

Best Practice



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Watlow® Launches ASSURANT® HT

A High-Temperature Solution for Semiconductor Processing

Watlow®, a leading provider of advanced thermal management solutions, is excited to announce the launch of the new ASSURANT® HT high-temperature heating jackets designed to meet the unique needs of semiconductor processing.

Watlow's previously released ASSURANT heaters are heater jackets made with PTFE-coated fiberglass that maximizes thermal uniformity and coverage for gas lines, pump lines, forelines and exhaust lines in semiconductor processing applications. These solutions offer even heating for uniform temperature profiles over the entire heated line. The ASSURANT heater jackets optimize process tool uptime and chip yield by providing full coverage to the line eliminating cold spots that result in particle buildup.

As today's advanced processes, with new chemistries and applications, require even

higher temperature ranges, ASSURANT HT delivers a recommended operating temperature of up to 350°C, making it the perfect solution for the most demanding applications. Our glass-based technology ensures that ASSURANT HT is SEMI-rated for cleanrooms and flammability, rendering clogging and fouling issues a thing of the past.

"We are thrilled to introduce the new ASSURANT HT to the market," said Doug Schaefer, chief system designer at Watlow. "Our first-generation ASSURANT TC is a reliable heating solution for many applications, but as industry evolves there is a need for an even higher temperature range. With ASSURANT HT, we are providing our customers with a step change in thermal performance that will help them stay ahead of the curve on challenging processes like titanium nitride."

ASSURANT HT is compatible with all existing

controllers, making it a true plug-and-play solution that allows for easy integration with existing equipment. Watlow's extensive experience within the semiconductor industry has led to a broad portfolio of innovative breakthrough products that have been thoroughly tested and proven.

The launch of ASSURANT HT marks a new era for the ASSURANT line of heaters, designed from the ground up for semiconductor processing.

www.watlow.com



Oliver Twinsafe Valves Supplied for MEG Injection Pump Systems

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

The order includes a batch of 2 1/16" API 6A 5000psi Double Block and Bleed valves in A182 F55 Super Duplex material that have been dynamically tested to meet the requirements of API 6A PSL level 3. In addition, the valve designs were pre-qualified to API 6A PR2 Appendix F, which involves multiple cycle testing at low, ambient and high temperature with zero leakage allowed across the valve seats throughout these cycles.

A number of Oliver instrumentation valves have also



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

For information on how Oliver Twinsafe can provide pipeline valve solutions for your project, telephone +44(0)1565 632 636 or visit our website at valves.co.uk

MachineSafe Compliance

Discover the benefits here

Since the highly successful launch, feedback from users has been very positive with regards to the ease of use of the MachineSafe platform and time savings when compared to their previous methods of carrying out compliance inspections.

Over half of their time is being saved since transitioning to MachineSafe for their machinery safety & compliance audits.

Here at MachineSafe, we understand the burdens that come with carrying out PUWER and compliance inspection processes. From asset management, carrying out the inspection right through to issuing reports, having the right tools in place is crucial for every safety professional.

That's why we're here to help.

Inspection modules tailored for you
MachineSafe Compliance Ltd is our one stop platform for all your machinery inspection needs.



We'll provide you with a wide range of flexible inspection modules and checklists - and we're constantly adding new modules to the roster, like MachineSafe Audit. MachineSafe Audit is the perfect tool for recording issues on new and existing equipment.

On-the-go management
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MachineSafe enables you to manage all your assets, carry out 'at machine' inspections, record hazards and control measures, and report generation all from the palm of your hands. Simply download the app on your Android tablet.

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Editors Notes

Liz Dickinson

Editor



In our Spring issue of Best Practice, we bring you all the latest innovation and news from across the industry. Many of the companies we feature offer long-standing expertise, services and products, from environmental engineering, to innovative freight forwarding.

We have chosen to recommend ERG (Plastic Fabrication) Ltd for its premium bespoke plastic fabrication, spanning over its forty year history. The ERG Group functions through its three core divisions: ERG (Air Pollution Control) Ltd, ERG APC Maintenance Ltd, and ERG (Plastic Fabrication) Ltd and offers customised odour and air pollution control systems, and ancillary services around the world. [Read more on page 3.](#)

Our second spotlighted company is Davies Turner for providing international freight forwarding operations, despite disruptions across the Red Sea region and other global economic and warfare challenges. The express freight rail service from China to the UK is offering a much-needed lifeline for UK companies with slow-moving shipping and costly air freight. [Read more on page 9.](#)

We also cover news on fleet management streamlining, automatic robotic solutions, perforating services, chemiluminescence analysers and much more.

Don't forget to send us your latest Industrial news and updates and email us at sales@bestpracticeuk.co.uk

Cover Story

Since the highly successful launch, feedback from users has been very positive with regards to the ease of use of the MachineSafe platform and time savings when compared to their previous methods of carrying out compliance inspections.

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40 years of environmental engineering and contracting experience

In this issue of Best Practice, we have chosen to recommend ERG (Plastic Fabrication) Ltd for its high-quality custom plastic fabrication that is provided to the process industries.

The ERG Group has over 40 years' experience in providing bespoke odour and air pollution control systems, and ancillary services around the world. The ERG Group functions through its three core divisions: ERG (Air Pollution Control) Ltd, ERG APC Maintenance Ltd, and ERG (Plastic Fabrication) Ltd.

ERG (Plastic Fabrication) Ltd specialises in the high-quality custom fabrication of process industry vessels and associated components from GRP and composite plastic materials. We spoke to Martin Bulman, who has worked in the plastic fabrication industry for 34 years. He began his career at ERG (Plastic Fabrication) on the production floor, and over the course of nine years has worked his way up to the position of General Manager and Director. "At ERG (Plastic Fabrication) Ltd we design, manufacture and supply scrubbers, tanks, pipework, ducting and also skid packages. We can fabricate a range of vessels (which are mainly plastic lined with a GRP covering) and can also handle special commissions for the construction of one-off bespoke items."

Plastic fabrication technology can offer a flexible, low-cost fabrication solution for many bespoke industrial process vessels. ERG (Plastic Fabrication) Ltd has fabricated vessels and units for end customers globally across a multitude of industrial process sectors including water treatment, food processing, pharmaceuticals, waste handling, ventilation, energy generation, metal processing and refining applications, and many more. Sectional vessels, fume hoods, dosing pump cabinets, and chemical scrubbers are just some of the applications these industries can be supplied with.

ERG (Plastic Fabrication) Ltd has a vast arsenal of services to offer and specialises in manufacturing using a wide range of plastic materials including PVC, CPVC, Polypropylene, PVDF, and other speciality plastic for harsh environments such as ECTFE. "As the



manufacturing division, our services combine with ERG APC Maintenance Ltd to provide an on-site aftersales servicing and maintenance service. This service ensures any problems are rectified as quickly as possible with minimum disruption. We also have a regional headquarters based in Jordan, which deals with many projects across the Middle East for which we are often the source manufacturer," said Martin.

Other additional services include project management, testing, trial assembly, reconditioning and repair, and emergency call-out for repairs and maintenance. The parent company ERG (Air Pollution Control) Ltd, contributes strong process and engineering design capabilities. By using ERG for the design and ERG (Plastic Fabrication) Ltd for the fabrication, clients can benefit from the in-house design, manufacture, installation and commissioning services available.

In 2021, ERG (Plastic Fabrication) Ltd has relocated to a new four-acre site where it has invested in purpose-built factory and



office buildings. "The move has enabled us to consolidate all our UK based functions onto one common site which significantly improves our working efficiency, production quality and production capacity. The plastic fabrication workshop now benefits from a 60 m x 24 m workshop with overhead gantry cranes. This has enabled us to build larger diameter vessels more efficiently, and greatly improves production with a linear workflow of material through the factory via a fabrication shop, feeding into a GRP lamination shop, which then feeds into a final fitting out/trial assemble workshop," explained Martin.

The past 12 months have been challenging for many businesses, however. Martin explained how the company plans to move forward. "I can only see the company improving. Even throughout COVID-19 restrictions, we were lucky enough to avoid the need to place any staff on furlough, and we had a constant flow of work coming through. Our customer enquiry levels have remained high, so the future is bright for ERG (Plastic Fabrication) Ltd."

Of course, it's always good business to foresee any potential threats or challenges the future may bring, and we asked Martin how the company will address these. "We have a great management team that stays abreast of the movements in the supply chain. Materials have had a longer lead-time and prices have increased over the last 18 months owing to supply disruption. Things seem to be improving and currently we have had no issues obtaining materials. As a company we are trying to minimise any price increases to maintain our competitive position in the current market."

For more information:

T 01403 291 000
info@ergpf.co.uk
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CELEBRATING VALVE ENGINEERING EXCELLENCE

2023 has been a watershed year for climate change. Energy instability, growing emissions, and increasing environmental awareness mean we must act now – or face the consequences. We’re celebrating 80 years of the Energy Industry council at a time when their work is more important than ever. Only by working together can we tackle the biggest challenges we face in the world, climate change – and Koso Kent Introl (KKI) is playing a leading role.

KKI has been manufacturing control and choke valves since 1967. We supply precision-engineered, high-quality valves to perform in some of the most severe service conditions. The business has built a global reputation for providing high-performance products. Every valve is backed by first-class technical expertise and professional after-sales service.

KKI is at the forefront of developing new valve technologies for use in the sustainable energy sector. Today, our valves are at the heart of energy engineering projects in carbon capture, utilisation and storage, hydrogen applications offshore floating wind, and surface and subsea electrification.

Customers can work with KKI’s engineers to identify the best valve type, size, and performance parameters for every use case. Each hand-built valve is the result of over 50 years of engineering excellence and is designed for decades of use in the most demanding conditions.

As a business, we recognise that we can’t achieve everything alone. In 2022, KOSO Kent Introl (KKI) and Oxford Flow established a new partnership. Two of the world’s leading valve engineering companies are combining unrivalled industry knowledge, engineering expertise, and valve heritage to create a unique market proposition.

KKI has an international reputation for engineering excellence, with its precision valves used worldwide. Oxford Flow has developed a game-changing range of innovative valve designs that change what’s possible in integration, operation, reliability, and cost.

Oxford Flow and KKI have entered a partnership to develop new products and solutions for the growing global energy valve market. Together, we can create market-ready solutions for the sustainable energy sector.

The new partnership will combine Oxford Flow’s hydrogen-ready gas regulators and emissions-eliminating axial valve with KKI’s industry knowledge, valve legacy and manufacturing expertise to provide a truly unique offer. To support our partnership, we’ve developed a new brand and identity for our customers.

KKI and Oxford Flow are redefining energy-sector valve technology for a more sustainable future. KKI’s global reach and reputation for quality will open new markets and generate new opportunities for both partners.

The strategic relationship brings together two of the world’s leading engineering and technology businesses to support the growth of the sustainable energy sector across the world.

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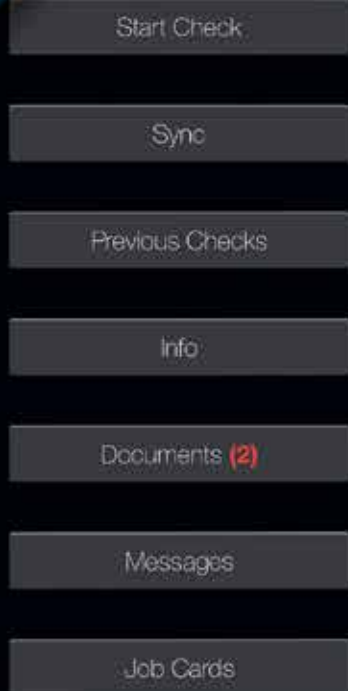


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CheckedSafe and MICHELIN Connected Fleet join forces to support Network Rail



Partners with



CheckedSafe, the UK's leading provider of vehicle compliance and fleet management solutions, are proud to announce their collaboration with MICHELIN Connected Fleet, a move set to improve their service offerings to Network Rail.

Last August, CheckedSafe revealed that they had secured a monumental partnership with Network Rail, which sees them responsible for managing one of the largest fleets in the UK.

This partnership is anything but ordinary. But how could it be? Considering the vast scale of Network Rail's operations, which includes over 10,000 vehicles and 44,000 unique drivers, CheckedSafe dedicated months to developing bespoke software solutions to meet their requirements.

However, the journey to revolutionise fleet management for the firm had only just begun.

CheckedSafe and MICHELIN Connected Fleet

The recent partnership with MICHELIN Connected Fleet, a leader in fleet telematics systems, takes their services to the next level. The integration of both technologies facilitates real-time tracking and reporting on vehicle usage, ensuring adherence to the highest safety standards.

Specifically, MICHELIN Connected Fleet's system generates comprehensive reports on vehicle movements. These reports are then cross-referenced with CheckedSafe's data, identifying which vehicles are moved without a check, which are moved with a check, and those already marked Vehicle-Off-Road (VOR).

This ultimately provides Network Rail with complete visibility over their fleet at all times,

ensuring vehicles are easily identifiable and compliance is meticulously maintained. Not only this, but the data can be used to inform Network Rail's decision-making process - allowing them to optimise their fleet and reduce costs.

How does the partnership benefit Network Rail?

Before this partnership, ensuring that each vehicle was properly checked before use posed a significant challenge for Network Rail.

The reliance on driver honesty made it difficult to monitor and guarantee pre-use checks across such a vast fleet. Now, the integrated systems of CheckedSafe and MICHELIN Connected Fleet allow for efficient identification of discrepancies, streamlining the compliance process and reinforcing accountability in fleet management.

In addition to this, the new collaboration has further bolstered Network Rail's commitment to road safety and accountability, supporting its vision of maintaining one of the safest vehicle fleets in the UK. With over 10,000 vehicles under its management, CheckedSafe are honoured to contribute significantly to Network Rail's safety objectives.

CheckedSafe's Darran Harris, comments, "This has always been an ever-evolving partnership for us. At its core, it's about fundamentally changing driver behaviour to help make our roads safer. The recent collaboration has meant we've been able to amp up our efforts and ensure Network Rail really are leading the way when it comes to safety."

"It's been great to collaborate with the team at MICHELIN Connected Fleet on this project.

There's a special satisfaction in devising these tailored solutions that truly work for our clients. Whether that's from the customised API software or developing new app functions, we're very proud of our involvement so far. After all, it's a testament to our SaaS platform that it's at the forefront of Network Rail's vehicle compliance!"

What inspired the creation of CheckedSafe?

"Prior to CheckedSafe, compliance was a difficult area for many fleets to get right," explains Darran, "Of course, it isn't always a priority for busy businesses, either. What's supposed to happen is that the driver would check the windscreen and the tyres before setting off on a journey, but the truth is that he can sit in his cab and tick every box - and you're none the wiser. We wanted to be able to say with integrity whether drivers were doing this properly or not. And so, CheckedSafe was born."

"When drivers use CheckedSafe, they login to our app to complete their checks. We then date and timestamp this, as well as geolocating where they are."

"Every time they press a button we record the time so you can see if they've raced through the checks in two minutes; and the clever bit is we also use the accelerometer in the device to make sure they're walking around the vehicle and not just sitting in the cab because it's raining!"

For more information regarding the bespoke streamlined compliance solutions from CheckedSafe, see below.

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Importers utilise Chinese rail service, reducing ocean transit times!

Here at Best practice, we are recommending Davies Turner as the leading international freight operator in Europe and now a truly international freight forwarder. With such established longevity comes a trusted reputation within the industry. The latest exciting expansion is an express freight rail service across Asia from China departing twice weekly from Wuhan in the central Hubei Chinese province. The LCL rail service currently departs on Wednesdays and Saturdays, directly to a UK rail terminal and takes approximately 20-25 days from door-to-terminal. Shipping rates from Asia to the UK increased exponentially last year to a record 14 times higher than pre-COVID-19 rates.

Davies Turner was founded an astonishing 150 years ago in 1870 as the first fully legitimate economic operator in Europe and now a truly international freight forwarder. With such established longevity comes a trusted reputation within the industry. The latest exciting expansion is an express freight rail service across Asia from China departing twice weekly from Wuhan in the central Hubei Chinese province. The LCL rail service currently departs on Wednesdays and Saturdays, directly to a UK rail terminal and takes approximately 20-25 days from door-to-terminal. Shipping rates from Asia to the UK increased exponentially last year to a record 14 times higher than pre-COVID-19 rates.

Industry analyst S&P Global Platts saw costs rocket to \$18,000 per container with shipping transit schedules double from 35 to 70 days. The Chinese rail links are notably faster than sea freight (saving approximately 22 days) and on average it is 70% cheaper than air freight, offering customers a quicker alternative to more traditional transportation. It is this kind of ingenious, bold thinking that has maintained Davies Turner's position as a leading International Freight Forwarder.

With 23 UK branches including its head office in London this company successfully swerved the fallout from COVID-19 by thinking outside the box. Andrew Ford, Branch Manager from the Rotherham branch focuses on less conventional transportation,

"We specialise in awkward and out of gauge



shipments. We have shipped many vehicles ranging in sizes and type to small rail engines as well as large machinery moves."

Although the majority of the pandemic restrictions have lifted alongside a slow reduction in shipping costs, there are new unprecedented challenges from the war in Ukraine, organised port strikes and the cost-of-living crisis as Andrew highlights,

"Russia's invasion of Ukraine has had various impacts on various different industries: freight and logistics being one of them. The port of Odessa was shut down for almost six months after the city was hit with Russian missiles. Ukraine is a big part of the global food industry, exporting grain via the sea out of Odessa. With this coming to a temporary halt, global food prices have shot up with the limitation of grain available for food production. This has also affected the freight industry as fuel rates increase and has in effect accelerated a global recession."

As an International Freight Forwarder, the company is at the mercy of world events such as the war in Ukraine and to mitigate further risk, is always looking for positive news to pass onto end-user customers. Whilst shipping transit rates continue to fall after peaking last year, Andrew is confident that the company can ride the storm of new challenges ahead.

"The cost-of-living crisis may affect how many manufacturers are able to import and export, due to consumers not being able to afford buy these goods. However, we hope that the freight rates dropping will make it so that manufacturers will still be able to afford to ship and import goods to keep the supply chain moving."

As the company continues to navigate its way through many challenging external aspects it has continued to receive many heavyweight industry awards. In 2020 Davies Turner won not only the coveted European Logistics



Category Award from The British International Freight Association (BIFA) but was also shortlisted for the Supply Chain Management category. Philip Stephenson, Chairman of the Davies Turner group was delighted,

"Davies Turner is well known for its comprehensive European overland portfolio which offers direct groupage, part load and full load trailer services with dedicated express transit and super-express options. The market for European overland operations is very mature and highly commoditised, so the opportunities to differentiate the service offering are limited. Furthermore, a significant proportion of the traffic on the network is booked and contributed by other freight forwarding and logistics companies, which do not operate their own services. Increasingly these important third party co-loaders have sought the ability to obtain immediate rates for any of our European overland export and import trailer services in real time, without having to resort to time-consuming telephone calls, emails or filling in online quotation request forms."

The ingenious unique selling proposition of e-freight quotations and third-party bookings 24 hours a day has led to a substantial increase in business development, especially across the European sector.

With digital innovation and the express Chinese rail system, Davies Turner will be leading freight forwarding services well into the next future.

For an Air, Sea, Road freight quotation and further information, see the details below:

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Robotics Automation Company Launches

Autrix, a new robotic automation company, launched this month with the mission of making automation accessible for small and medium-sized enterprises (SMEs) across the UK. Formed from leaders in the robotics space and talent from automation companies, Autrix aims to enable SMEs to compete globally through increased efficiency, productivity and innovation.

Autrix provides end-to-end automation services, from initial conversations about automation potential to installation and ongoing optimisation of automated systems. With a strong software focus, Autrix offers strategic guidance to help businesses determine how and where to implement automation to best support their growth.

"SMEs are the backbone of the UK economy, yet many struggle to keep up with larger competitors that have already invested heavily in automation," said Joe Daft, Managing Director and Founder of Autrix. "We started Autrix to give these smaller players a fighting chance, with automation solutions tailored to their needs and budgets along with the expertise to help them benefit as much as possible."

The leadership team at Autrix brings decades of experience in delivering solutions within the SME space. By exclusively focusing on SMEs, Autrix

can offer customised and cost-effective automation services that allow these companies to achieve quick wins, foster innovation, and gain a competitive edge.

"Automation is key to the future of manufacturing and business in general, but the resources required have put it out of reach for most SMEs until now," said Ian Shay, Co-Founder of Autrix and Director of L&S Engineers. "With Autrix, SMEs across the UK finally have an automation partner invested in their success".

With locations strategically located throughout the UK, Autrix is well positioned to serve SMEs nationwide. In Birmingham, Autrix operates a live automated warehouse and service centre where technology partners can demonstrate solutions. The Lincoln office focuses on designing custom automation systems and software to meet specific customer needs. Autrix works with best-of-breed technology partners including Hikrobot, VisionNav and ProGlove to provide SMEs with automated mobile robots (AMRs), robotic arms, automated guided vehicles (AGVs), smart gloves and more.

By bundling technologies from multiple vendors, Autrix can provide SMEs with integrated automation systems from single robotic solutions to large deployments of 50+ AMRs tailored to their needs at a



lower cost than purchasing from individual technology providers.

Autrix's dedication to democratising automation for SMEs through their tailored solutions, strategic guidance, and commitment to success positions itself as a valuable partner for SMEs seeking to thrive in an increasingly competitive global market. Autrix is set to empower SMEs with the knowledge, confidence and tools they need to embrace automation and unlock their full potential.

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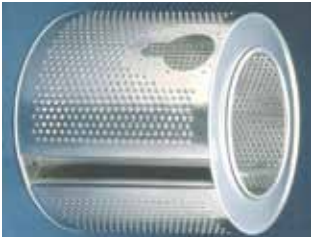
RMIG: We make ideas come to life

As the largest perforating company in the world, RMIG has over a century's experience in the perforation industry. This impressive size and experience means RMIG has a local presence in a range of markets, providing accessible contacts for customers no matter what their query.

RMIG is dedicated to being an innovative and reliable solution provider in the perforation industry, as well as being recognised as a benchmark for customer service and optimised logistics.

RMIG's perforated sheets can be used effectively within a number of areas, and RMIG has six dedicated market sectors covering Industrial Processing, Food Processing, Buildings and Interiors, Multimedia and Communication, Automotive, and Household Appliances.

One particular 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.

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.

In the production of perforated dishwasher



filters, RMIG offers the complete service from perforating and forming, including surface treatment, right up to final assembly complete with plastic rings and funnels. RMIG also has decades of experience in the manufacture of perforated sieves using highly developed technical methods and strict quality control systems to guarantee customers are receiving the best possible product.

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www.rmig.com/en




PERSONAL ENVIRONMENTAL MONITOR

Pamby Electronics releases the latest version of the PED 1780 Personal Environmental Monitor.

The new wearable instrument provides a complete profile of particulate matter, noise (level/dose), temperature and humidity as well as the option to monitor gas levels using a variety of available sensors.

The small size and light-weight (~280g) allow the instrument to be attached to clothing using the industry standard Klickfast adaptor.

The new instrument is extremely configurable. The base model provides the noise, temperature, humidity and movement sensors as standard and allows up to **four** gas sensors, or a particulate sensor and **one** additional gas sensor within the housing. The instrument is self-contained with no external equipment required. The internal lithium-ion battery provides up to 160 hours of use between charges.

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At DMS technologies, we pride ourselves on being able to complete projects based on your unique specifications. We recognise that today's engineers require more than just a battery supplier. Organisations require a battery partner to fully understand their requirements and provide appropriate solutions. As an independent provider, we will evaluate your requirement and look to balance quality, performance, and cost to provide you with the best solution for your needs.



We started 30 years ago as a battery pack manufacturer and remain a leading UK pack builder, still manufacturing large numbers of our original 'Cyclon' battery packs. Gradually adding more and

more technologies and suppliers. Using lithium, alkaline and NiMH cells, we design and build packs for bespoke applications ranging from Oil & Gas to Emergency Lighting, offering a basic shrink wrap solution to a fully moulded plastic casing.

As a Yuasa, Enersys and Tadiran distributor we offer batteries for several different industrial applications, including, but not limited to:

- ▲ Emergency lighting
- ▲ Fire and Security
- ▲ UPS
- ▲ Telecom

Our team will work with you from conception through to design, build and release keeping you in touch at every stage of development.

Do you have projects in 2023 and beyond? Come and talk to the professionals. Our range of batteries is also available on our online shop: <https://dmsshop.co.uk>. Our brands include Red Flash, Procell by Duracell, Skyrich and many more.

Call us on: +44 (0)1794 525400,
email us on: sales@dmstech.co.uk
or visit: dmstech.co.uk

SIL 3 Certification for Oliver Twinsafe's Single Isolate and Double Block & Bleed Valves

Oliver Twinsafe Trunion Mounted valves and Floating Ball Valves have successfully been SIL certified at level 3. This new and important milestone provides operators with safety assurances at the highest level and has resulted from many months of engineering design, QA reviews, and audits.



A SIL (Safety Integrity Level) is a measure of safety system performance, in terms of probability of failure on demand (PFD). The higher the SIL level, the higher the associated safety level, and the lower probability that a system will fail to perform properly. SIL 3 is the highest rating that can be given to a valve.

High Integrity Pressure Protection Systems (HIPPS) and remotely located well-head manifolds are normally associated with SIL certification. Operators are to gain additional safety assurances from installing our ball valves, in

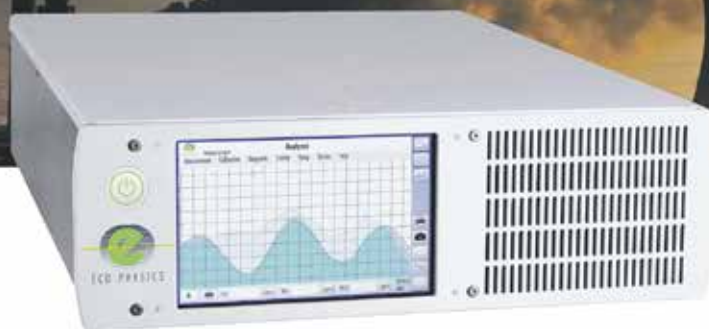
that, when the valve is required to perform its fail-safe function, the probability of it not performing is extremely low.

SIL 3 certification has been awarded by Exida, a third-party safety assessment organisation. The certification covers our range of Single Isolate valves, and Double Block and Bleed valves comprising two separate isolates within the assembly. Bore sizes for Trunion Mounted valves range from 1" – 16" and 1" – 3" on Floating Ball valves.

www.valves.co.uk

ECO PHYSICS nCLD "Facelift" boxed solutions

AL, AL², EL S, EL, EL²



- Compact analyzer with external or integrated pump
- "Toggle mode" NO₂-feature for One-Channel instruments
- Intuitive graphical user interface
- Internal data logger and status recorder
- Remote operation/control, Power DOWN/UP
- USB, HDMI, LAN/WLAN, Bluetooth, RS-232, Analog I/O

Measurement of:
NO • NO₂ • NO_x

The one- and two-channel chemiluminescence based NOX analyzers of the nCLD "Facelift" box-solution analyzers detect NO, NO₂ and NO_x at concentrations ranging from 5 ppm to 5000 ppm with minimal detection limits averaging from 0.4 ppb to 0.5 ppm. They hereby focus on two main application areas, Ambient Air (AL, <50ppm) and Emission/Process (EL, <500ppm; EL S <5'000ppm) monitoring. The one-channel nCLD AL, EL and EL S feature an external pump, while the two-channel nCLD AL² and EL² include an internal pump. The nCLD "Facelift" boxed solutions consist of five, fixed and preconfigured analyzers. The nCLD AL (Ambient Level) and EL S/EL include a standard NO/NO_x measurement, with an optional NO₂ add-on, while AL² and EL² include, due to the two-channel set-up, a standard NO₂ detection. Additionally, all nCLD-models are capable of a remote power down/up including a failsafe feature. nCLD AL² and EL² are TÜV approved, qualified according to ISO EN 14211 and 15267 1-3.





SEMOTA
Continuous Remote Monitoring



Continuous Remote Monitoring



Three years time storage
3 years rolling data retention



Live dashboards
Create real-time dashboards
to analyze data and control devices



Events engine
Keep operators on-the-ball
and informed



Synthetic Variables
Transform raw data into insights



User management
Build applications to best fit
the operator's needs

Interface Force Measurements Ltd

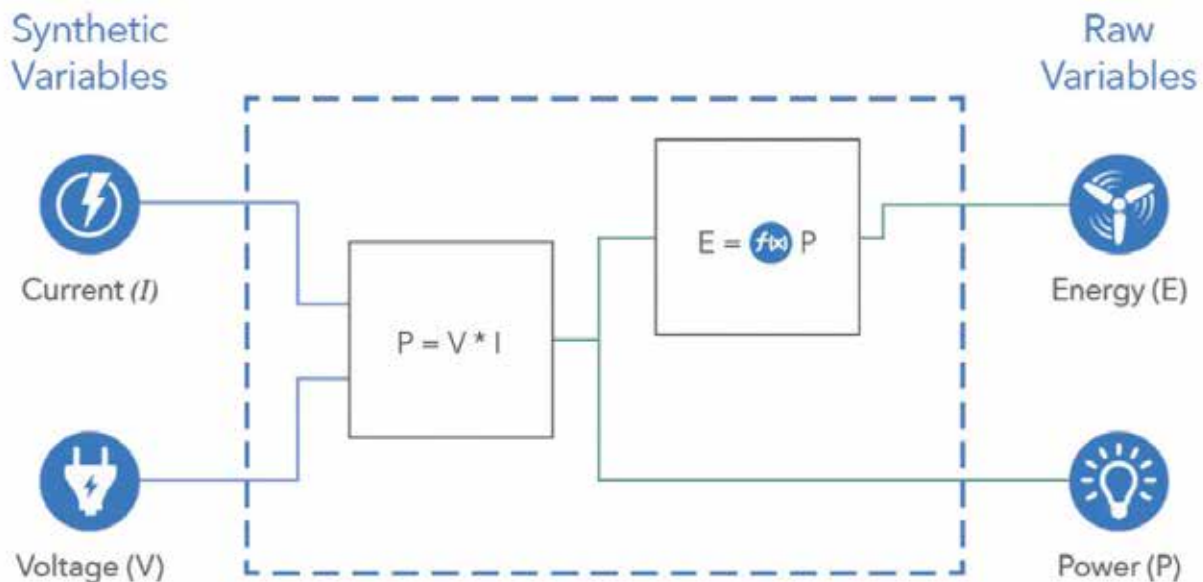
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Crowthorne, Berkshire RG45 6LS

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SEMOTA:

sense, monitor, trigger, act



The new remote monitoring solution from interface force

SEMOTA is a hardware and software solution with a web-based application that enables the remote monitoring of any load cell, force, torque or pressure sensor, using our Wi-Fi enabled hardware.

SEMOTA Continuous Remote Monitoring provides dynamic dashboard views of your events, analysis and device control. Information can be captured and stored for review and in depth analysis. Linkage to common messaging systems deliver live alerts for device management. Tailor and build applications to suit your needs and devices. Read more below, then complete the form and we'll arrange a demonstration.

THREE YEARS STORAGE

Whether your data is needed every day or every few seconds, SEMOTA is

optimised to receive, compute, and return millions of data points across the globe.

LIVE DASHBOARDS

Using SEMOTA point-and-click application development tools, create real-time dashboards to analyse data and control devices. Visualize data with SEMOTA stock graphs, charts, tables, indicators, maps, metrics, and control widgets or develop your own using the HTML canvas and your own code. Share your data through public links, or by embedding dashboards into custom web applications.

EVENTS ENGINE

Add conditional and complex business logic to your hardware with triggered webhooks for M2M communication, and SMS, Email, Telegram, and Slack alerts to keep operators on-the-ball and informed.

SYNTHETIC VARIABLES

Transform raw data into insights with Synthetic Variables that compute complex math formulas and statistical expressions.

USER MANAGEMENT

With SEMOTA cloud software, you can build applications to best fit the operator's needs. SEMOTA administrators can configure permissions and restrictions to any end user or operator who interacts with dashboards, devices, and/or events. Need a user to be able to oversee multiple organisations? Not a problem. You can optionally add more users or organisations to your account and we can configure your users to best suit your application.





Stepping into the future: unveiling the latest trends in Wearable IoT technology

From tracking our steps to monitoring sleep patterns, wearables have become an undeniable force in shaping our health and lifestyle. But the revolution doesn't stop there. Wearable technology, empowered by the Internet of Things (IoT), is rapidly evolving, expanding its reach beyond fitness trackers and smartwatches. Get ready to step into a future where your clothes analyse your walk, your touch reveals emotional states, and even your hard hat talks back after a bump. Intrigued? Buckle up, because we're diving deep into the hottest trends transforming the world of Wearable IoT:

Beyond steps: Delving into gait analysis
Forget step counts, the next wave of wearables analyses your walking style. Imagine sensors embedded in your shoes, meticulously tracking pressure distribution and stride length, providing personalised insights into gait efficiency and potential injury risks. This isn't just for athletes; it's for everyone who wants to improve their posture, prevent falls, and optimise their daily movement.

Feeling your touch: Emotion detection through screens
We tap, swipe, and scroll, leaving

behind a digital fingerprint of our emotions. Imagine technology that reads these subtle interactions. Wearables with pressure-sensitive touchscreens will analyse the way you interact with devices, potentially detecting stress, frustration, or even engagement. This has implications for everything from personalised user interfaces to mental health monitoring.

Wearable guardians: Safety reimagined with PPE integration
Personal Protective Equipment (PPE) is crucial for many professions, but how safe is it truly? Enter Wearable IoT. Helmets and body armour equipped with sensors will monitor impact forces, environmental conditions, and even user fatigue, sending real-time alerts and data to improve safety protocols and prevent accidents.



These are just a glimpse into the exciting possibilities unfolding in the Wearable IoT universe. As technology continues to shrink and sensors become more sensitive, the line between our bodies and the digital world will blur further. Are you ready to step into this interconnected future? explore how Wearable IoT is poised to impact your health, safety, and everyday life!



Trends in IoT

By the end of 2024, there are projected to be more than 207 billion devices connected to the worldwide network of tools, toys, devices and appliances that make up the IoT.

An ever-growing number of them will not be computers or smartphones – as everything from toothbrushes to heavy industrial machinery is brought online. Increasingly, they will be smart devices augmented with artificial intelligence (AI) and capable of making autonomous decisions.

Businesses around the world have unlocked the benefits of IoT in recent years, and as individuals, we're getting used to a greater variety of wearables and everyday connected products in our lives. This is a trend that certainly won't slow down during 2024 as the distinction between the physical and the digital continues to be broken down.

Generative AI In Wearables
Generative AI, and specifically large language models, will become a common addition to the wearable devices we use in 2024. Smartwatches and fitness trackers augmented by this technology are already on the market, enabling them to act as personal assistants or fitness coaches. For consumers, this could spell the end for regular (non-generative) AI assistants like Siri and Alexa on wearables.

Interface Force and Wearable IoT technology

Interface's load cells, torque transducers, multi-axis sensors,

DAQ, and instrumentation systems are designed for advanced IoT applications, including testing and development of wearable IoT devices.

Interface's force sensors are used throughout the product lifecycle, from our everyday smartwatches to video game consoles, from early design through manufacturing equipment to consumer use monitoring. We are excited that our sensor technologies are enhancing the functionality and precision of the growing marketing of IoT wearables across diverse domains.

Load cells are becoming increasingly popular in designing, prototyping, testing, and using wearable IoT products. They offer a highly accurate and reliable way to measure force, pressure, and weight.

Our measurement devices are being designed into wearables such as smart clothing and augmented reality equipment, including headsets and fitness equipment for precision measurement during use.

Wearable technology applications using Interface Force products

- ▲ Smart shoe gait analysis using XSensor pressure mapping
- ▲ PPE impact testing, both sports and industrial
- ▲ Measurement of pressure exerted on touch screens
- ▲ 3 & 6 axis load cells for control stick measurements
- ▲ Exoskeleton design and prototyping
- ▲ Smartwatch manufacturing
- ▲ Haptic feedback devices
- ▲ VR Headset manufacturing
- ▲ VR omni treadmill force testing
- ▲ Prosthetics development and performance monitoring
- ▲ Gaming hand-held devices

- ▲ Wearable simulation garments
- ▲ Sports equipment feedback
- ▲ Gear used in professional sports, including helmets and pads
- ▲ Remote, continuous monitoring and analysis of all data using SEMOTA.

Whether you use Interface measurement products for prototype testing, usability studies, manufacturing equipment, or small-scale testing machines, we have solutions that improve the use and viability of IoT wearables. Benefits of using Interface solutions in wearables include:

Accuracy: Load cells are highly accurate and can measure force and pressure to a very high degree of precision.

Reliability: Sensors using strain gauge technology are well-suited for use in wearable devices, as they are durable and can withstand repeated use.

Versatility: Devices can measure various forces and pressures, making them suitable for various applications.

Miniaturisation: Interface Force's Mini Load Cells are increasingly miniaturised, making them ideal for small, lightweight wearable devices.

Our force measurement solutions capture data and analyse forces exerted during the testing and prototype phases, ensuring optimal performance before wearable products are introduced to the public.

Read more about our solutions for wearable IoT technology here:
www.interfaceforce.co.uk

Get in touch to discuss how we can help with your wearable IoT project.



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Lascar Electronics' air quality product range: enhancing environmental monitoring & safety

In today's rapidly changing world, the importance of monitoring and improving air quality cannot be overstated. Lascar Electronics, a leading provider of data logging and monitoring solutions, offers a comprehensive air quality product range that empowers organisations to proactively address environmental concerns. With cutting-edge technology and a commitment to excellence, Lascar Electronics continues to deliver innovative solutions for efficient and accurate air quality monitoring.



We understand that air quality monitoring needs vary across industries and sectors. That's why our product range caters to diverse applications, from indoor environments such as offices, schools, and healthcare facilities to outdoor settings like industrial sites and construction zones. By offering a wide array of devices, Lascar Electronics enables organisations to effectively monitor air quality parameters and take appropriate actions to ensure the well-being of their employees and the surrounding community.

Our devices are equipped with state-of-the-art sensors capable of accurately measuring key parameters such as particulate matter (PM2.5 and PM10), carbon dioxide (CO₂) levels, volatile organic compounds (VOCs), temperature, humidity, & air pressure. Our products undergo rigorous calibration processes to guarantee reliable and consistent performance, providing users with peace of mind knowing that their air quality data is accurate and trustworthy.


Our air quality monitors enable real-time monitoring and provide instant alerts. This feature allows users to promptly respond to any deviations from acceptable air quality levels. Whether it's a sudden increase in particulate matter concentration or a rise in CO₂ levels beyond the recommended threshold, the monitors alert users via visual indicators, audible alarms, or through connected systems such as mobile apps or Cloud-based platforms. This immediate notification empowers organisations to take swift corrective measures, ensuring a healthy and safe environment for all.

Lascar Electronics understands that effective air quality management requires comprehensive data analysis. Our air quality product range seamlessly integrates with data logging platforms and software, enabling organisations to collect, store, and analyse air quality data over time. This integration allows

for the identification of patterns, trends, and potential sources of air pollution. Armed with this knowledge, your organisations can make informed decisions, implement targeted interventions, and continuously improve air quality standards.

Lascar Electronics' air quality product range offers a comprehensive and reliable solution for environmental monitoring and safety. By providing precision instruments, real-time alerts, and seamless data integration, Lascar Electronics empowers organisations to proactively address air quality concerns across various settings. As the importance of air quality management continues to grow, Lascar Electronics remains at the forefront, delivering innovative products that prioritise the health and well-being of individuals and communities worldwide.

www.lascarelectronics.com




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Using steamers to control & effectively remove bed bugs

Using Steamers to Control and effectively remove Bed Bugs Dry Steam is a highly effective method for killing bed bugs in all stages of their development if applied correctly. When using steam as a treatment, the quality and boiler temperature of the steamer is very important. As a guidance, a commercial steamer with a minimum boiler temperature of 150 degrees Celsius and 6 bar pressure or an even higher pressure should be selected - with a manual or digital steam volume control. It should be noted, however, that in this type of application it is the boiler temperature that is more important than the pressure.

The smaller type of steamer normally used to steam clothing or steamers with a boiler temperature below 150°C, will not be effective for bed bug treatment. Also don't use a carpet cleaning machine as this will virtually have no effect as Carpet cleaning machines do not reach high enough temperatures to kill bed bugs.

The OSPREYDEEPCLEAN Steam & Vac Pro is the ideal machine for this application. Dry Steam Machines work by delivering lethal temperatures to where bed bugs may be hiding. Steam is very effective when bed bugs are on the surface of items such as carpets, mattresses and can be effective up to 3-4" into fabric surfaces. In cracks and crevices, steam will kill bed bugs up to 3-8" into a gap. Use an infrared thermometer to monitor the surface temperature of the area being

treated. To effectively kill bed bugs the surface temperature should be at least 60-70 degrees Celsius (160-180°F) immediately after the steam tool has passed..

Following the manufacturer's directions for using the dry steamer (with the additional precautions) below will help you generate steam safely whilst obtaining maximum control of bed bugs.

Here are some additional tips to follow:

- ▲ Select a Dry Steam & Vacuum machine with a water filtration to capture the "waste".
- ▲ Attach a nozzle -or on flat surfaces- a carpet upholstery tool to the steam wand.
- ▲ For carpets, the floor nozzle will also work but the operator will have to move the nozzle more slowly to obtain the right temperatures and to increase the steam volume.
- ▲ Surfaces must reach a temperature range of 60-70 degrees Celsius (160-180°F). Below this, bed bugs may survive. An infrared thermometer should be used to measure surface temperatures after the wand has passed over the area being steamed. If the temperature is too low, move the wand more slowly but this may increase the risk of damage to the fabric and other materials. If the temperature is too high, move the wand faster.
- ▲ Fabric may be very slightly damp, afterwards but will quickly dry. Use the steamer on all



surfaces where you see bed bugs and areas where you think bed bugs may be hiding. You may have to repeat this procedure a couple of times as this method only provides control of bed bugs that are exposed to the heat, any bed bugs that do not come into contact with the steam will survive.

- ▲ Select the correct steam volume subject to the accessory chosen this should be set at low to medium level. Do not choose full volume as this would only blast the bedbug away but not kill them. Slowly move over the chosen area. Once completed switch on the vacuum at full level and use the steam and vacuum setting to slowly move over the same area again to collect all the "waste".
- ▲ Once the operator has completed 1 area/ room safely empty the waste container to drain or into a toilet and fill the waste tank with fresh water which basically is the new filter medium with HEPA filtration like efficacy. For a "Belt and Braces" approach there is the option to spray the surfaces with an approved insecticide for residual efficacy.

For more information and guidance in choosing the correct machine call OSPREYDEEPCLEAN on 01242 513123 or email sales@ospreydc.com.

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De-grease Machinery



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UAV survey lands data and cost benefits for factory owner

A drone survey carried out by Lanes Group plc is helping a major manufacturer investigate the drainage system on one of its sites in readiness for future development.

The unmanned aerial vehicle (UAV) survey provided a highly detailed digital map of the factory site near Peterborough, which engineers can use to plot drainage assets with impressive precision.

It was carried out by Lanes Group Rail (LGR), Lanes Group's rail division, in just one day when a conventional ground-based survey would have taken up to four days.

Significant cost saving

LGR Business Development Manager Bill Waring said: "The aerial mapping surveys we carry out are fast becoming an essential element of site investigations across all sectors, including rail.

"In many cases, they can be carried out by a team of one, rather than the three or four operatives needed to work at height from ground level. It's a significant cost saving, especially when time saved is factored in.

"Drone surveys also provide a hugely rich array of data that can be manipulated in many different ways to more accurately plot and understand the topography and built assets across large areas of land.

"They don't just allow surveys to be carried out more quickly, more safely and with less site disruption. They also allow data

then be prepared more quickly and more flexibly for analysis."

Eliminates site disruption

LGR's drone survey unit holds the required Civil Aviation Authority commercial operating permission and is on the drone survey framework for Network Rail.

Lanes drone pilot and surveyor Adam Blakesley carried out the survey of the factory site that manufactures ground engineering infrastructure assets.

He flew a DJI Matrice M300 drone fitted with the latest 4K video camera to capture all the required data across an area covering 68,000m². Esri Site Scan software was then used to process the images captured.

Adam Blakesley said: "We can stitch together many thousands of images taken during the drone flight into highly accurate orthomosaic images of the site. We can also create 3D models and point cloud images.

"These allow clients to view structures in very close detail without having to work at height, which may involve working from access platforms or erecting even more costly and disruptive temporary scaffolding.

"The advantages can be even more pronounced on rail networks. With the right precautions in place, drones can be flown over live rail assets with no disruption to services, negating the need to carry out surveys during engineering

possession time."

Flexible data analysis

The data gathered can be combined with other mapping software to plot assets across large areas with a great degree of accuracy.

This include WinCan drainage survey software used by Lanes CCTV survey teams, allowing data captured via drones to be merged with digital maps of underground drainage systems.

LGR has more than 30 years' experience of working in the rail industry on national rail and Transport for London networks, while Lanes subsidiary UKDN Waterflow (LG) holds a Principal Contractor Licence (PCL) from Network Rail.

The ability to deliver drone surveys adds significant value to LGR's capabilities and services, which include: conventional CCTV drainage surveys; track drainage and culvert cleaning and replacement; drain, sewer, and culvert lining; and vegetation control.

It also complements engineering services provided to the rail industry by Lanes Professional Services. They include drainage system investigation and design, and hydraulic engineering project management.

Talk to Lanes Group Rail about its drone survey service – for rail, commercial and industrial clients.

bill.waring@lanesgroup.co.uk
T 01708 528770.



Rubix sets new warehouse safety standards by leveraging Kardex solutions for hazardous storage

Rubix, a renowned global distributor of industrial products, teamed up with Kardex, to develop a cutting-edge hazardous materials storage solution. Rubix was faced with the daunting task of safely storing hazardous items like flammable liquids, that would not only meet the HSE (Health & Safety Executive) regulations but would also meet the standards of COSHH (control of substances hazardous to health).

At Rubix national distribution center in Wolverhampton, UK, operators pick and maintain multiple components and provide the available stock to customers. Rubix has been a long-time partner of Kardex, a global leader in smart intralogistics solutions. With more than 30 machines nationwide, they rely on Kardex's advanced technology to ensure fast, accurate, and safe order picking. After an audit, they needed a solution that adhered to strict regulatory standards.

Rubix made the decision to meet the strict HSE (health and safety executive) regulations and protect colleagues, customers, products, and the environment.

The idea was to find a solution that would ensure safe storage while reducing the touchpoints between operators and hazardous items. "We were driven to find a best practice health & safety warehouse solution, particularly one that would meet the standards of COSHH", explains Alistair Yates, Programme Manager - Logistics Function, Rubix UK. A solution was required that adhered to strict regulatory standards.



The Kardex solution enabled Rubix to centralise hazardous item storage, significantly reducing touchpoints and minimising risk. Labour demand is also more manageable requiring just 5 specialised and trained people touching these items. Overall, the solution supports fast and very secure picking. "To create a secure environment for



storing classified COSHH products like greases and aerosols, we installed two Kardex Shuttles and two Kardex Compact Buffers," explains Richard Ellis, System Sales Manager at Kardex Remstar UK.

Ensuring fast and accurate access to stored stock is a must and with a focus on safe, secure and clean storage, Kardex Compact Buffers store all small items, and all other items of mixed sizes are stored in Kardex Shuttles. "Our future plans include implementing the Kardex Frame Pick System to enhance our processes further. This will provide complete stock transparency and facilitate batch picking, supporting the ambitious goal of a fivefold increase which will deliver growth in the near future," shares Matt Luke, Logistics Director, Rubix UK.

[You can view a video of how this is managed here](#)

About Rubix

Rubix is Europe's leading distributor of industrial maintenance, repair and overhaul (MRO) products and services, carrying all premium brands. More than 8,500 employees are armed with the specialist knowledge and technical expertise to help customers solve their manufacturing and processing problems.

About Kardex

Kardex is a leading intralogistics solution

provider of automated storage, retrieval and material handling systems. With two entrepreneurially managed divisions, Kardex Remstar and Kardex Mlog, the Kardex mission is to provide solutions and services to increase the efficiency in storing and handling of goods and materials on a global scale.

The two divisions serve as partners over the entire life cycle of a customer's product or solution. From project analysis to realization and service, Kardex helps improve a customer's performance every step of the way. With three own production plants in Germany and one in North America Kardex ensures high quality solutions. To maintain and strengthen its competitive position within technological innovation and outstanding customer loyalty, Kardex is investing in research and development, its supply chain, the expansion of its service organization as well as in new technology via acquisitions. Kardex actively partners with global leaders who share the same values and complement the Kardex solutions including AutoStore, Rocket Solution, Robomotive, Intertex and Sumobox.

Kardex employs 2,000 team members across 30 countries and has installed over 140,000 industry-specific solutions worldwide.

www.kardex.com



Introducing the 5-Point Maintenance Program for On-Site Safety Shower!

At Aqua, we understand the importance of keeping your on-site safety product in optimal condition to ensure the well-being of your workforce. That's why we're excited to offer our comprehensive 5-Point Maintenance Program, designed to maximise the longevity and effectiveness of your safety equipment. With this program, you can minimise downtime, enhance safety compliance, and prolong the lifespan of your investment. Let's take a closer look at the five key points of our maintenance program:

Regular Inspections: Our team of trained technicians will conduct regular inspections of your on-site safety product, carefully examining each component for signs of wear, damage, or malfunction. By catching potential issues early on, we can address them protectively and prevent any major breakdowns or accidents.

Cleaning and Lubrication: Proper cleaning and lubrication are essential for the smooth functioning of your safety equipment. We will thoroughly clean all parts, removing dirt, debris, and other contaminants that could compromise performance. Additionally, we will apply appropriate lubricants to ensure optimal operation.

Maintenance and inspection: Failsafe

maintenance and inspection are crucial to guarantee safe and reliable operation. Our experts will calibrate your safety product according to industry standards, making necessary adjustments to maintain availability in times of need. This step is vital for equipment used in remote site locations with variable environmental temperatures.

Component Replacement: Over time, certain safety product components may wear out or become obsolete. As part of our maintenance program, we will identify any worn-out parts and promptly replace them with high-quality, manufacturer-approved replacements. This proactive approach minimises the risk of equipment failure and maximises overall safety.

Documentation and Reporting: Our maintenance program includes comprehensive documentation and reporting. We will keep detailed records of all inspections, repairs, and replacements performed on your safety product. These records can be invaluable for compliance audits, insurance purposes, and tracking the maintenance history of your equipment.

By enrolling in our 5-Point Maintenance Program, you can enjoy the following benefits:

▲ **Enhanced safety:** Regular maintenance



ensures that your safety product is functioning optimally, reducing the risk of accidents and injuries.

- ▲ **Improved equipment lifespan:** Proper care and maintenance extend the life of your safety equipment, saving you money on premature replacements.
- ▲ **Compliance assurance:** Our program helps you stay in compliance with safety regulations and standards, giving you peace of mind during inspections.
- ▲ **Minimised downtime:** Proactive maintenance reduces the likelihood of unexpected breakdowns, keeping your operations running smoothly.
- ▲ **Expert support:** Our trained technicians possess the expertise to identify and address any issues, providing reliable and efficient service.

Invest in the longevity and reliability of your on-site safety product with our 5-Point Maintenance Program. Contact us today to learn more and schedule your maintenance sessions. Your workforce's safety is our top priority at Aqua!

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Cirrus Research

From rising levels of noise pollution in urban areas to concerns over air quality, these issues have a profound impact on the well-being of citizens and the sustainability of industries. To address these challenges, the field of environmental monitoring has emerged as a critical sector within the broader technology and engineering landscape.

Environmental monitoring solutions encompass a range of sophisticated technologies and data-driven approaches aimed at tracking and mitigating environmental factors. This includes monitoring noise levels in cities, assessing air quality in industrial zones, and measuring vibrations caused by construction activities. Such monitoring is not only essential for regulatory compliance but also for the overall quality of life and safety of individuals living and working in these environments.

In this context, companies like Cirrus Research play a pivotal role by developing innovative and reliable monitoring solutions. These solutions provide real-time data, enabling businesses and government authorities to make informed decisions to improve the environment and safeguard

health. Cirrus Research's mission revolves around creating innovative solutions that enhance the way we monitor and manage noise and other environmental impacts. They have not only revolutionised the field of noise monitoring but also expanded their expertise in air quality, vibration, and more.

Cirrus Research's cloud-based monitoring solutions, Quantum Indoor and Quantum Outdoor, have had a profound impact on businesses and communities across the UK. By providing real-time data on noise, air quality, and vibrations, they empower businesses and local authorities to make informed decisions. This data-driven approach not only ensures compliance but also fosters healthier, quieter, and more sustainable living and working environments.

These cloud-based monitoring solutions have not only changed the way we perceive data but have also transformed the way we live and work in the UK.

Find out more:

<https://www.cirrusresearch.co.uk/blog/2023/11/quantum-award-of-excellence/>



Leicester Bearings Announces Partnership with Inpro/Seal for Bearing Protection Products

Leicester, UK – Leicester Bearings, a leading nationwide provider of engineering components, consumables and associated mechanical services, is pleased to announce its partnership with Inpro/Seal, a reputable manufacturer and distributor specialising in industrial and mechanical bearing protection components. This strategic collaboration aims to strengthen the distribution network for their high-quality bearing products in the UK.

Leicester Bearings has established itself as a trusted name in the engineering and mechanical distribution sector, known for its commitment to quality, reliability, and exceptional customer service. With an extensive network and a proven track record of delivering high quality products to various industries, they align seamlessly with Inpro/Seal's values and commitment to excellence.

The partnership with Inpro-seal marks a significant milestone for Leicester Bearings as they expand their reach and accessibility within the UK market.

Customers can now expect easier access to state-of-the-art bearing protection products, designed to provide proven permanent bearing protection, enhance equipment reliability, reduce maintenance costs, and extend the lifespan of critical machinery, all at an affordable price point.

Carl North, Regional Sales Manager at Inpro/Seal, expressed enthusiasm about the collaboration, stating, "We are thrilled to welcome Leicester Bearings to our growing network of partners. Their dedication to providing top-tier solutions aligns perfectly with our commitment to delivering cutting-edge bearing protection products. Together, we look forward to serving the needs of the UK market more effectively."

Jamie March, Managing Director at Leicester Bearings commented on the partnership, "Leicester Bearings is excited to join forces with Inpro/Seal. This collaboration enhances our product portfolio and allows us to offer our customers access to premium bearing protection solutions. We are confident



that this partnership will bring mutual success and contribute to the satisfaction of our valued clients."

For nationwide enquiries, pricing, or to place an order for bearing protection products, please contact Leicester Bearings on 0116 2549886, email sales@leicesterbearings.co.uk or visit www.leicesterbearings.co.uk.

New StopTite Industrial range

The NEW StopTite Industrial range has been launched to provide high-quality premium solutions for thousands of applications across industry. Products are available in colour-coded categories, and include threadlockers, retainers, pipe sealants, gasketing and adhesives for mechanical assemblies.

StopTite products offer outstanding mechanical properties with a temperature range of -50 to 200°C+. The threadlocker product helps to prevent the loosening of bolts, studs and screws, due to vibration and shock loads. It can also be used to permanently lock threaded components. The Retainer products offer excellent resistance to shear and compression and can be used for the permanent fixture of bearings, shafts, splines and keys.

The ST27 Pipe Sealant product offers an instant low-pressure seal on tightened fittings up to 150psi.



The ST31 Multy Gasket offers resistance to low pressures after the assembly of mating flange faces. Seal joints between metal faces and flanges. Ideal for motoring and industrial applications.

The 007 and 006 high-strength

adhesives have been designed to bond metal and composite applications, offering high-impact resistance while remaining quick and easy to use.

Made in Britain, the StopTite range has been developed by S2-lube, which has been formulating a wide range of industrial products with partner companies for over 40 years. The company's products are popular with various industries, including renewables, water, electronics, construction, military, aircraft, farming, leisure, automotive and all types of production lines.

Product is supplied to stockists as retail display boxes of 6 to 20 items.

Free samples are available and can be requested by emailing sales@stoptite.co.uk or calling 01584 874220.

www.stoptite.co.uk



British Adhesives & Sealants Association



This is BASA's 40th year of operation and we are still excelling in our mission to remain the umbrella organisation for UK adhesives and sealants manufacturers. Focussing on technical and legislative aspects and on promoting awareness of the industry and technology by providing guidance on technical and compliance issues, we create a variety of networking opportunities for members and provide a huge library of documents on the website.

BASA is the voice of the adhesives and sealants industry's and is an information source for manufacturers and suppliers. The association advocates on

behalf of its members and liaises with Government regarding legislation and keeps Members well informed of UK, EU and International proposals and initiatives.

With the growing concerns around the environment and using sustainable products and raw materials, BASA is dedicated to helping its members minimise harmful chemical usage and educate the public on the industry's drive for safer products. BASA members work hard to formulate innovative products that positively contribute to the sustainability agenda whilst maintaining performance and durability.

BASA hopes to continue to reach more potential members, looking at ways to support its manufacturers post Brexit and help them to navigate potential new legislation and trade rules.

Contact
T 03302 233290
secretary@basa.uk.com
www.basa.uk.com

Adhesives & glue guns



AdCo UK is one of the largest manufacturers of shaped hotmelt adhesives and water-based adhesives for use in packaging and product assembly markets for over 21 years, from its Head Office and manufacturing facility in Liphook Hampshire with additional distribution facilities based in Leeds UK and a network of approved distributors based throughout the UK.

As well as supplying adhesives for all requirements, AdCo supplies a wide range of specialist applicators – from ProFlex industrial, heavy duty and professional glue guns to total melt, cartridge and bulk systems, we also manufacture and supply UF resins, PVA Adhesives, PU Adhesives, Tapes and much more

As part of our commitment to

offer our customers the correct solution for their needs AdCo are continually investing in research and development along with new state of the art manufacturing equipment to ensure we continue to meet the ever changing needs of all types of industry.

Thanks to our unrivalled knowledge of adhesives and application techniques, our highly skilled technicians can offer a 'find and supply' service to all our customers. With a combined industry experience of over 120 years, our technicians can ensure that any bonding problem can be solved quickly and efficiently.

01428 751755
enquiries@adco.co.uk
www.adco.co.uk

Visit the website to find out about the costs and benefits of joining the Association.

STRONGER BONDS MAKE BETTER BUSINESS

'BASA's members support efforts to improve product efficiency and circularity to help create a more sustainable society, promoting the concepts of energy saving, material efficiency, reparability, durability and recycling.'

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Patented Dripless Nozzle

AdCo's HD 250 NV is a true standout among industrial-grade hot melt glue guns, and a go-to tool for contractors and tradesmen in many fields of work.

The 'NV' stands for 'needle valve,' an exclusive AdCo design feature which allows the user to lay down precise, uniform glue lines, with perfect cut-offs and no more dripping and stringing!

This exceptional quality tool sports cushion-padded grips, an easy-squeeze trigger, and a removable wire base stand which makes it easy to use in any work environment.

The 225 watt PTC heating system allows for quick heat-up times to its preset temperature of 210°C, and the ability to dispense upto 1.5 kilos of glue per hour.

Output / Hour
1.5 kilos

Retail
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Eliminates Stringing

Patented Dripless Nozzle

FEATURES & HIGHLIGHTS

- Needle valve nozzle
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- Operating temp: 210°C
- 225-watt PTC heating system
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- Comfortable 4-finger trigger
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3 Second Set Time

900

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The next MIPC course runs from 4 March 2024 for 27 weeks, 4 hours flexibly per week. Open to all practitioner-level engineers – Registration open now. Induction to fit around work schedules during February 2024.

EEMUA 231 MECHANICAL INTEGRITY BASICS – NEXT COURSE BEGINS 26 FEBRUARY 2024

Blended online learning for people responsible day-to-day for ensuring mechanical integrity of plant and equipment where hazardous substances are present.

- ▲ Managing the primary containment envelope.
- ▲ Ageing plant.

- ▲ Delivering and demonstrating integrity management.
- ▲ Legislative requirements, good practice and Competent Authority expectations.
- ▲ Learning on-site – live online classes, e-learning, 1-1 tutorials for real-time interaction.
- ▲ CPD – 15 hours including exam.

Open to all, learning on the next EEMUA 231 Mechanical Integrity Basics course starts 26 February 2024, with a 2-hour Induction to fit diaries – open now.

Please feel welcome to contact your EEMUA team:

online-learning@eemua.org
T +44 (0)20 7488 0801



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its associated downtime. By fitting a quality designed swivel, you are improving your production capacity.

Swivel joints will allow the movement on a slowly rotating drum or remove the damaging effect of twisting on hoses. The photo attached is of a 3" hardened carbon steel unit with specific end connections for use in the oil and gas drilling. Please visit our Previous Projects page on our website for more examples of our swivels in use.

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



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

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

This is our approach at UNISIG:

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

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

When it makes sense, our experienced sales team or engineers will visit a customer to see what is needed firsthand. Whether a site visit or just a virtual meeting, this initial investment of time to clarify the need saves the customer money and provides them a truly valuable solution.



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

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

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

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

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

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

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

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

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

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

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

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

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