD manufacture a large range of pipe sealing systems and service conduits that are guaranteed to withstand up to four bars pressure. HKD systems have a sealing solution for service



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

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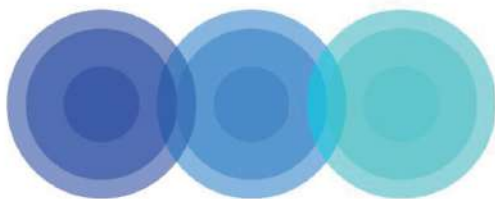
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Service Sealing Solutions Ltd are the sole UK distributor of DOYMA products. Wherever services are installed through walls, ceilings or floors, penetrating water may cause damage to buildings. Lack of attention to the points of entry of pipes and cables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



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Timber



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

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

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

As leading specialists in construction project co-ordination and management, the company's range of services includes: building surveys, land condition

surveys, coal and other mining reports, contaminated land audits, land and mine surveying, geotechnical advice and site investigation.

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 competition.

"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."

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New UNISIG Operating System Streamlines the Human-robot Interface

Representing a leap forward in programming, UNISIG's next-generation operating system further improves the human-robot interface and slashes programming times.

The new operating system, featured on UNISIG's UNE6-2i-750-CR small-diameter gundrilling machine, streamlines the setup of dozens of different part handling combinations to reduce new part setup times by 80% or more. The system significantly improves the communication between the machine's human machine interface (HMI) and the robotic controller. This enables centralized data storage or a single source of truth – the coding and data for the gundrilling operation and the program for the part handling are stored together for ease of recall.

Because it works within a parametric programming environment, the new operating system automatically adjusts its parameters to any dimensional part changes, without the need to manually calculate and enter in new

parameters. Such intelligence eliminates the need to start over and create entirely new and independent programs, while greatly simplifying and shortening programming times for part families.

The UNE6-2i-750-CR gundrilling machine with integrated robot ships with a handheld programming console/teach pendant connected to the machine. Prior to the use of parametric programming, all part handling operations were pre-programmed using the pendant. Users can now enter and store all machine and robotic parameters in the machine HMI. This allows for a more centralized user experience and greatly reduces the depth of robotic experience required.

The machine HMI has built-in parametric selection guides, allowing users to toggle between data entry and the programming guides. Each data value, and its function, are graphically displayed in the on-screen programming guide. This prevents the guide from being misplaced and makes it available

at all times, which is especially advantageous when periodically adding new parts involving large time gaps between them.

The UNE6-2i-750-CR with integrated robotic automation also features interchangeable part trays. The robot services both the machine's spindles and accommodates drilling of different diameters from each end. The optional lantern chuck system on this machine model allows workpiece loading into the rear of an automatic collet chuck to ensure accurate workholding, especially for uniquely shaped workpieces.

UNISIG's UNE6 Series of precision gundrilling machines generate holes from 0.8mm to 6.0mm (0.03" to 0.24") in even the most challenging of materials. Such capability makes the machines well suited for a wide range of applications, including medical part manufacturing.

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BTA Drilling: Brazed Versus Indexable Tooling

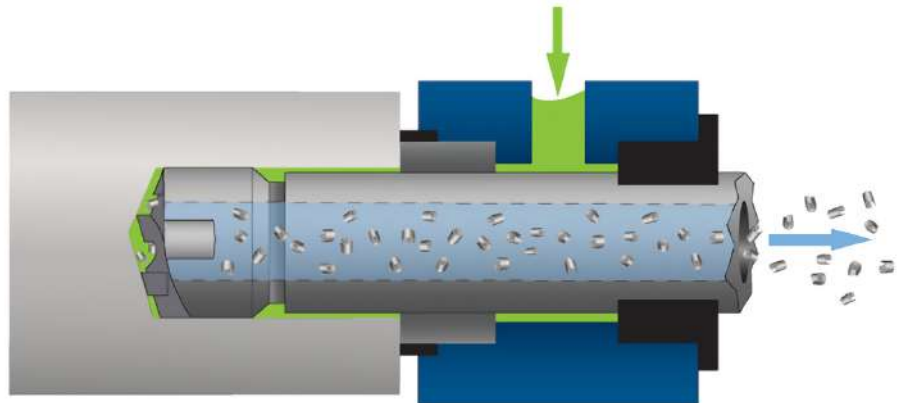
Photos: UNISIG

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

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

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

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



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

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

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

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

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

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

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



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

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

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

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



been hired for production and R&D, and we have rearranged the supply chain due to the rise in production costs. We have adapted our yearly forecast to cater to this, we know it will be hard, but optimisation is our current goal."

Knowing there is no quick fix to economic changes, ECO PHYSICS is determined to continue innovating and has developed a new three-channel analyser based on chemiluminescence. As an upgrade from the The nCLD AL2, The nCLDAL3/8555 CY analyser is the next generation in high precision nitrogen oxide measurement. Unique in speed and reliability, the nCLDAL3/8555 CY is modular designed and capable of simultaneously NO, NO₂, NO_x, NH₃ and NOX-Amines. The new and intuitive graphical user interface also individually displays and connects to other instruments' data.

Overall stability and reliability are lifted to a new level. The optional electro-mechanical bypass system balances out even the fastest

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

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

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

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

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Hat-trick Award for Davies Turner Group

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

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

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

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



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

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

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

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



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

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

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