

Best Practice



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The British Adhesives & Sealants Association (BASA) launches a new awards programme with a gala event in November



BASA has been representing the adhesives and sealants sector since 1983, and a new initiative open to all BASA member companies will recognise excellence and achievement within the adhesives and sealants industry.

Award categories include Manufacturer of the Year, Excellence in Supply & Services, Marketing Campaign of the Year, Best Product Packaging, Process Safety, Excellence in Training & Development, Community Engagement, Young Achiever, Environment & Sustainability Initiative, and Innovation.

"Sustainability and Innovation is really important to BASA and formally recognising our member companies' achievements and excellence in these and a number of other areas is an exciting development," says Lorna Williams, BASA CEO.

"We are looking forward to maximum engagement and of course we look forward to receiving members' entries and seeing everybody in November!"

Entries close on 29th July and details and criteria for each category, as well as the entry form, are available on the BASA website. If you are interested in sponsoring the event, please contact us.

The event, to be held at East Midlands Conference Centre, Nottingham on 22nd November, will be hosted by



comedian, Jimmy McGhie and will include dinner and entertainment. Tickets are now available for purchase online.

Contact Lorna Williams,

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Editor's Notes

Liz Dickinson
Editor



Welcome to our October issue of Best Practice, where we bring you a round-up of all the latest developments from across the sector.

Think you know plastic? Think again. Often referred to as the 'villain of sustainability'- many companies are actively looking to reduce plastic usage or avoid it altogether. Bryant Plastics is asking us to rethink our relationship with plastic on page 22 and is our BP Recommends Company. The extensive range of plastic Roll Cages, Linen & Laundry Cages, Trucks & Trolleys, Bins, Tanks, Tubs and Cans and popular spring-loaded platform Self-Levelling Trolleys are made from Virgin M.D.P.E. plastic which can be recycled and used for 100 years or more.

From plastic sustainability to sustainability and innovation across the adhesive and sealants industry, The British Adhesive & Sealants association (BASA) has launched a new award programme open to all BASA members. At the inaugural award ceremony this November, selected companies demonstrating excellence in sustainability, innovation and other areas will be formally celebrated.

Turn to page 1 to find out more and to book tickets.

Health & Safety is a pressing concern for everyone and especially for SMEs starting out. How do you navigate the minefield of H&S regulations? Westley Lansdowne Safety Consultancy offers expert H&S advice to SMEs and is our second BP Recommends company. With proven expertise across the nuclear, rail, aerospace and transport sectors, the company is looking to launch a new Expert Witness service next year and diversify its general consultancy client base. Interested?

Turn to page 17 for more.

Email your news to:
liz@bestpracticeuk.co.uk

BASA

British Adhesives Sealant Association

BASA has been representing the adhesives and sealants sector since 1983, and a new initiative open to all BASA member companies will recognise excellence and achievement within the adhesives and sealants industry.



See page 1

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ECO PHYSICS AG, world leader in innovative NO/NO₂/NO_x/NH₃ and O₃ measurement, ranging from 1 ppt up to 1%

A passion for innovation

ECO PHYSICS AG offers innovative analytical solutions for measurement tasks in the fields of environment, health and process control. With our interdisciplinary research and development team we are delivering customer oriented and tailor-made products and services.

The spirit of our staff

Researchers and Engineers at ECO PHYSICS AG are aware of our clients' individual requirements and are therefore focusing on finding the most fitting and innovative solutions. Our interdisciplinary staff combines academic, economic and technical skills and possesses decades of experience in environmental analysis and related market forces.

This enables ECO PHYSICS to fulfill the requirements of governmental regulations, which continuously demand higher sensitivities and faster response times.

Since 1989 ECO PHYSICS analyzers are detecting Nitrogen Oxide based gas molecules in a wide range of applications, including components such as NO, NO₂,

NO_x, but also O₃, and NH₃, in a fast and reliable manner with a unique precision.

We are advancing progress

The reduction of the amount of Nitrogen Oxides in our atmosphere is one of the decisive factors to achieve a reduction of the boundary layer ozone. As a result, new regulations are calling on much lower levels of emissions. You can rely on analyzers from ECO PHYSICS, which provide a wide variety of instruments, measuring from 10'000 ppm (1%) down to 1 ppt (part per trillion) and all relevant concentration ranges of NO and NO_x between.

Background ambient measurements of air pollutants from aircraft require the most sensitive analyzers available. In order to study the influences in the lower stratosphere, a sensitivity as low as a few ppt is required.

The task can be compared to finding the volume of a pin head in a gym hall. The impact of air traffic and the state of the atmosphere are the driving factors for the upcoming international guidelines for the aircraft industry.

For their research our customers benefit from the highly sophisticated, available instrumentation from ECO PHYSICS AG.

Modularity offers a cost benefit

The chemiluminescence technology is based on a combination of components, which are matched and optimally adapted to the individual needs of your application.

Therefore, ECO PHYSICS is offering a new approach with the key being flexible configuration. Modularity allows the user to custom tailor their instrument and upgrade it as needs change.

Ease of operation

ECO PHYSICS uses a clear menu structure and simple commands to operate its newest analyzer series nCLD. The Graphical User Interface operates via an integrated touch panel PC. It enables also remote access, control and diagnose functions, which also increases the simplicity of service.

The right decision

ECO PHYSICS AG established a worldwide network and

is manufacturing analyzers for precise, fast and reliable measurements of Nitrogen Oxide-based gas components. They are designed for applications:

- ▲ Environmental Monitoring.
- ▲ Research and development
- ▲ Process gas production and Quality assurance
- ▲ Automotive and combustion engines
- ▲ Semiconductor / Wafer production

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www.ecophysics.com

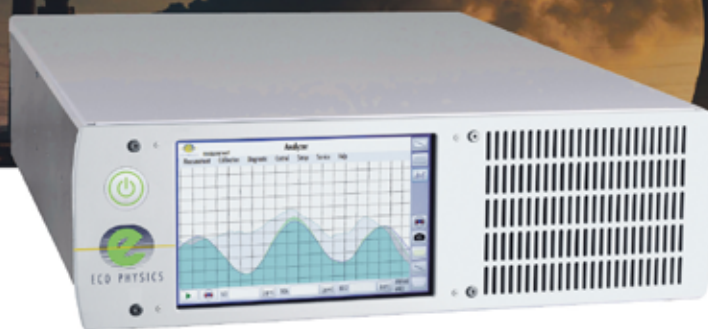
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<https://www.youtube.com/watch?v=Pi8aa5uwtN0>

RS232 Communication
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Analog In/Out
<https://www.youtube.com/watch?v=dIj6f5NM-PK>

ECO PHYSICS nCLD "Facelift" boxed solutions

AL, AL², EL S, EL, EL²



Measurement of:
 NO · NO₂ · NO_x

- 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

The one- and two-channel chemiluminescence based NO_x analyzers of the nCLD "Facelift" box-solution analyzers detect NO, NO₂ and NO_x at concentrations ranging from 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.



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sponsors this issue of **Best Practice** – see them on page 17



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....
<https://interfaceforce.co.uk>



Building Trust in Custom Machinery:

INDUS Engineering's End-to-End Approach



INDUS Engineering Services specialises in industrial maintenance for small to medium companies on the South Coast of the UK.

The company's primary focus has always been to serve as an outsourced maintenance department for SMEs that lack the internal resources to manage their maintenance needs. They offer a service that bridges the gap between having a regular in-house maintenance team and the specialised expertise typically provided by original equipment manufacturer (OEM) technicians. This approach ensures that businesses can rely on expert maintenance without needing full-time staff, enhancing operational efficiency.

There have been positive changes for INDUS recently, in particularly over the last 18 months which has seen the company move premises, enabling them to expand their production capacity. This is part of an ongoing project aimed at further developing the facility by increasing floor space and creating specialised work areas to accommodate their diverse workload. These improvements are designed to enhance operational efficiency and support the company's growth.

Over the years, INDUS has worked with several high-profile clients, consistently delivering on their requirements with efficiency and reliability. The company has also expanded its services, now offering a range of customised control and automation solutions to both local and national clients. This diversification reflects INDUS's commitment to evolving alongside client needs while maintaining a high standard of service.

"We are currently focused on increasing our profile in the bespoke machine building sector, to include increasing our control and automation systems offerings," said Richard Thomas, Director.



When expanding business operations, general-purpose machinery may not always meet specific needs. Assembly, handling, and testing processes often vary by industry, requiring specialised equipment that standard machines can't provide, therefore, a custom solution may be essential to elevate business efficiency.

INDUS designs and manufactures bespoke machinery tailored to diverse industries. Their custom-built equipment streamlines operations and boosts productivity, helping businesses reach new levels of performance. Whatever the project, INDUS can deliver machinery that fits unique operational requirements.

From providing a comprehensive design, manufacture, or commissioning services for special purpose machinery, INDUS works with you from inception to implementation, delivering a full turnkey solution tailored to your needs.

"Each piece of machinery we create is customised to your unique specifications,



from the largest-scale modules down to the tiniest components.

Thanks to our years of expertise, we can identify the most cost-effective option for your requirements: either a fully bespoke piece of equipment, or a compound system that combines special purpose machinery with standard machinery. Either way, we'll deliver a solution that maximises your business's efficiency while minimising its expenses.

Our options are limitless! We create special purpose machinery for all sectors and applications. Working across several disciplines, both in-house and with our trusted local suppliers, we can build equipment for countless mechanical, electrical, fluid power, and mechatronic applications," stated Richard.

To guarantee an exceptional level of quality, INDUS combines high-grade materials with cutting-edge manufacturing techniques. Some of the special purpose machinery they have supplied in the past include automated production lines, rotary indexing tables, automated parts handling and orientating,



control systems, assembly and testing equipment, welding and cutting equipment, manual workstations, and packaging and processing machines. It can be challenging to trust a company to build special-purpose machinery because of the high stakes involved — businesses need tailored solutions that fit unique operational demands. At INDUS, they offer a comprehensive start-to-finish service, ensuring each step, from design to installation, is handled with expertise. After discussing requirements, they create detailed blueprints, either drawing from proven mechanisms or designing from scratch. Once approved, they move into manufacturing and fitting, with scheduled maintenance provided to ensure long-term reliability. This approach ensures confidence and smooth operation for years to come.

Looking ahead, INDUS continues seeking growth.

"I hope that over the next 12 months we will be able to grow our current team by at least one new member, and possibly increase our back-room staff to allow us to continue delivering our high-quality services in the best possible way.

Any change in government will always bring about change and may present challenges to the business, these will inevitably be both positive and negative in their own ways. We hope that these challenges can be addressed by our experienced staff, ensuring that our commitment to our clients can be maintained at all times," said Richard.

INDUS is attending Machine Building Live 2024 on the 2nd of October, and also plans to attend Southern Manufacturing 2025 in the new year. INDUS will aim to exhibit in at least one more trade show in 2025, however, plans for this have not yet been finalised.

For more information, see below.
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<https://www.indusengineering.co.uk>





All in one motion monitoring



Wieland Electric is literally bringing movement to its safety portfolio: With samos © PRO MOTION, the technology company presents a new all-in-one safety controller with integrated motion functionality.

A total of six TÜV-certified motion function blocks ensure that up to 60% fewer modules are required and therefore more space is available in the control cabinet than with comparable providers. Among other things, the compact, programmable controller enables safe standstill monitoring, even with vertical and slow-moving axes, and also scores points with an anti-vibration toolbox for macro and micro vibrations.

Whether mechanical engineering or intralogistics – wherever reliable standstill, speed, direction and position monitoring is required, the compact safety controller from Wieland Electric with up to 70kHz motion inputs on the base module is suitable.

The integrated motion function modules include safe standstill monitoring (SSM), which can be implemented with both a speed window and a position window.

The limits of the position window or hysteresis can be defined very easily using intuitive configuration options, allowing vertical and slow-moving axes to be monitored reliably and continuously, for example in construction cranes,



lifting platforms, high-bay warehouses or presses.

Also on board the samos © PRO MOTION is an anti-vibration toolbox, which is available via the samos © PLAN6 software and supports reliable standstill monitoring during commissioning, calibration, maintenance, cleaning or even tool changes. This is precisely where vibrations can occur, which can be resolved using the appropriate functions: While the 'standstill' function module comes into play for macro vibrations, Wieland Electric has built a professional 'vibration filter' into the motion functions for micro vibrations.

This allows users to find the optimum compromise between availability and safety within the framework of three options. The documentation for the safety control is also helpful, as it provides a clear overview of which safety level can be achieved with which filter option.

As with the samos© PRO safety controller, Wieland Electric also offers powerful programming software for the new samos an extensive library of TÜV-certified function blocks that contain typical, application-specific safety functions.

The simple handling via drag & drop significantly reduces engineering effort, project planning time and also the possibility of errors. Users also benefit from simple documentation and save time with the CE declaration of the machine. With the integrated one-click documentation, the documents for the CE declaration of conformity are available at the touch of a button, saving time in the approval process.

Visit us at <https://www.wieland-electric.com/en>

Mechanical Integrity Training with reality built in...

Developed and verified 'for industry, by industry', EEMUA 231 Mechanical Integrity courses come with reality built in for industrial engineers at every career stage. For efficient hands-on work with primary containment – to prevent loss of hazardous substances.

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Mechanical Integrity Practitioner Certificate (MIPC®) – blended, live online learning for on-site application of EEMUA 177, 231 and 232 guidance, and the PSSR ACOP – certificated for 5 years via a proctored exam and portfolio assessment – Continuing Professional Development approval – **Next course begins 21 October 2024** for 27 weeks, 4 hours per week. The MIPC course adapts to engineering needs of each Learner, company and site by a **2-hour induction to fit work from September 2024.**

EEMUA 231 Mechanical Integrity Basics – certificated via exam – blended, online learning – Basic application competency level – 4 hours of learning per week for 3 weeks – **Next course starts 3 February 2025.**

EEMUA 231 Mechanical Integrity e-learning – at the Awareness level – immediately available **on-demand** – with **Continuing Professional Development approval.**

EEMUA 231 Mechanical Integrity In-house training – running over 1 day or 2 half-days – Awareness level – by arrangement, for **your choice of time, location, and method of learning** – Continuing Professional Development approval.

Also... External Corrosion Seminar – by EEMUA and AMPP Benelux – **Haarlem, NL – 10 October 2024.**



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Game changing installation of Mycronic equipment

European Circuits Limited is a privately owned company based in Glasgow. Established in 1999, ECL is one of the few companies in the UK that genuinely offers PCB fabrication and assembly from a single location as well as services such as cable assembly, product build and test.

In November 2022, European Circuits installed a Mycronic YPro Series MY700 Jet Printer and Dispenser and Mycronic MY300LX Pick-and-Place.

Mycronic jet printing technology makes it possible to dispense solder paste for the most challenging circuit boards and components, with micrometer accuracy, maximum speed and perfect quality solder joints.

In addition to the Solder Paste Printer, European Circuits has also invested in a Mycronic MY300LX Pick-and-Place. The MY300 delivers SMT pick-and-place at



next level precision and flexibility in a fast, small and smart format.

Philip Briscoe, Sales Director of European Circuits Limited, commented, "The investment in the Mycronic equipment was described by one customer as a game changer for ECL. It absolutely is and demonstrates our commitment to supplying high quality Printed Circuit Board assemblies produced right here in the UK for a whole range of industries throughout the UK, Europe and beyond."

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info@european-circuits.co.uk
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How to make your air compressor more energy efficient

It is estimated that air compressors account for more than 10% of the total energy consumed by UK industry, but many of these are unfortunately old and inefficient.

There are several ways to increase energy efficiency, however, when it comes to compressed air:

First, choose a compressor with the best Specific Power. This is the energy efficiency rating of a compressor. The lower the Specific Power, the greater the efficiency, and the higher the energy and money savings.

Second, explore the merits of Heat Recovery. A rotary screw compressor converts 100% of the drawn electrical energy into heat. Up to 96% of this energy can be recovered. Energy costs can account for up to 80% of life-cycle costs over the lifetime of a compressor. By using heat recovery, these costs can be significantly reduced.

Third, utilise energy-saving control. Some of the biggest energy savings in a system can be achieved with an air compressor

master control system, which can identify wastage, make predictions and make necessary adjustments to ensure significant energy cost savings while delivering a reliable, consistent and efficient compressed air supply.

You can achieve all three of these with HPC KAESER compressors. With market-leading Specific Power and Heat Recovery Systems and state-of-the-art Compressed Air Management Systems via the Sigma Air Manager (SAM4.0), saving energy has never been easier with HPC KAESER compressors.

Whether you're keen to be greener or looking to reduce overheads by thousands of pounds, switching to the most energy efficient air compressors can help. And, until 31st July, you can claim a "Climate Bonus" discount when you buy one!

HPC is offering discounted prices on the energy-saving SX, SM, SK & ASK ranges. So, contact HPC via info@hpcplc.co.uk for more details or visit <https://www.hpcplc.co.uk/greendead>

Anua Clean Air: Air pollution control specialist

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

Our Monashell™ and CrumRubber™ use recovered materials as the critical filtration component. The unique properties of these materials enhance capture and treatment which in turn provides multiple environmental benefits in terms



of Circular Economy, Carbon Footprint (low water and energy requirement and no consumables) and removal of harmful atmospheric pollutants.

During the past number of years along with its parent Company Anua Clean Air International limited and Italian Sister company Air Clean SRL we have been very active in the UK, Ireland and in overseas markets including Italy, France, the Middle East, China and the US. International Reference projects include Dual Pass Monashell Installations in Riyadh, Jeddah, Laguna Lake in the Philippines, Coimbatore in India, and Sindos in Greece. For our new CrumRubber technology we have supplied new installations in the Canary Islands, China, Oman and UK and Ireland. We are also currently working with Air Clean USA on the delivery of a number of new installations for the US market.

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

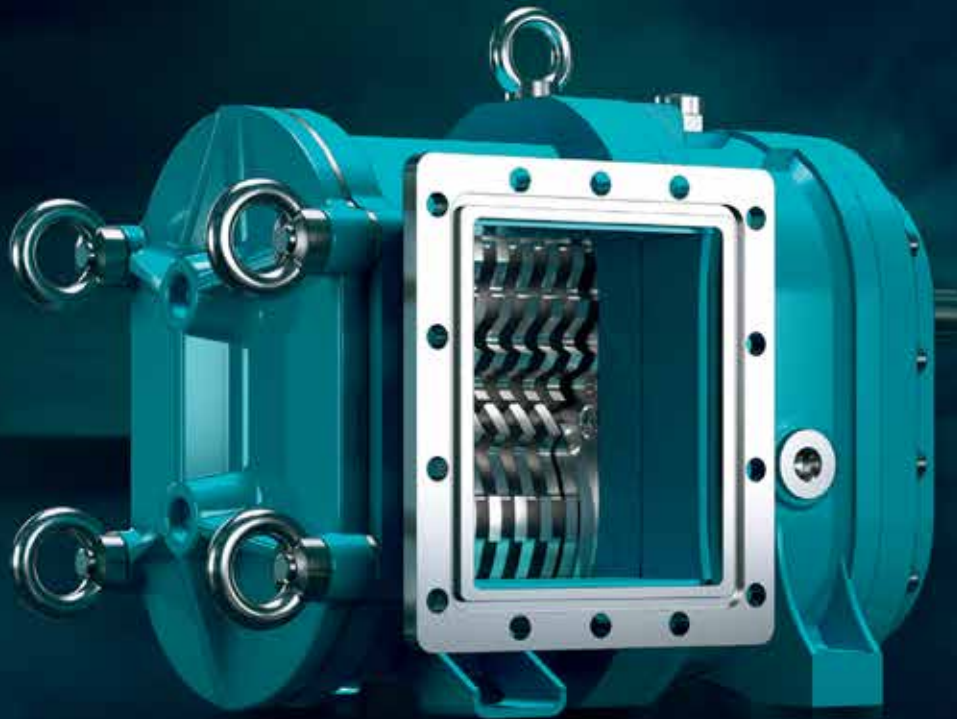
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45 years of success!

olivervalves

As we celebrate 45 years of success at Oliver Valves, we know that none of it would have been possible without the dedication of our incredible team of dedicated staff.

Today, we want to shine a light on one of our longest-serving members, Jimmy Dalzell, who has been with us for an impressive 36 years. Starting as an assembler in 1988, Jimmy's mechanical expertise and commitment have been instrumental in some of our most significant developments, including the introduction of our ball valve, DBB, Valvetek, and Twinsafe ranges.

Jimmy's journey with Oliver Valves has been marked by countless contributions, from hands-on assembly and pressure testing of products that began as ideas and grew into industry standards. Reflecting on his career, Jimmy fondly recalls the early days, particularly a his first interaction with Dr Michael Oliver when he humorously asked Jimmy, "Have you gone to sleep there, pal?" as he filled out his job application. It's a memory that perfectly captures

the friendly and supportive atmosphere that has made Oliver Valves more than just a workplace.



The two photos below show Jimmy with Mark Oliver and Colin Bell in 1991 and again last year as they recreated the image.

Thank you, Jimmy, for your unwavering dedication and for being such an integral part of our journey. Here's to many more milestones together!

Visit us at
www.valves.co.uk

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

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

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

Manufactured from 316 Stainless Steel, Super Duplex, and Titanium materials, valves are to be used in cooling systems and firewater applications. Regional Manager for Scotland and Scandinavia, Colin Wood, says, "We're extremely proud as a business to supply valves for operation on large-scale green energy projects, and it's particularly exciting to be working with a UK-based green project, such as Hornsea 3."



We're committed to supporting a Net Zero Emission future, and have recently launched a range of zero seat leakage valves for hydrogen applications.

Our investment in designing new and innovative valve technologies is having an enormous impact and is hugely significant – even a game changer!"

For more information on how Oliver Valves can support your green energy project with the very best valve solutions, contact us on +44 (0)1565 632 636 or email sales@valves.co.uk
www.valves.co.uk

 **RMIG SOLUTIONS**

Passion for perforation

Industrial Processing

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

One particular area of Industrial Processing is dealing with waste water. The water industry presents a number of unique challenges in the use of perforated products. A key consideration here is the aggressive nature of the water towards the materials being used. RMIG Solutions has vast experience in servicing the waste water industry, and produces high flow, burr-free perforated waste water screens, offering accurate screen tolerances and effective separation.

For more information: 01925 839610 • info.uk@rmig.com • www.rmigsolutions.com





Control Station

Making optimisation easy!



Control Station is the industry-leading provider of monitoring and tuning solutions. The cutting-edge software and solutions empower manufacturers to enhance production efficiency, drive sustained improvements, and integrate digital transformation.

Spanning across almost 70 countries, the company's global customer base encompasses multiple industry applications including: pharmaceuticals & biotech, manufacturing, mining, chemicals, food & beverage and oil & gas, demonstrating that Control Station is at the forefront of the process analytics field.

In the USA, Control Station operates from Manchester in the state of Connecticut, with the second Irish base in Roscrea in County Tipperary managing the European, Middle East and African markets (EMEA).

"Control Station now licences solutions to

over half of the prestigious Fortune 500 manufacturers ranked by largest annual revenues."

"We drive monitoring, diagnostics and optimisation through our Lifecycle Solutions. PlantESP™ monitors plant-wide control systems, identifying production issues, conducting root-cause analysis, proposing corrective actions, ensuring optimised production systems, minimising downtime, and magnifying efficiency."

"The award-winning LOOP-PRO™ is our principal software for process modelling and PID controller tuning, perfect for noisy and dynamic data applications, making it a prized asset for industries with complex processes. It has received leading industry recognition for the Engineer's Choice Award as the best PID Controller Tuning Software and it is a double winner of Chemical Processing Magazine's Vaaler Award."

"We don't stop there."

"Our Practical Process Control workshops train professionals to diagnose and fix control-related issues, licensed by 200+ global colleges and universities and certified by leading process manufacturers." outlined Damien Munroe: Managing

Director Integration EMEA Region | PID Tuning and Monitoring Software for Process Optimisation.

Looking to the future, sustainability will be an ongoing dominant driving force across all the solutions in software and service. This is evident in how the digital lifecycle solutions already standardise work practices, save resources, reduce waste, and minimise energy consumption.

For more information, please see the website below: <https://controlstation.com>



Speak to our expert at **00353 876559966**

Simple solutions for complex needs

Control Station offers advanced software solutions for process optimization and control, helping businesses improve operational efficiency and reduce costs.

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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 (wind 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.

Contact us today for the latest available fiber lasers

We have meticulously tested all duty cycles and penetration levels and they are all coupled with auto single or double wire feed, with water-cooled refrigerant, with superior components like refril laser guns and maxphotonics. Our latest upgrades have nozzle changes to allow laser weld cleaning functions.

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 bright world.

Visit the East Yorkshire showroom today!

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

T 01482 420491

T 07743 989565

info@ukmachinery.uk

<https://ukmachinery.uk>

<https://www.linkedin.com/in/andy-n-629859a0>

<https://twitter.com/usedmach>





Illuminating Safety

Wireless Bluetooth Networked Lighting Control in Hazardous Areas

In hazardous environments such as oil refineries, chemical plants, and mining operations, the advent of wireless Bluetooth networked lighting control represents a significant leap in safety and efficiency. These settings demand rigorous safety standards and reliable technology to ensure worker well-being and asset protection. Wireless Bluetooth

lighting control offers a robust solution that enhances both safety and operational efficiency.

Traditional lighting systems in hazardous areas rely on hardwired connections, which can be cumbersome and costly to install and maintain. Wireless Bluetooth technology eliminates the need for extensive wiring, reducing installation time and costs. Crucially, it minimizes the risk of electrical sparks — a vital consideration in environments with flammable gases or dust.

The ability to remotely monitor and control lighting systems is a primary benefit of Bluetooth networked lighting. In hazardous areas, workers can adjust lighting levels, test emergency lighting or diagnose issues without entering dangerous zones. This enhances safety and improves operational efficiency through rapid adjustments and maintenance.

Bluetooth networked lighting systems can integrate with other safety and monitoring systems. For example, in the event of a gas leak or fire, the lighting system can respond by increasing illumination to guide evacuation routes or flashing lights to signal an emergency. This integration ensures



a cohesive safety approach where lighting actively supports emergency protocols.

Energy efficiency is another advantage. Bluetooth lighting systems operate only when necessary, reducing energy consumption and heat generation — critical in hazardous areas where temperature control is vital.

While implementing Bluetooth networked lighting in hazardous areas must address challenges like robust cybersecurity and device compatibility, the potential benefits are substantial.

By enhancing safety, reducing costs, and improving operational efficiency, wireless Bluetooth networked lighting control lights the way toward safer, more efficient industrial environments.

For more information, contact STL International Ltd (SMARTXLED@stl-int.co.uk)



Intelligent ventilation systems

Industrial ventilation systems play a critical role in maintaining a safe and comfortable working environment, protecting workers from exposure to harmful substances, and preventing the buildup of contaminants.

Founded by Mark Ashby (Son) and Bob Ashby (Father) in June 2017, Clean Air Environmental is extremely committed to quality and as such, imports equipment from all over Europe and the UK, to ensure successful solutions are achieved every time.

Clean Air Environmental specialises in the engineering of industrial ventilation systems and provides a comprehensive service consisting of consultancy, design, supply, installation, and commissioning of industrial ventilation systems and services. The systems are engineered to integrate seamlessly into a facility and is predominantly designed for use in industrial manufacturing (automotive, aerospace, food manufacturing etc.), universities, colleges and schools. Offering intelligent designs and creating effective results, Clean Air Environmental



systems enhance air quality, providing healthier clean air for students, workers and operatives.

“Our services are solutions led rather than product led, so we can design the best ventilation systems that will meet our client’s exact needs,” mentioned Mark.

Clean Air Environmental places meticulous attention to detail in the design and site installations, ensuring that the company only use the best products, equipment and installation engineers.

For more information, please see below.
T 07715 432051
mashby@cleanairenvironmental.co.uk
www.cleanairenvironmental.co.uk

SAFE answers to HAZARDOUS questions

Microwave sensors for zone 1/21

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Ex

SCAN THE QR CODE TO VIEW THE PRODUCT RANGE



Innovative Technologies

Where innovation comes to light

CML Innovative Technologies brings an industry-leading approach to the production of miniature lighting for signalisation.

The last decade has seen a phenomenal shift in lighting technology as LEDs now dominate the market across all major applications and industries. LED light output degrades gradually over time. In many applications therefore, it is essential to understand what happens to the light output of a product over time.

CML Innovative Technologies (CML) is the leading manufacturer of LED signal lamps for all industrial applications and has been working with light since 1931. As a market leader in its field, CML 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 and continued to grow, establishing its share of the market with two factories in Guangzhou, China, and Sibiu, Romania. While CML remains located in Bury St Edmunds, the group was acquired by Spain's Grupo Antolin, which employs 28,000 people globally. Our customer base is diverse and ranges across the following industries: aviation, railway, automotive, bus, medical, offshore, gaming and industry.

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 for many transportation sectors. 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.

Moreover, our manufacturing facilities are primed to meet growing global demand across our customer markets, with the capacity for bespoke solutions." explained Roger Neal, Commercial Manager.

From lamps for signalisation, panel mount indicators, LEDs, LED displays, medical lamps, and aviation lamps, CML provides an extensive range of products, alongside ongoing customised projects.

"Some competitors fall short as they only provide a face value market product however, CML 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 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.

The Aviation 387 LED Replacement for example, is proof of CLM commitment to sustainable aviation lighting innovation. This plug n'play product can be supplied with 8130-3 Tag of air worthiness approval, has 50,000 hours of extended operationality, carries dimming capability, is suitable for KorryTM cockpit switches & annunciators, PSUs, attendant call lamps and signage, flight simulators, making it compatible with both day and night time operating voltages.

"The 387 LED has been tested for resistance to shock and vibration in accordance with RTCA DO-160 and has FAA PMA approval to use on a wide range of aircraft."

Partnering with CML Innovative Technologies means choosing a company that combines technical expertise, innovative solutions, and a strong commitment to quality and customer satisfaction.

CML 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.

Contact
T 01284 714700
uksales@cml-it.com
www.cml-it.com/en



High Quality Panel Mount Indicators

CML IT continues to be the number one supplier of panel mount indicators, LED lamp replacements and LED tower lamp solutions, PMI highlights include:

- Plastic and metal bezels with a wide range of options in stock.
- Development of custom solutions
- UK Manufacturing facility
- IPN40 and IP67 ratings



Fast supply chain & global distribution

Contact our Customer Services department to discuss your requirements today:
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 Email: uksales@cml-it.com





How good is your driving



Driving for Better Business

There are almost 40,000 injuries on Britain's roads each year that involve someone who was driving for work.

Work-related road risk is the risk that an employee may be involved in a collision while driving for work, creating a risk to drivers and other road users. At its core, it's about driver safety, but it can also put managers, directors and the organization itself at risk in the event of a serious crash, if they're found to have not met their duty of care obligations.

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

Your organisation needs to do this for three reasons:

- 1) It's the right thing to do. We all want our staff and other road users to get home to their families safe and well at the end of each day.
- 2) It makes good business sense.

Poorly managed drivers will increase admin time, insurance costs, maintenance costs and fuel use. Good management brings improvements in all these areas and many more besides.

- 3) The law says you must do it. All companies must have policies and procedures to minimise risk – and that includes the recognised risks around driving. In the event of a serious incident, you could be asked to prove what you do to promote driver safety.

To communicate your commitment, and the required standards to drivers, you need a



Your policy must cover things like mobile phone use whilst driving and specifically explain that handheld phone use is illegal

comprehensive, legally compliant and up-to-date driving for work policy.

What should be in the policy?

Your policy needs to include specific information in a concise and easy-to-understand format.

Here's a summary of what needs to be included.

A **Policy Statement** which explains to drivers why the policy exists and why it is important they follow it at all times. This should also include an authentic statement from a senior leader in the organisation explaining how important driver safety is and that absolutely everyone is included, from delivery drivers, right up to directors.

A Driver Management section

Before we even consider letting an employee drive for work, we need to check that they are eligible to do so, which means carrying out driver checks. We need to ensure that they have a valid driving licence and that the personal details they provided match those on file at DVLA. We need to know whether have any penalty points and whether they're entitled to drive the class of vehicle we want them to.

Do they have an eyesight or medical condition that could affect their driving?

Do they have a history of collisions? And have they received appropriate training,



ng for work policy?



Senior leaders need to demonstrate commitment to driver safety

for example, if they're going to be driving a commercial vehicle, or towing?

Your driving for work policy needs to explain how these checks are going to be carried out, how often, and what happens when someone falls outside of acceptable parameters.

A Vehicle Management section

We need to ensure the vehicles are safe. All vehicles should be regularly checked, every day if they're commercial vehicles such as vans or trucks, and a system put in place for fixing defects. Training should also be given on how to carry out these checks.

Safe vehicle loading is paramount. Many vans stopped at the roadside are found to be overweight. Most can only carry around 1 ton in payload which can leave a lot of space, and the temptation is to keep going til it looks full. Multidrop vans may need the loads adjusting throughout the shift to ensure the changing centre of gravity doesn't lead to a vehicle rollover. The dashboard shouldn't be covered in loose items, a common sight when watching vans on the road.

Car drivers also need to ensure that the passenger cabin doesn't contain lots of loose items, with brief cases or work equipment stowed securely in the boot.

All of this needs to be spelled out in your policy

A Journey Management section

Before your drivers head out on the road, are they fit to drive?

Drug driving is a growing problem, and is more common than you might think among those who drive for work. Driver tiredness or fatigue can also severely impact a driver's concentration so you need to be managing all these areas through your policy.

We need to ensure that drivers aren't being given so much to do that they can't complete their workload without speeding or taking other risks due to unrealistic work schedules.

We might tell our drivers to follow the highway

code but can you be certain, for instance, that your van drivers know that the speed limits for vans on many roads are lower than they are for cars?

Mobile phone use is a well-known issue that many employers struggle with offences currently on the rise. Many companies allow handsfree calls while driving – it might be legal, but it isn't any safer than using a handheld phone. Your policy must clearly spell out your position on mobile phone use when driving, with many employers choosing to ban the practice outright.

A Grey Fleet Drivers section

For those employees who use their own car for business journeys. Aside from the ownership of the vehicle, employers have the same legal responsibilities for managing safety including driver checks and vehicle safety. All your grey fleet drivers should get a copy of your driving for work policy.

Improving driver engagement

Your Driving for Work policy will only be effective if your drivers buy in to it so it needs to be realistic. It also needs to be consistently applied across all levels of the business. Pulling van drivers up for using a mobile phone will not go down well if managers and directors aren't. You also need to ensure that you don't tell drivers 'no phones' and then allow the driver's manager to keep calling them.

A good starting point is to bring your drivers in at an early stage. Invite your drivers to tell you what increases risk to their own journeys and how that might be avoided. You'll get much greater buy-in if they've been part of the policy development process.

Keeping it up to date

To be legally compliant, your policy needs to be kept up to date and reviewed

regularly. In the last two years there have been significant changes to the legislation on using mobiles phones as well the Highway Code which should have been reflected in your policy.

The policy must be owned by a director or similar senior manager. That person has overall responsibility for creating, communicating and reviewing the policy, as well as monitoring compliance, and this responsibility should be written into their job description.

Demonstrating leadership commitment to driver safety



Insurance Claims

DOWN 23%



Insurance Premium

DOWN 30%

Miele GB has circa 420 staff, including a car fleet which is used by sales teams, and a van fleet used by those who service and repair its products. Their driver risk management programmes have significantly reduced both collisions and their fleet insurance premium.



"At Miele, the safety and welfare of our drivers is paramount and our partnership with National Highways and their Driving for Better Business team has enabled us to gain access to many useful resources. We know our drivers will find the resources helpful, and they will either act as a refresher or include new information on specific topics. The partnership is a great step forward and forms part of our commitment to driver safety each day our drivers are out on the roads."

John Pickering MD, Miele GB

Create or review your policy

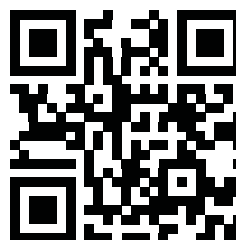
The Driving for Better Business team has just finished developing a brand new online *Driving for Work Policy Builder* tool which gives you access to pre-written example policy templates and examples that ensure you meet the required legal and compliance standards.

Our Driving for Work Policy Builder is a new online tool which will help you ensure you have a 'good practice' Driving for Work policy.

Once you've created your profile, you'll be able to:

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

If you would like to know more, scan the QR code or please visit: www.drivingforbetterbusiness.com





Robust steel housing for rough ambient conditioners

Schmersal to exhibit the new ZQ901 pull-wire emergency stop switch for the first time at the SOLIDS 2024 trade fair

The Schmersal Group is expanding its range of safety switches for heavy industry and will be presenting the new ZQ901 pull-wire emergency stop switch for the first time at SOLIDS 2024. (Stand 5 in Hall5-L06).

Pull-wire emergency stop switches reliably secure conveyor systems and machines which lack a protective device or safety cover over a large area. The ZQ901 pull-wire emergency stop switch features a cable length of up to 75 metres. The EMERGENCY-STOP switching command can be initiated at any point along the length of the cable.



What's special about this new pull-wire switch is that the housing is made of robust stainless steel.

It has the same design as the basic model (ZQ900) and the mounting points are the same, allowing the user to easily switch to the new switch type (ZQ901) for harsh environments.

The ZQ901 is suitable for ambient temperatures of -25 to +70 °C and complies with protection types IP65, IP67 and IP69 in accordance with EN 60529. The ZQ901 triggers in the event of rope pull or rope breakage, latches and can be reset manually to the operating state. In conjunction with a suitable safety evaluation unit, the pull-wire emergency stop switch can be used up to PL e in accordance with EN ISO 13849-1

ZQ901 pull-wire emergency stop switch also suitable for hygiene-sensitive areas

The pull-wire emergency stop switch ZQ901 is suitable for transport and conveyor systems as well as production facilities — but also for hygiene-sensitive areas and the chemical industry. As machines and



systems in hygiene-sensitive areas must comply with strict hygiene regulations, they're often subjected to chemical cleaning processes. This being the case, the systems are exposed to aggressive media, corrosive cleaning agents and extremely hot high-pressure water jets several times a day. The robust stainless steel housing which characterises the ZQ901 and provides optimal mechanical and chemical protection in rough environments is a major advantage here. Thanks to cable lengths of up to 75 metres, the ZQ901 can be used with transport and conveyor systems, as well as other large-sized systems.

Visit us at www.schmersal.com/en/home

Schmersal is once again awarded as "Best Managed Company"

"Palement convinces with the powerful mix of productivity, innovative spirit and vale oriented leadership."

After the winner of the "Best Managed Companies Award 2023" last year, the Schmersal Group has been awarded the "Best Managed Companies Award 2023" for the second time. The award is presented by the consulting and examination company Deloitte Private, the Frankfurter Allgemeine Zeitung and the BDI (Federal Association of German Industry). The award is awarded to excellently managed medium-sized companies that impress in four management areas: strategy, productivity and innovation, culture and commitment, as well as finance and governance.

Managing Director Philip Schmersal: "We are very pleased that we have been awarded for the second time in a row - the entire management team. We are also participating in this competition to obtain an assessment of our processes through a professional outdoor view. If the result is such an award, this confirms this in our work - and all the more so because we really plan and develop our management processes with great care. This applies both to the everyday control of the workflow and to the development and continuous adaptation of the strategic orientation."

factors that were convincing from the jury's perspective: "The Schmersal Group is an excellent example of a best managed company, which convinces with the powerful mix of foresight, productivity, innovative spirit and strong, value-oriented leadership. In addition, the company has the remarkable ability to reconcile attractive work and economic growth. It is an example of how companies in their region can make a big difference," emphasises Dr. Christine Wolter, Partner and Lead of Deloitte Private.

The Schmersal Group pursues a clear concept: "We proceed systematically in all management decisions, include many factors and take account of external expertise, for example, with our advisory board," says Philip Schmersal. "We also reflect every decision on our company values. At the same time, however, we have always paid attention to the highest level of agility - and this is certainly typical of a medium-sized family business. This offers great advantages, especially in these very volatile times: We can quickly make informed decisions and implement them quickly."

Sustainability and long-term thinking (again typical of a third-generation family business) are important for Schmersal as well as for the jury, as Markus Seiz, Director at Deloitte Private and Head of the Best Managed Companies Program, emphasises: "Schmersal and the other award-winning companies are a strong foundation for our economy. They are 'makers', innovation leaders and rely on sustainable corporate management. These companies look far into the future and not only think from quarter to quarter. This is exactly what they have earned their award as a Best Managed Company."

Corporate governance is also one of the

Visit us at www.schmersal.com/en/home





Westley Lansdowne Safety Consultancy is our BP recommends this month

Fatal injuries are a relatively rare occurrence and yet according to RIDDOR, a staggering 135 workers were killed in work-related accidents during 2022-2023 across Great Britain. These were caused by falling from height, being struck by a moving object or moving vehicle across construction, agriculture, forestry and fishing.

The Health and Safety Executive (HSE) is the national regulator for workplace health & safety and repeatedly stresses the importance of H&S training for the following reasons:

- ▲ Developing a positive H&S culture, where best practices are integral in all workplaces
- ▲ To prevent injury or illness

This applies to all businesses, including small and medium-sized companies and ranges from cascading H&S policies, identifying workplace hazards, to appointing workplace first aiders.

Addressing H&S advice

Westley Lansdowne Safety Consultancy is a Leicestershire-based company headed by director Thomas Sproston, with a mission



to provide expert H&S advice to SME's. With targeted expertise in complex safety in applications such as defence, aerospace and transport, Tom has brought his knowledge to the forefront and provides robust support within occupational safety.

Products, processes and premises

Clients of Westley Lansdowne can receive support with any of the three P's, with Tom offering particular guidance for nuclear, rail, aerospace and instrumented safety system standards.

"We offer triangulated support across safety engineering, Expert Witness and H&S and we're looking to develop other more self-contained safety management system products for lower risk businesses in the future.

The main aim for the next year is to launch our Expert Witness service offering and diversify our general consultancy client base. We've recently moved to a new office space and are looking forward to engaging further with new and existing clients," explains Tom.

Spotlight on Westley Lansdowne

With expert, bespoke consultancy, clients can receive support from the following three areas:

- ▲ **Safety Engineering:** helps companies meet legal/industrial standards including risk assessments and compliance audits.
- ▲ **Expert Witness:** written/verbal bespoke advice in civil legal cases for internal accidents and more.
- ▲ **Health & Safety:** Written risk assessments on COSSH, fire safety and safety planning.

To find out more today about safety consultancy, contact Tom on the details below and quote WLSC BP682:
T 07476 245559
<https://www.westleylansdowne.co.uk>



Westley Lansdowne
Safety Consultancy

Helping businesses of all types and sizes find and manage their safety problems



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We provide expert consultancy in safety management to help duty holders to meet legal requirements in the most appropriate way for their situation.



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sponsors this issue of **Best Practice** – see them on page 17



DMN-WESTINGHOUSE Rotary valves and diverter valves

Setting new standards for the dairy industry

Product quality, product safety. The guiding mantra in dairy production. That's why the world's leading dairy producers rely on the products and solutions developed by DMN-WESTINGHOUSE. Our rotary valves and diverter valves offer the highest level of precision engineering, preventing bridging and possible contamination during conveying processes. At the same time, they guarantee unparalleled cleanability, drastically increasing product safety while reducing downtime for maintenance and repairs.

Taking up the challenges

Through years of experience and valuable partnerships, DMN-WESTINGHOUSE has gained a deep understanding of the global dairy industry and its challenges. We have earned the trust of an industry where hygiene, cleanability, and safety are paramount. In our R&D department, we leverage innovative technology, setting the dairy industry standard. In our factories, we control every step in the manufacturing of heavy-duty rotary valves and diverter valves.

Always compliant

Just like you, we strive for unparalleled quality and consistency. A commitment underscored by our compliance with current certifications, including USDA, EHEDG-ED Class II and ATEX. Whether it's about infant formula, lactoferrin, (plant-based) milk powders, caseinates or probiotics, at DMN-WESTINGHOUSE, we help you maintain the highest quality standards in dairy.

Heavy-duty, finest quality

Many producers of dairy products, ranging from baby formula to lactoferrin, rely on our renowned heavy-duty rotary valves. These valves come in two types and various sizes: the drop-through type (AL/AXL/AML) and the blow-through type (BL/BXL/BXXL). They comfortably comply with the stringent hygiene standards the dairy industry needs to maintain. All product contact surfaces consist of food-grade material, polished to perfection. They are all radiused and polished to an astonishing 0,8 µm Ra (150 grit), and the rotor vanes have precisely chamfered edges preventing the build-up of conveyed dairy powders.

MZC-series: standard for safety, hygiene and cleanability

Cleaning intervals will vary depending on which dry dairy substances are processed. To reduce cleaning time and resulting downtime, we developed the MZC rotary valves based on our AL— and BL-series. The MZC-I and MZC-II are equipped with supporting rails so the rotor and end cover can be removed. The MZC-II opens on two sides for unprecedented easy access and superior cleanability.

These valves facilitate premium

process handling, raising the bar in cleanability, hygiene, and safety. The rotor body clearances are set automatically when the rotary valve is closed after cleaning.

Options for ultimate safety and reliability

Adding innovative solutions can take your dairy production to the next level.

We offer:

- ▲ Rotor Interference Detection (RID 3.0) is our third generation, detecting unwanted contact between the rotor and body or end covers. This prevents major damage and provides insight into product contamination. RID 3.0 offers 50 times more accurate resistance measurement than its predecessors.
- ▲ Shaft seal flow control boosts the reliability of our AL and BL heavy-duty rotary valve series even more. Precise flow control prevents the build-up of powder residue on the shaft seals, minimising the risks of seal failure, contamination, leakage, damage and downtime.
- ▲ Rotary valves equipped with the Sanitary Air Seal (SAS) outboard bearing shaft seal minimise leak risks due to pressure changes inside the valve, thus maintaining the right airflow.

Cleaning-in-place (CIP)

For maintaining hygiene and preventing contamination, cleaning-in-place (CIP) is indispensable. CIP is about cleaning the interior of pipelines, valves, tanks and other equipment without the need for disassembly. In the dairy industries it's a necessary, often automated method to maintain the highest levels of hygiene and prevent contamination.

Your perfect Niro replacement

Handling dry dairy solids is about

maintaining the strictest standards and requirements 24/7. Are you currently operating Niro rotary valves needing replacement any time soon? Our NR347 rotary valves (NR = Niro replacement) match the outer dimensions of the Niro valves operating within your system, which means they are usually a perfect fit.

The NR347 is based on our heavy-duty AL250 model and is made of stainless steel. Meeting all hygiene and safety standards, the NR347 will prove its value day in and day out.

Our diverter valves: boosting efficiency and hygiene

Diverging and converging powders or granulates is a daily routine in dairy production. Safety, efficiency and maximum hygiene are key. That's why our 2-TDV, 3-TDV, M-TDV, and GPD diverter valves are very much in demand.

- ▲ Our 2-TDV and 3-TDV diverter valves are designed for quick disassembly and streamlined distribution. The 2-TDV effortlessly handles two destinations, while the 3-TDV targets three.
- ▲ The M-TDV efficiently handles the pneumatic transport of powders or pellets, diverging and converging flows to multiple destinations. Available in different sizes, offering up to 14 ports.
- ▲ Our diverter valves are the perfect choice for systems needing regular, quick cleaning with minimal downtime.

Would you like to know more about DMN-WESTINGHOUSE rotary valves or diverter valves and discover why we are the dairy industry's choice worldwide?

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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

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.

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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.

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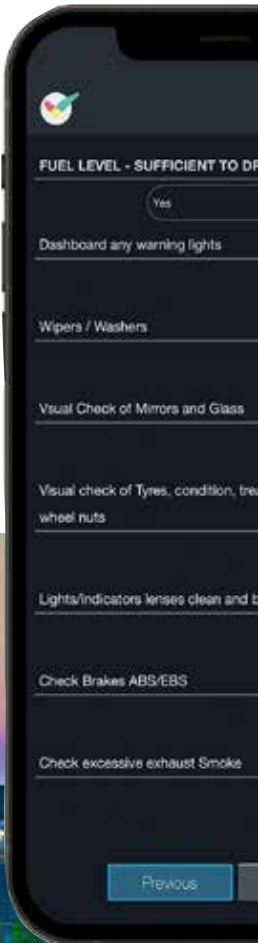
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How CheckedSafe's bespoke software helps Network Rail stay safe



Lancashire-based software company CheckedSafe has won a significant partnership with Network Rail. Network Rail has integrated the CheckedSafe app across its fleet, meaning more than 44,000 employees now use it across over 10,000 vehicles.

This landmark partnership illustrates the increasing demand for fleet operators to comply with stringent safety regulations and compliance measures.

But where compliance once entailed a cumbersome, error-prone process heavily reliant on paperwork, CheckedSafe has transformed it into a digitised, streamlined and efficient operation.

With this partnership, CheckedSafe is not just helping Network Rail adjust to the changing demands of the modern

world - they aim to help them lead the way in fleet safety and sustainability.

The demand for a monumental partnership

Network Rail, which owns the UK's vast railway infrastructure - and manages over 20,000 miles of track and 30,000 structures like bridges, tunnels and viaducts - has one of the largest fleets in the country.

The logistical nightmare of ensuring that each vehicle met stringent safety standards had previously required a lot of effort. It had relied on an outdated, complex and paper-based process. But thanks to CheckedSafe, this is no longer the case.

After almost four years of meticulous planning, bespoke software development, and negotiations,

the groundbreaking partnership between the two businesses officially commenced in January this year - and marks CheckedSafe's most expansive client relationship yet.

The importance of compliance and safety

In an era where road safety is getting tighter and tighter, the efforts of Network Rail and CheckedSafe signify a vital step forward in leading the way for fleet management.

Darran Harris from CheckedSafe said: "Effective vehicle compliance is about more than just ticking boxes. It's about actively reducing the risk of accidents and ensuring the well-being of drivers, passengers, and the general public."

"This collaboration isn't just a big project for us; it's an ever-evolving and unique



CheckedSafe[®]

partnership. Fundamentally, it's about changing driver behaviour to ensure our roads are the safest they can be."

How does CheckedSafe encourage fleet safety?

The CheckedSafe app effortlessly allows fleet operators to:

▲ Gain insight into their fleet

The CheckedSafe portal acts as a comprehensive dashboard for fleet operators, offering real-time analytics and insights into vehicle performance, usage, and other critical metrics. This feature allows for more informed decision-making, potentially identifying issues before they become significant problems.

▲ Identify vehicle defects in real-time

Real-time defect identification is a cornerstone of proactive safety. This feature enables immediate action to be taken, thus reducing the potential risk of breakdowns or accidents caused by vehicle malfunctions. With real-time notifications, both operators and drivers are instantly alerted, ensuring quick response times.

▲ Schedule vehicle maintenance with ease

Timely maintenance is essential for vehicle safety. CheckedSafe's streamlined scheduling feature allows operators to manage and plan maintenance activities effectively, minimising downtime and ensuring

that vehicles are in peak condition.

▲ Conduct remote driving licence checks

Verifying the legitimacy and validity of a driver's licence is a critical component of fleet safety. The app's remote driving licence checks add an additional layer of security, ensuring that only qualified and authorised individuals operate the vehicles.

▲ Store all fleet data in secure, tamper-proof CMS

Data integrity is crucial for compliance and audit trails. CheckedSafe offers a secure, tamper-proof Content Management System (CMS) where all fleet data is stored. This level of security protects sensitive information and ensures that the data can be reliably used for compliance reporting.

However, in addition to these classic CheckedSafe features - the Network Rail partnership has also resulted in the creation of numerous custom features and bespoke software development.

These include:

▲ NFC Keyring System

An NFC keyring system has been designed to offer a secure and efficient user identification mechanism for Network Rail's extensive workforce. This allows for seamless access to individual CheckedSafe app profiles across various devices without the need for cumbersome email and password login methods.

▲ Greater fleet segmentation

Meanwhile, CheckedSafe have also created bespoke API software that provides Network Rail with greater

segmentation and insight into their nationwide network of vehicles - as well as numerous other bespoke features.

Sustainability

Beyond compliance and safety, this relationship also sets a new benchmark in corporate sustainability. By transitioning from a paper-based compliance system, Network Rail have significantly cut down their carbon footprint, reducing paper usage and providing a blueprint for others to follow.

A partnership that defines the future of fleet management...

By entering into this expansive, ever-evolving relationship with CheckedSafe, Network Rail isn't just making a commitment to superior fleet safety and management for its own vast network. It's making a statement about what the future of fleet operation should and could be.

In essence, Network Rail and CheckedSafe are doing more than setting a high standard; they are redefining it. They are showing us not just how to adapt to the future but how to shape it. And that is an endeavour worthy of admiration and, most certainly, worth imitating.

One thing is for sure - It's not just about 'ticking boxes' anymore; it's about setting a standard. A standard that has not just raised the bar but has also envisioned a new landscape for what is possible in fleet management.

Visit us at www.checkedsafe.com





Leading Edge: Best Practices in Sustainability and Innovation at Bryant Plastics

In this issue of Best Practice, we have chosen to recommend Bryant Plastics for its cost-effective energy efficient processes.

Bryant Plastics Ltd exemplifies best practices in the plastics industry through its unwavering commitment to sustainability, innovation, and customer satisfaction. For businesses seeking a reliable and forward-thinking partner in plastic manufacturing, Bryant Plastics provide a wide variety of plastic moving and handling solutions.

It's in-house design and production teams provide an extensive range of standard and custom plastic containers including plastic Roll Cages, Linen & Laundry Cages, Trucks & Trolleys, Bins, Tanks, Tubs and Cans plus its acclaimed spring-loaded platform Self-Levelling Trolleys.

While plastic often has a bad reputation, not all plastics deserve this stigma. Bryant Plastics'



commitment to producing high-quality, sustainable products not only addresses today's environmental demands but also sets the stage for a greener and more innovative future.

"The plastic we use is virgin M.D.P.E which can be recycled and used



for probably the next 100 years or more. There is a great book by Dr Alicia Chrysostomou called Plastics: Just a load of rubbish? That I think everyone should read especially if you are looking at educating yourself in the sustainability of plastic and the environment," stated Jackie Smith, Quality and Improvement Manager.

Ensuring environmental issues remain at the forefront of every innovation, one of the standout initiatives of Bryant Plastics is its comprehensive recycling program, where all of its surplus and scrap plastic is sent to specialist plastic recyclers so that it can be put back into use in other manufacturing industries. This procedure not only preserves the environment, but also conserves the fossil fuels such as natural gas or oil used to manufacture it.

For over 40 years, Bryant Plastics has been at the forefront of manufacturing high-quality materials handling equipment in the heart of Yorkshire. Renowned for the durability and excellence of its products, Bryant Plastics offers cost-effective and competitive solutions across various industries, including warehouse, distribution, recycling, textile, manufacturing, and laundry & cleaning.

Beyond its operational excellence, Bryant Plastics is deeply committed to ethical business

practices and transparency. Central to the company's values is a strong emphasis on environmental sustainability. Over the past 12 months, Bryant Plastics has significantly upgraded its machinery to enhance energy efficiency, reflecting its dedication to minimising environmental impact and fostering a greener future. "We are very pleased with the outcome and are excited for our next project: Heat Capture. This will make our processes even more energy efficient!" added Jackie.

Naturally, operating in the plastics industry presents an array of challenges related to environmental concerns, regulatory pressures, market dynamics, and technological advancements. To conclude, I asked Jackie about the challenges the company anticipates in the future and its strategies for addressing them.

She answered, "I think the instability that comes with war and the rising cost of energy is of concern to everyone. However, we are in the fortunate position that we are in a long-term contract for our energy so thankfully, we have that safety net for many years."

For more information, please see below:
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as a pivotal player in promoting health, safety and environmental sustainability worldwide.

The cornerstone of Cirrus Research's operations is its extensive products range, which encompasses not only sound level meters, noise dosimeters and vibration meters, but has recently been extended to include remote monitoring solutions and gas and particulate monitoring tools.

These products are designed with the end-user in mind, incorporating advanced technology to ensure accuracy, durability, and ease of use.

Cirrus Research's commitment to quality is evident in its adherence to international standards, ensuring that its products not only meet but exceed the rigorous requirements set forth by regulatory bodies.

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