

The International Magazine For Hazardous Area Professionals

# HAZARDOUS ENGINEERING Solutions

January/February 2023 | Issue 67

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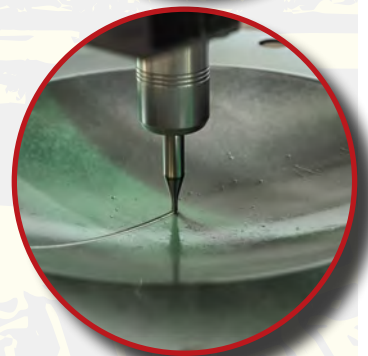
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# The Move From Mechanical Scoring To Unique CPX™ Manufacturing

The continued development of in-house technology by the German rupture disc manufacturer REMBE allows the company to manufacture rupture discs with sustainable advantages and industry-leading performance characteristics for a wide range of industries and sectors.

**C**ontour Precision Lasering (CPL™) and Contour Precision Profiling (CPP™) enables high quality, accurate, burst control even in the

harshest of chemical environments. With the CPL™ the predetermined breaking points are sublimated using a laser with high-tech equipment and not, as is the case with other manufacturing methods, mechanically scored. This high-tech production method includes a digitisation of the rupture disc contour, whereby extremely high structural stability of the rupture disc as well as the most precise burst pressure and opening geometries are achieved when bursting. Based on this innovative technology, the Sauerland-based company is creating the CPX technology series. Thanks to its improved, high-precision and at the same time robust features, CPX is excellently suited for industries with harsh conditions, aggressive process media and even for processes in which strict hygiene standards must be met.

In contrast to traditional mechanical scoring, with the CPL™ manufacturing method, the material structure of the rupture disc (including the opening lines of the rupture disc) is not thermally affected or mechanically integrally weakened. The surface facing the process remains completely smooth and without unevenness, scratches or indentations, which means that the rupture disc cannot be affected by product deposits from the often aggressive process medium.

The known IKB-, IKB-X- and SFD types are the "classics" of the CPX series. Even rupture discs already installed in plants can easily and quickly be replaced with a CPX version, which means that, in addition to maximising plant availability, the incurred operating costs can also be reduced without much effort.

In summary, rupture discs of the innovative manufacturing method CPL™ offer the following advantages:

- Durability thanks to a robust design
- Lower burst pressures with tighter tolerances
- Precise bursting behaviour and extreme reliability
- Resistance to corrosion and pin-holing
- Cost efficiency thanks to the high production speed



Fig. 1: Contour Precision Profiling (CPP™)

## About REMBE – the REMBE Alliance introduces itself

Most people associate REMBE with REMBE GmbH Safety+Control, the specialist for explosion safety and explosion venting worldwide. The company offers customers cross-industry safety concepts for plants and equipment. All products are manufactured

in Germany and meet the requirements of national and international regulations. REMBE customers include market leaders in various industries, including the food, timber, chemical and pharmaceutical industries. The company's engineering expertise is based on almost 50 years of application and project experience. As an independent, owner-managed family business, REMBE combines expertise with the highest quality standards and is involved in various specialist committees worldwide. Short coordination paths allow for quick reactions and customer-specific solutions for all applications, from standard products to high-tech special designs.

In addition to REMBE GmbH Safety+Control ([www.rembe.de](http://www.rembe.de)) with approx. 340 employees worldwide, headquartered in Brilon (Hochsauerland, Germany), and numerous subsidiaries worldwide (Italy, Finland, Brazil, USA, China, Dubai, Singapore, South Africa, Japan), four other companies operate under the REMBE umbrella brand:

-REMBE Research+Technology Center GmbH ([www.rembe-rtc.de](http://www.rembe-rtc.de))

-REMBE Advanced Services+Solutions GmbH ([www.rembe-services.de](http://www.rembe-services.de))

-REMBE Kersting GmbH ([www.rembe-kersting.de](http://www.rembe-kersting.de))

-REMBE FibreForce GmbH ([www.argusline.de](http://www.argusline.de))

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# Hart Sees 2023 As A Year Of Opportunity

**H**art Door Systems, the original British manufacturer of the high-speed door concept, is confident that there are considerable prospects for another successful year for the Speedor brand.

"Our management team led by Nick Hart as managing director and David Mason as sales director has just delivered a very good year when there has been many uncertainties in the UK economy and wider afield.

"In that challenging business environment we have had many successes at home and abroad not just through the Speedor range of high-speed doors but through our range of high quality shutters. Both these leading brands have had additional variants introduced such as Speedor ECO and our Typhoon shutters," says Doug Hart, chairman, Hart Door Systems.

"The breadth of offer created by the choice of solutions for industry and commerce has cemented our presence in the UK market and globally. The fundamentals delivered by Hart are quality throughout manufacture to installation as well as service back-up to comply with changing national and international safety standards.

"We are also cognisant of Climate Change issues and the need to keep both Hart's and our clients' carbon footprints to a minimum by using the latest manufacturing technology

to streamline the manufacturing process. Where possible we would use recyclable materials."

Looking more closely at Speedor ECO, this high-speed door complements Hart's very successful Speedor Storm, Speedor Mini and sub brands such as Speedor Conveyor and Speedor Cleanroom, further strengthening Hart's overall high-speed door offer.

Speedor ECO is a new mid-range variant suitable for external use up to Class 3 and available up to 5m x 5m size whereas the Speedor Mini is for internal use only to a maximum 4m x 4m size. The focus with these two Speedor options is on lower price and high-speed doors that can be tailored to meet clients' budgets.

Mr Hart says: "With the new Speedor ECO being a mid-priced high-speed door variant with state of the art direct drives and controls which are BSEN safety compliant, the ECO offers single or variable speed motor, heavy fabric and hand chain operation if necessary.

This adds to ECO's many other features such as safe operation, reliability and ruggedness. "We have always had quality as our prime driver and our success with new variants, not just in high-speed doors but shutters such as our new Typhoon range, the fundamentals are quality throughout manufacture to installation and service to comply with changing national and international safety standards," says Mr Hart.

"Without doubt there is demand for a mid-

priced high-speed door variant such as ECO and given our considerable experience, we are the ones to deliver it," he adds. "ECO will appeal to companies requiring a high-speed door solution but within a tight budget. It is for frequent use, high traffic situations where low maintenance is a priority.

"In all cases across our range of brands, we comply with the new code of practice announced by the DHF Door Hardware Federation and we are ever mindful of post installation maintenance costs. So while Mini and ECO cater for less demanding environments, Speedor Storm's increasing success is based on its improved, rugged, design predominately for external use up to 8m x 6m/6m x 8m) often in robust operating conditions with high wind loads.

"We have always had quality as our prime driver and our success with new variants, not just in high-speed doors but shutters such as our new Typhoon range, the fundamentals are quality throughout manufacture to installation and service to comply with changing national and international safety standards."

Hart Door Systems, now in its 75th year, is a global business supplying a range of door and shutter systems to sectors such as automotive, agriculture, communications, consumer foods, energy, environment, exports, food, logistics, manufacturing, power, sport, transport and utilities.

Contact [www.hartdoors.com](http://www.hartdoors.com) t: 0191 214 0404

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# Make Yourself Seen

Being seen instantly in dim or dark light conditions is a life-saver – so stay visible to stay safe.

In Snickers Workwear's ISO-compliant High-Vis clothing, fluorescent colours make you easier to see at dawn, dusk and during the day, while reflective stripes make it easier to see you in dim and dark conditions.

With a choice of garments in fluorescent yellow or orange, the latest additions to the Snickers Workwear High-Vis collection are partly made from bio-based Sorona® fabrics in which 37% of the fibres use renewable plant-based materials. In addition to offering a sustainable solution, Sorona® fabrics also provide superb colourfastness, long-lasting elasticity, and optimal comfort.

Snickers Workwear's new winter High-vis collection includes Trousers, Tops and Jackets in classes 1, 2 and 3. They're the stand-out choice for tradesmen and women in hazardous working environments with a diverse choice of functionality, comfort and hard-working durability for longer-lasting sustainability and wellbeing.

**For more information on the Snickers Workwear Work High-Vis range, call the Helpline on 01484 854788; check out [www.snickersworkwear.co.uk](http://www.snickersworkwear.co.uk) or email [sales@hultaforsgroup.co.uk](mailto:sales@hultaforsgroup.co.uk)**



# Be Certain On Safety With Certified Protective Wear From Snickers Workwear

**S**nickers Workwear's Protective Wear range is the better-informed choice for professionals who demand quality, sustainable products that match protection standards for hazardous environments and foul weather.\*

Snickers Workwear delivers a comprehensive selection of ergonomically designed Base-, Mid- and Top-layer working clothes and accessories that also include Work Gloves, Kneepads and specialist ProtecWork clothing.

They are all certified as appropriate for different risks at work to ensure the comfort, health and workforce-wellbeing all day, every day.

This extensive range also includes Hi-Vis clothing that provides protection against dangers such as Electric Arc, Heat and Flame, Chemicals and bad weather in high-risk environments.

So, whatever the hazard at work, Snickers Workwear's Protective Wear collection - complimented by Solid Gear and Toe Guard safety footwear - can provide sustainable certified PPE solutions for maximum effective protection whatever the risks on site.



# ATEX Zone Torches

**I**n a hazardous environment, portable lighting must be engineered to prevent a spark from occurring and igniting any flammable vapors or mists in the area. The ATEX and IECEx Zone systems were created to classify the different danger levels in these areas.

Portable lighting must be carefully selected based on the most hazardous environment it may encounter since the situation may quickly change due to an accident, equipment failure, or malfunction. Therefore, it is critical to identify the Zone in which you will be working and the Zone you might find yourself in during an emergency. Let's take a look at the specific characteristics of each Zone.

## Zone 0

Explosive atmosphere is always present.

## Zone 1

Explosive atmosphere is likely to occur during regular operations.

## Zone 2

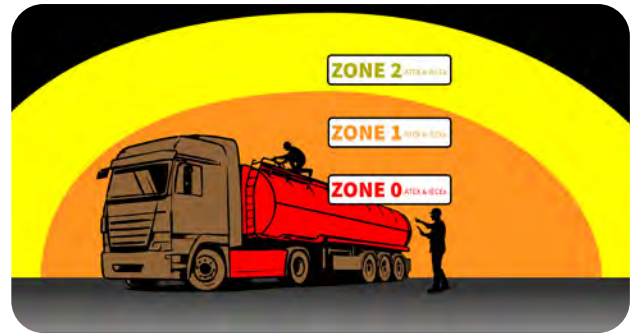
Explosive atmosphere does not occur during regular operation or for a short period only; this is usually the result of an accident or other unusual operating conditions.

The safest option is to use equipment rated for the Zone you might encounter instead of the one you will be working in. A great example of this is the Nightstick XPP-5422G torch. This ATEX safety-certified Dual-Light™ torch is engineered to not release enough electrical or thermal energy under normal or abnormal circumstances to cause

ignition, even in a Zone 0 environment. The Dual-Light feature helps users to regain the lost peripheral vision from a traditional torch, allowing them to see the immediate area below and to their sides, significantly reducing the chances of a slip or trip.

The final thought to consider when purchasing ATEX equipment is the product's manufacturer. A single-source manufacturer ensures consistent quality and safety across an entire product line. This is especially important when buying hazardous environment safety lighting. Nightstick, the original creator of the Dual-Light torch and a global manufacturer of over 50+ intrinsically safe professional, portable LED lighting products sold in 70+ countries, exceeds industry standards in performance, quality, value, and user safety. Focus on completing your job confidently, knowing your equipment was designed and rated for the highest safety levels.

Find the certification level you need at [www.nightstick.com](http://www.nightstick.com).



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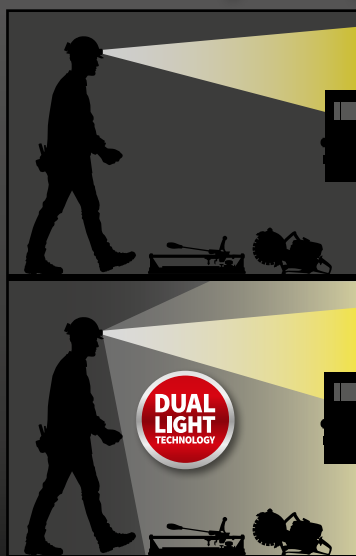


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## Diamond Celebrations For Peppers Cable Glands

The global cable gland specialist Peppers celebrates 75 years in business.

**P**eppers Cable Glands is proud to have upheld its unrivalled reputation for delivering quality products teamed with the highest possible level of customer service and flexibility throughout its 75 years of trading.

Peppers is the globally trusted cable gland specialist renowned for an end-to-end service, providing customers with a total cable gland solution and unrivalled confidence in the quality of the product. Peppers solely manufacture cable glands and enclosure accessories. It is this streamlined expertise, teamed with unparalleled technical support and service delivery that has contributed to its continued success over the last 75 years.

Sales manager, Grayham Churchouse says, "We take great pride in providing our customers with a confidence and peace of mind when they buy from us. From the design engineers who specify our products, to the fitters at point of installation, to the organisations all over the world that utilise them; our service and product quality is paramount to our success. As a focused product manufacturer, we have gathered 75 years' worth of expertise and resources into making the very best, fit for purpose cable gland and enclosure accessory range on the market."

Peppers satellite manufacturing unit and expansive global distribution network gives them a superior control over the supply chain. Their clever "component manufacturing" process allows them to remain agile which means they can provide customers with an unbeatable level of service, end to end. From quotation, to order processing, to manufacture, to a fast and reliable delivery time.

Peppers is a trusted brand that not only prides itself on its product performance and response times, but the knowledge and expertise that 75 years has created. This ultimately provides the customers with unfailing confidence that they are receiving the integrity that comes with the Peppers name, built up over the last three quarters of a century.

Peppers maintains a quality management system approved by ISO 9001:2015 as well as an extensive range of global hazardous area protection concepts and marine approvals.

**For further information please visit:**

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

# The Only South African Manufactured Product To Have Gone To The Moon Is Pratley Putty

**G**lobal interest in space exploration is at a fever pitch as NASA preps its first lunar mission in 50 years. It also brings back memories of Pratley Putty being the only South African manufactured product to have gone to the Moon. Prior to the Apollo 11 mission, the Ranger project of the 1960s was the first US effort to launch probes directly towards the Moon. This laid the groundwork for the successful Apollo 11 mission.

During the 1960s, South African manufacturer Pratley invented the world's first epoxy putty. Initially it was intended to be used internally for insulating and affixing terminals to cast iron electrical junction boxes. However, the product was subsequently introduced into the local market as 'Pratley Plastic Putty', a name that ultimately became Pratley Putty.

An agreement to manufacture the product under licence in the United States was concluded with a US manufacturer, which introduced the product to NASA. However, the product was not yet ready for production in the United States. Subsequently when it was decided to use it on the Ranger programme, it was supplied directly from Pratley's head office in South Africa. Consequently, Pratley

Putty achieved recognition as the only South African manufactured product to ever go to the Moon.

The South African Mint celebrated the 50th anniversary of the first Moon landing in 2019 with its 'South African inventions' series, focusing on the 'proudly South African'

Pratley Putty. In October 2019, Pratley Putty was featured as part of a 'Destination Moon' exhibition at the Sci-Bono Discovery Centre in the historic Electric Workshop in the cultural precinct of Newtown, Johannesburg. "Our roots are in innovation, research and development.

It is a cornerstone of what we do at Pratley, and we continue to live and breathe by it," comments CEO Andrew Pratley. "Pratley branded products not only offer exceptional reliability, but in accordance with our policy statement, their performance must exceed all others on the world market." Pull quote

"Our roots are in innovation, research and development. It is a cornerstone of what we do at Pratley, and we continue to live and breathe by it." – Andrew Pratley, CEO, Pratley

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# Elcome Brings Starlink High-Speed, Low-Latency Internet To The Global Maritime Industries

**E**lcome International, a leading provider of maritime systems and integration solutions, is providing SpaceX's Starlink internet services to its global maritime and mobility customers.

From merchant vessels to oil rigs to luxury yachts, Starlink enables maritime customers to connect from the most remote waters across the world, just like they would in the office or at home.

For more than fifty years, Elcome has been providing its maritime customers with communications solutions based on both terrestrial and satellite technology. Starlink is one of the most significant advancements in communications for the maritime industry in decades.

Powered by the world's largest constellation of satellites in low Earth orbit, Starlink's

high-speed, low-latency broadband Internet service for all types of maritime and offshore assets is a revolution in performance and cost. With speeds up to 100 times faster and at a fraction of the cost of traditional satellite internet services, Elcome will equip its customers with cutting-edge technology-led solutions that leverage the unique capabilities of Starlink.

"We are so excited to bring the benefits of Starlink to our customers," said Jimmy Grewal,

Elcome's Executive Director. "It's not just about fast Internet, but the opportunity for us to implement real-time remote monitoring and autonomy solutions for these customers in ways that were not previously possible.

Also consider the benefit to crew members who will now be able to better stay in touch with family and friends while out at sea." The company will also provide installation, integration, and field support to customers

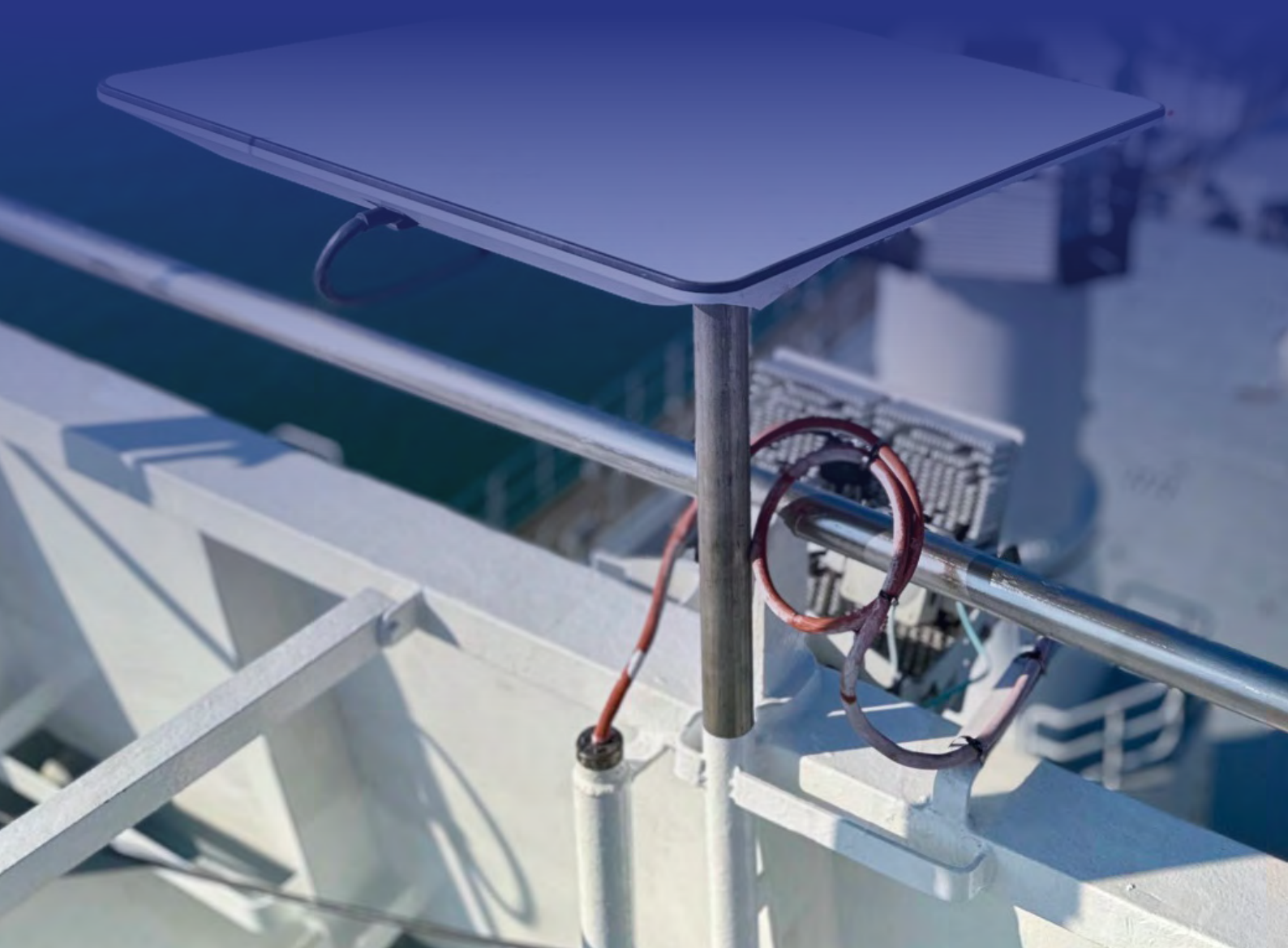
using Starlink. Elcome has already implemented multi-antenna

Starlink arrays delivering hundreds of megabits of low-latency bandwidth on two superyachts catering to more than 100 crew and guests simultaneously.

Those interested in learning more about Starlink mobility solutions can visit Elcome's website at <https://elcome.com/starlink> where they can place orders for delivery to numerous countries around the world.

Orders will be fulfilled from the company's logistics hubs in Spain, Dubai, and Singapore with a variety of installation and support options available.

The company also provides a comprehensive web portal for customers to manage their Starlink subscriptions, including month-to-month billing with no contractual commitments and the option to pause the service.



# Concerns Grow As HSE Records Biggest Growth In HAVS Cases For Five Years

The company behind HAVSPRO, the solution for the accurate, real-time measurement and monitoring of workplace vibration, is highlighting the latest Health & Safety Executive (HSE) figures, released in November 2022, which show a 375 percent rise in new Hand Arm Vibration.

**O**ver 300 new cases of HAVS were reported in 2021, in addition to 165 new cases of Carpal Tunnel Syndrome (up 412 percent) and 255 new instances of Dequyten's Contracture (a rise of 392 percent). HAVSPRO points out that these conditions are all easily preventable with appropriate measures in places to protect the workforce.

However, in addition to this disturbingly high rise in cases, the HSE report also shines a light on the extensive array of industries (some previously unconsidered) in which workers are exposed to such debilitating conditions.

Whilst the HSE statistics show the construction and mining industries have long been seen as key contributors to risk in this area, a number of new sectors are revealed as being areas of concern, including 'service' industries. The reported data sets include repair of motor vehicles, accommodation and food service activities, and transport and storage as part of the Service sectors that are reporting over 50 percent of new cases

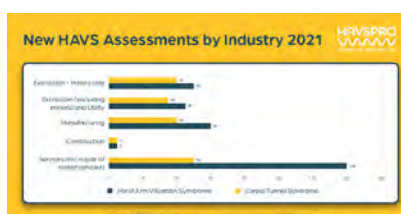


in 2021.

More than two million people are at risk from developing HAVS and approximately 300,000

people suffer from HAVS in the UK alone, with companies already feeling the impact of successful worker litigation to the tune of £2.5m in fines alone in the last 7 years - and almost £1.4m of these fines have been since 2018.

Russ Langthorne, Managing Director of SIXIS Technology, the company behind HAVSPRO, and a personal HAVS sufferer himself, is concerned at these significant increases; "These statistics are particularly concerning because the number of new cases is at a five-year high, and not just skewed as a result of the recent pandemic. It is clear that companies need to be taking this growing risk factor more seriously, given the significant impact it can have on both their workforce and their bottom line. Action must be taken now."



HSE regulations stipulate that "An employer who carries out work which is liable to expose any of their employees to risk from vibration shall make a suitable and sufficient assessment of the risk created by that work to the health and safety of those employees, and the risk assessment shall identify the measures that need to be taken to meet the requirements of these Regulations".

However, the regulations further state that "There is no legal requirement for continual monitoring and recording of vibration exposure and that to do so would probably not be a good use of your or your employees' time,

unless there are very specific circumstances." Russ adds: "Clearly, this huge rise in new cases in a number of related HAVS conditions and across a host of industries, indicates that there is now a very real requirement for businesses to prioritise vibration exposure measuring and monitoring, both to protect their workers and to avoid costly litigation and fines.

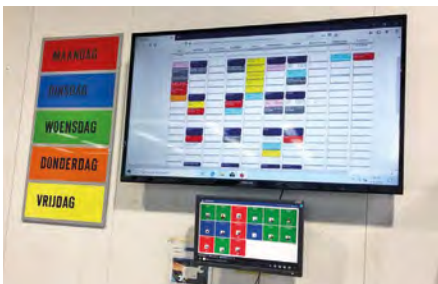
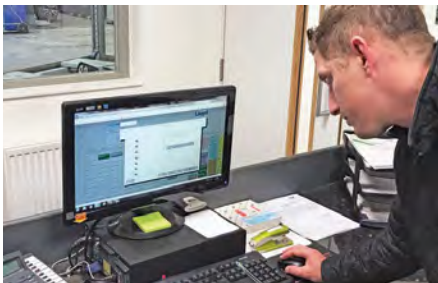
"The game changing and simple to adopt HAVSPRO system provides continuous measuring and monitoring of vibration exposure, allowing for a proactive, ALARP-focused approach to vibration risk management. There is no longer any excuse for companies not to engage in doing everything possible to manage the risk from vibration exposure, to as low as reasonably practicable, and to #MakeHAVSHistory."

For more information, visit <https://bit.ly/3lBalm6>





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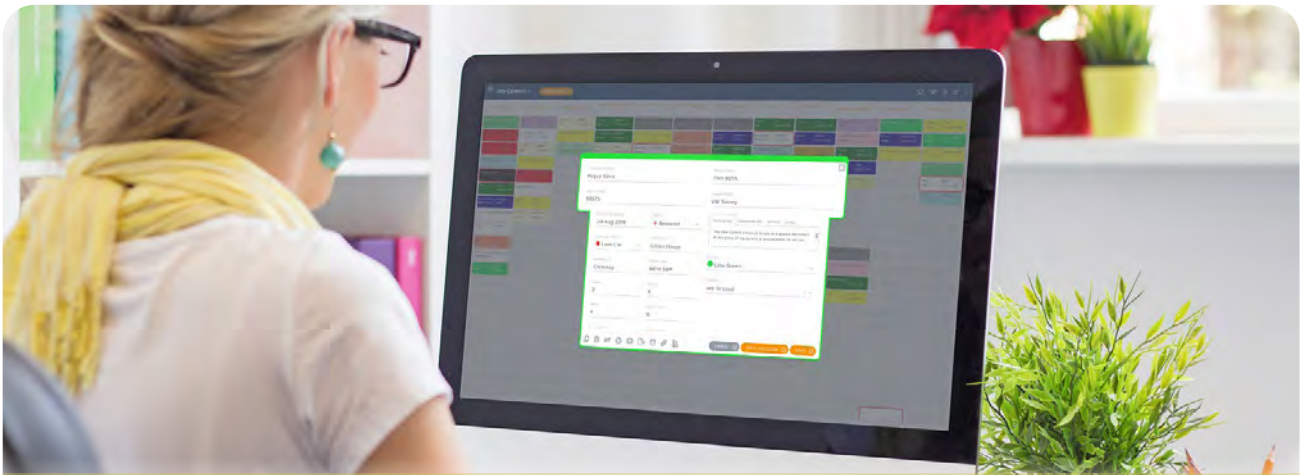
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## T Cards Online Releases Milestone Update at Southern Manufacturing Show

**T**Cards has reached its latest 2022 milestone update with the latest release. Now it's even easier to plan and improve task management; helping you to be more agile and quicker to respond to changing requirements.

T Cards have been a proven management tool for allocating, tracking, and improving efficiency for many years. Every workplace has its own specific requirements for a planning system. This adaptable, simple to customise system is a simple tool to improve

business.

T Cards Online was first released over 10 years ago. Since then, updates have continued to reflect the requirements of users and new features have been regularly added. The milestone release this winter, however, is a big step forward and will be demonstrated at the Southern Manufacturing Show Stand M135

Mark Rigby, Managing Director at MTR

Logistics commented "I really like the system – It works brilliantly for remote working. This is the Most Simple Visual Management tool on the internet. It has made a big improvement on the way we manage"

All the new admin pages have been bought up to spec with a new smooth user experience, simple to follow setup and a clear editable framework. Creating and managing the visual display of your tasks has never been simpler.

## Thorite Will Showcase New Team And Technology At Major Engineering Event Company To Attend Southern Manufacturing & Electronics Show

**C**ompressed air and fluid power specialist Thorite will launch its new dedicated Electronic Automation (EA) Team at the Southern Manufacturing & Electronics show in February.

The Bradford based company will also be unveiling new products and technology at the event, to be held at the Farnborough International Exhibition and Conference Centre in Hampshire from February 7th to 9th.

Visitors to the show will be able to meet EA Technical Development Manager Mik Rhodes, who will be on hand to explain how Thorite can help original equipment manufacturers (OEMs) unlock the potential of electronic automation to develop equipment which delivers faster changeovers and improved productivity.

The team will employ demo units to explain the best uses for pneumatic and electronic automation, as well as electric pick and place grippers demonstrating the range of motion available with the latest technology.

Tom Simpson, Marketing Co-Ordinator for the EA Team, said: "Electronic automation is increasingly being recognised by OEMs as a more efficient alternative to pneumatic power on some machinery.

"We have expanded our expertise over the years in line with this shift and we're excited to be sharing it at the Southern Manufacturing & Electronics show, which is a highlight of the engineering events calendar."

Thorite's Systems Team will be available to discuss everything from panels and valve islands to compressor and OEM sub-assemblies.

Thorite will also use the event to introduce the newly launched Ultima range of oil-free compressors from Gardner Denver, which are 37% smaller and 13% more efficient than other compressors and have no need for ducting

thanks to their internal heat exchangers. Thorite's in-house pump expert will provide hands-on demonstrations using a cut-away unit of Graco's new game-changing electrical-operated double diaphragm (EODD) pump, QUANTM, which requires zero compressed air and delivers up to 80% reduction in energy consumption, while maintaining proven air-operated double-diaphragm (AODD) pump benefits.

The Southern Manufacturing and Electronics show boasts a diverse range of suppliers which attracts manufacturers ranging from major players to SMEs, from across the UK and continental Europe.



# SOUTHERN 23 Manufacturing & Electronics

FARNBOROUGH | Hants | GU14 6TQ

7<sup>th</sup> | 8<sup>th</sup> | 9<sup>th</sup> FEBRUARY

9.30am - 4.30pm  
(3.30pm close Thurs)

## Where Industry and Innovation converge

Over 600 national and international suppliers come together to exhibit at Farnborough International Exhibition and Conference Centre this February for Southern Manufacturing and Electronics (inc AutoAero) 2023. Meet the power behind UK manufacturing industry and see live demonstrations and new product launches of machine tools & tooling, electronics, factory & process automation, packaging & handling, labelling & marking, 3D print technology, test & measurement, materials, composites & adhesives, rapid prototyping, ICT, drives & controls and laboratory equipment.

Free industry seminar programme online @  
[www.industrysouth.co.uk](http://www.industrysouth.co.uk)

The exhibition is **free** to attend, **free** to park and easy to get to. Doors open at 9.30am on Tuesday 7th February.

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SOUTHERN MANUFACTURING & ELECTRONICS  
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Tel 01784 880890 • email [philv@etes.co.uk](mailto:philv@etes.co.uk)



# Southern Manufacturing & Electronics

**S**outhern Manufacturing & Electronics is one of the most important and popular engineering shows in the UK calendar. Held at the £35million Farnborough International Exhibition and Conference Centre, a 20,000 square metre complex offering world-class facilities, easy access and free onsite parking, the event is no longer just regional but one that attracts exhibitors and visitors from throughout Britain, Ireland, continental Europe, the Americas and Asia.

Next year's show, which opens from 7th to 9th February, marks its 25th anniversary. A large proportion of participants have exhibited at the show since the very beginning and the percentage of returnees is extremely high. The organisers have recently announced that online registration is live at: <https://www.industrysouth.co.uk/register>

With its diversity of supplier companies, the show rises above any particular sector of engineering, attracting big-name manufacturers and SMEs alike. As well as giving the event its unique character, it makes visiting an effective way to address multiple sourcing requirements under one roof in a time-efficient manner. Many regular participants are already signed up for 2023, which is on course to be a sell-out again. Hundreds of firms will present every aspect of engineering, from machine tools and mechanical engineering through electromechanical, electrical and electronic equipment and components to business software, workshop essentials and a wide range of subcontract services.

Manufacturing industry is beset not only by the damage caused by Covid-19 but by more recent challenges as well, such as the impact of Brexit, supply chain disruption, soaring energy costs, skills shortages and most recently the prospect of higher taxation. Solutions to help ameliorate some of these negatives are emerging strongly from exhibitors at next year's show. Although it is split roughly 50:50 between

mechanical and electronic engineering, the diversity does not prevent the event from being a cohesive whole. There are no barriers between the areas, allowing visitors to roam unhindered between the different engineering disciplines. People frequently say this is one of the show's principal attractions, as it leads to their discovering companies and technologies that they would otherwise miss. Technology Trails guide visitors around the event, grouping together firms with expertise in similar areas.

There will be much at the exhibition to interest readers. For example, Ecotile will show its UK-made interlocking floor tiles that solve damaged industrial flooring problems in manufacturing facilities, warehouses and environments where there is heavy forklift use. 100% recyclable and fire retardant, the tiles enhance workplace safety and can be fitted easily over any hard sub-floor. Ecotiles are also available as an electrostatic discharge solution to protect electrical and electronic products and personnel.

Health, safety and sustainability guidance is offered by machining coolants, oils,

lubricants and greases supplier Oemeta UK, which is always seeking to place itself in the forefront of meeting regulatory requirements and is constantly developing new technologies in response to customer requests. In the area of training, Advanced Rework Technology is one of the longest-running IPC certification centres in Europe, offering all levels of IPC training that plays a key role in bringing safety as well as value to the electronics industry.

Leighton Buzzard-based JPT is one of the UK's premier protective case and foam specialists, manufacturing instrument and transit cases to multi-national commercial standards, with an astonishing 3,800 different case and foam designs to date. The company will be introducing at the show its new Vivax case for protecting tablets and laptops.

**Co-located with Southern Manufacturing & Electronics is AutoAero, a specialised event focusing on suppliers to the aerospace and automotive engineering sectors. Admission to the exhibition is free of charge. More information and tickets are available from [www.industrysouth.co.uk](http://www.industrysouth.co.uk)**



# Single Phase Dust Extractor Meets Safety Regs

**B**oth fixed and mobile cyclone based dust extractors and air cleaners will be exhibited by Dustcontrol UK including its most powerful single-phase dust extractor, the DC Tromb 400 (pictured). It has been designed to meet modern safety requirements and work in conjunction with tools in manufacturing processes

The powerful DC 2900 range will also be on display. This can be used for industrial vacuuming or on-tool dust extraction. Its suction casings make it particularly effective for dust-creating activities.

The range of DC AirCubes are background air cleaners for at-source extraction, circulating clean air back into an area used for dust-creating activities and providing greater extraction efficiency.

## Rounding off the equipment

The Milton Keynes company has 50 years' of experience in developing dust extraction solutions and centralised vacuum systems for clients in the manufacturing industry, including electronics, healthcare production and aviation. It has expertise in problem solving with a high technical capability of capturing dust at source, then containing

and transporting it to a convenient discharge solution.

on display will be the DC 1800

EX and DCF 60 pre-separator, along with a range of accessories

**Visit Dustcontrol UK at stand L170**







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# Peli™ Safety Lighting

**I**n 2022 Peli Products (UK) Ltd celebrated 30 years in business. During those years high quality, rugged torches have been a fundamental part of the Peli™ range in the UK. We now offer a wide choice of safety approved lighting products for professionals working in hazardous areas, all are certified to current ATEX requirements for Zone 0 or Zone 1 and are ideal for industrial and offshore use.

The range includes right angled clip on models for hands free use.

The 3765 Zone 0 is a tough rechargeable safety light, ideal for industrial and offshore use. This rugged torch has a secure clip to attach to clothing and features downcast LEDs to light the path in front. It also has high and low modes and a battery charge level indicator.

The Peli 3415 Zone 0 features a 90° articulating head to angle the light where required. An integrated clip easily attaches to clothing for hands-free light and also utilises a heavy duty magnet; allowing the torch to be attached to steel surfaces.

The Peli 2755 Zone 0 is one model in a range of robust headtorches from Peli. The torch comes with both a rubber and a cloth headstrap, and has three power modes: high, low and flashing. A hard hat attachment is also included.

Professionals have chosen the Peli brand for many years; trusting in the reliability, performance and durability of the products in the most testing conditions.

**For more details telephone 01457 869999 or go to [www.peliproducs.co.uk](http://www.peliproducs.co.uk).**



# Hi-Line Reports Sales Growth And Major Plans For 2023

**H**i-line Industries, a UK-based leader in the design, manufacture and installation of energy-efficient compressed air purification equipment, is reporting continued growth in year-on-year sales, with results for the last quarter well ahead of forecast. This positive news is a reflection of the added value provided by the company's products and services, which help UK users of compressed air to achieve genuine competitive gain.

To support its growing sales, Hi-line has completed a management reshuffle that will ensure its expanding customer base can take advantage of even higher service levels. Following on from the appointment of Steve Smith as Managing Director in May 2022, Brad Beesley is now General Manager, heading up the Sales Department. In addition, Darren Sims now sits at the helm of the Technical Department as the company's new Technical Director, while Craig Watson takes up the role of Business Administration Manager to lead Hi-line's Administration Department. All report directly to Steve Smith.

Everything about Hi-line at present centres on growth, emphasising the success story of this forward-thinking UK manufacturing business. By way of example, spring 2023 will see the start of an extension to the company's UK headquarters in Burton-upon-Trent. This significant project will provide a huge boon to the in-house manufacturing processes, while simultaneously increasing warehouse space.

In another notable investment, Hi-line's Technical Department is looking to



implement new software that will further enhance the company's CRM (Customer Relationship Management) activities. The new software suite, which will be of great benefit to Hi-line's service contract customers, will integrate with the company's cloud-based Xero accounting software.

Hi-line also takes its corporate sustainability responsibilities extremely seriously, which is why the company is currently installing a series of electric vehicle chargers at its Burton-upon-Trent facility. This activity precedes a number of electric vehicles currently on order, which will drive down carbon emissions and support Hi-line's position as an industry flagbearer for environmental issues. Many of the company's products also underpin this ethos, largely via innovative technologies that help to reduce energy consumption.

In a further environmental project, Hi-line will be self-sufficient with solar energy by 31 March 2023, delivering a huge milestone in the company's carbon-offset programme.

As a final positive note, Hi-line reports that recruitment is currently at an all-time

high, with the company set to announce more appointments in the near future, likely filling vacancies in the Logistics and Technical Departments. In addition, two local apprentices have just started their BCAS (British Compressed Air Society) Apprenticeship Scheme at Hi-line Industries, facilitating the vitally important succession of industry skills.

"We're really happy with our impressive sales performance as it means we can reinvest in our business to deliver even more growth moving forward," says Managing Director Steve Smith. "Investments in new floor space, staff members and green technologies – alongside our newly conceived management structure – will mean that Hi-line remains on a progressive and secure footing. The future is looking extremely bright for Hi-line and I look forward to seeing what we can achieve in the years ahead."

**Further information is available from: Hi-line Industries Ltd, Green Street, Burton on Trent, Staffordshire DE14 3RT**

**Telephone: 01283 533377**

**Fax: 01283 533367**

**e-mail: [enquiries@hilineindustries.com](mailto:enquiries@hilineindustries.com)**

**[www.hilineindustries.com](http://www.hilineindustries.com)**



# Croda Europe Ltd Has Become The Latest Organisation To Join EEMUA As A Corporate Member.

**C**roda is a global speciality chemical company creating ingredients and technologies that bring innovation, high performance and sustainability to an array of products used by industry and consumers around the world.

activities for members that assist with tackling issues within industry, whether that is in relation to new or ongoing industry-wide issues, conforming to regulatory standards or discussing incidents. As a membership organisation EEMUA aims to benefit its members continuously across all areas of concern, including the challenges of decarbonisation and sustainability.

All the company's UK operations fall within scope of membership, which covers manufacturing sites at Rawcliffe (East Yorkshire), Leek (Staffordshire) and Ditton (Cheshire) producing a range of chemical products.

EEMUA Corporate Membership is open to companies that own and/or operate industrial facilities or that are significant purchasers or users of engineering equipment and materials.

EEMUA provides valuable information through guidance and other

Further details on the benefits of joining EEMUA can be found at:

<https://www.eemua.org/tni/join-eemua.aspx>

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For more information please contact: [events@eemua.org](mailto:events@eemua.org) or +44 (0)20 7488 0801

# Raising The Bar In Challenging, Large-Capacity Hoist Installations

**S**upplying, installing, load testing and LOLER certifying a wide range of manual and powered hoist units, Hoist & Winch Ltd has extensive experience and expertise in all kinds of industrial lifting operations. However, certain projects require special know-how, such as the installation of large-capacity, electric-powered wire-rope hoists in challenging and restricted access applications. And yet even in these situations, Hoist & Winch has a proven methodology to ensure a high-performance, efficient, safety-certified outcome for customers.

Every hoist installation is different, and most generally present some level of

challenge to overcome, typically relating to the dimensional clearances of the hoist unit or the logistics of general access conditions.

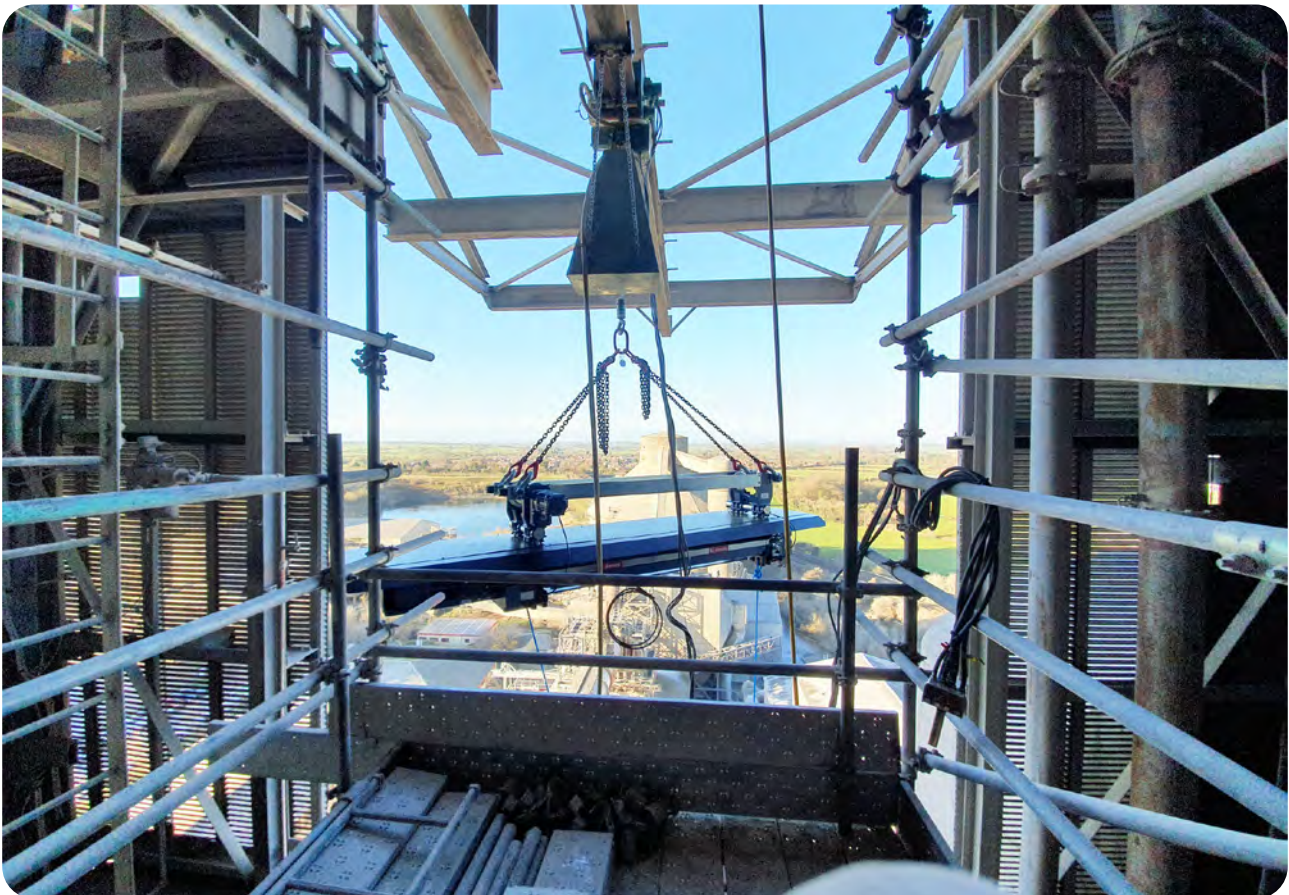
When the hoist unit's dimensional clearances are particularly critical, Hoist & Winch Ltd carries out a detailed survey prior to manufacture, ensuring that the complete installation can perform the required tasks with sufficient operating clearance.

On some occasions, a pre-installation survey is required to check site/work area access conditions. Hoist & Winch Ltd will subsequently submit its Risk Assessment and Method Statement (RAMS) for approval by the customer

prior to starting work. These documents detail the installation procedure, the equipment intended for use, and the hazards and risks associated with the various tasks. In addition, the documents will set out how it is possible to minimise or negate these risks.

A recent cement plant project involving challenging installation access conditions highlights how the capability and knowledge of Hoist & Winch Ltd proves extremely useful in delivering a successful outcome for customers.

This complex project involved replacing an obsolete, 10-tonne SWL (safe working load), electric-powered wire-rope hoist unit with 60m lifting height.



The task was required ahead of the cement production facility carrying out extensive modification work to its pre-heater tower. The pre-heater tower is 100m high and the existing hoist unit was located at the 60m level on a monorail beam that cantilevers out of the building for approximately 8m. Both the obsolete hoist unit and monorail beam had been dormant for many years, which meant that Hoist & Winch Ltd's scope of supply included the load testing and thorough examination of not just the new wire-rope hoist unit, but also the monorail beam.

Among the first tasks was to remove the existing wire-rope hoist unit, which weighed 3 tonnes. Hoist & Winch Ltd decided to cut this down in sections using gas-burning equipment as many of the hoist parts were badly seized and not easy to dismantle in the conventional way. Initially, the company removed these sections to a specially constructed scaffold work platform located below the hoist installation area. Each piece of the obsolete hoist was then lowered further to the nearest adjacent floor level 16m below using manual chain blocks for movement to the goods lift access

located at that level.

Next, Hoist & Winch Ltd had to install the new hoist (weighing 2.2 tonnes) in part dismantled form. The company eased the difficulty of this task by installing a temporary 3-tonne SWL motor trolley mounted, air-powered chain-hoist unit on the monorail beam and raising the new hoist unit the required 60 m from the outdoor ground-floor work area. Hoist & Winch Ltd took great care with the preparation of the chain-hoist unit to ensure reliability during operation as any breakdown during the critical 60m lifting operation would require special access equipment to help resolve any issues. Hoist & Winch Ltd also carried out meticulous checks on the quality, volume and pressure of the air supply.

The next task was to raise the complete new hoist unit to the 60m installation level. From there, Hoist & Winch Ltd used the 3-tonne SWL motor trolley mounted, air-powered chain-hoist unit to transport the new hoist unit into the building and over the temporary scaffold work platform.

From this position - after first opening

up the hoist unit trolley wheels wider than the monorail beam width – the company lifted the wire-rope hoist unit into position. To facilitate this task, Hoist & Winch Ltd deployed four 1-tonne SWL manual chain blocks suspended from each end of two specially fabricated lifting frames clipped into position on the top flange of the monorail beam.

The final tasks included electrical commissioning, assembling the hoist on to the monorail beam and the removal of all temporary lifting equipment. Hoist & Winch Ltd could then perform dynamic load testing of the new wire-rope hoist unit and monorail beam using a skid-mounted, certified 10-tonne test load prior to issue with a LOLER Thorough Examination report. As part of the dynamic load testing procedure, the outdoor cantilever section of the monorail beam was deflection-tested in accordance with BS2853 using a special long-range, outdoor-operation Leica laser mounted to a stable yet precisely adjustable tripod.

"Manufacturing and process plants tend to evolve over time, often compromising general access to existing hoist installations," explains Andy Allen, Director of Hoist & Winch Ltd. "In other instances, legacy hoists fall into disuse and become obsolete. We've seen this on many occasions over the years, but with our in-house design, engineering and manufacturing skills, there is nothing we cannot overcome. If you are in this situation and could benefit from the input of an expert partner, please call for a no-obligation discussion about the potential solutions."

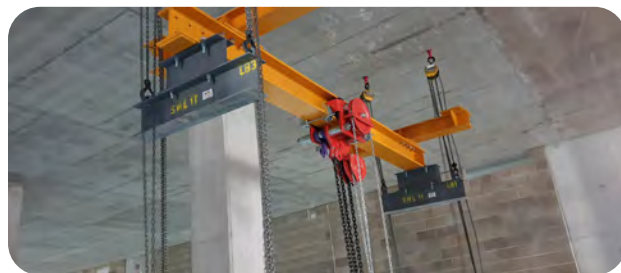
**Visit [www.hoistandwinch.co.uk](http://www.hoistandwinch.co.uk) for further information and to view recent case studies.**

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# Hoist & Winch Elevates Success Of Large Construction Project





**H**oist & Winch Ltd has recently completed a challenging project for one of the UK's biggest construction companies involved in large-scale new home development projects. Faced with a demanding and highly technical brief, Hoist & Winch rose to the task, providing a turnkey lifting system solution to ensure complete success for its client.

The requirement was to install a concrete ceiling mounted 7.5t swl (safe working load) lifting beam and manual chain hoist into the basement energy room of a large new tower block. This development is part of a large-scale prestigious regeneration project providing 5500 sustainable new homes in North London.

At the design stage, following formal tender and contract award, Hoist & Winch set about identifying the optimal solution. Due to restricted access into the basement area, the company decided to utilise a two-piece lifting beam design with an overall length of 7m. To join the two lifting beam sections, Hoist & Winch designed a central splice joint of bolted construction with a reinforced bottom beam flange.

In order to spread the lifting loads over a greater area of the concrete ceiling slab it was decided to mount the lifting beam via four intermediate cross members, each having a four-bolt/anchor fix into the concrete ceiling at both ends. Featuring a robust bolted construction design it was possible to deliver the lifting beam to site in fully dismantled form for ease of transportation and access.

M24 resin anchors with an embedment of 255 mm into the 400 mm deep reinforced concrete slab fixed the intermediate cross members directly to the ceiling for maximum security.

For approval by engineers at the main contractor, Hoist & Winch submitted design drawings and calculations for the structural design of the lifting beam and loading of the resin-type ceiling anchors.

With the design approved, Hoist & Winch could progress to manufacturing, followed by delivery to site. Using building column positions as datum points, the installation line of the lifting beam was marked out while working from scissor lifts and an aluminium scaffold tower located on the upper mezzanine floor. A surveyor's laser line initially identified the correct lifting beam position, prior to overlaying with red chalk to ensure accuracy for the duration of the installation work.

Raising the two lifting beam sections into position required the

installation of eight 1t swl hand chain blocks, with each one suspended from M16 swivel eye bolts supported from flush-mounted anchored resin inserts drilled into the concrete ceiling slab.

Following sample pull load testing, Hoist & Winch raised each lifting beam section into position using four 1t swl hand chain blocks. To raise the lifting beams to the full height and clamp them hard against the concrete ceiling slab ready for drilling, the company used two special lifting rigs per beam section.

The first lifting beam section manoeuvred into position also included the 7.5t swl hand chain block, which was rolled on to the lifting beam at low level using a 1t swl hand chain block temporarily suspended from local steelwork. Once both lifting beams were in position, Hoist & Winch joined the two lifting beam sections using the aforementioned bolted splice plate.

Next, the company undertook ceiling slab drilling operations and resin anchor installation for all 32 ceiling anchor points after very carefully cleaning each hole with a special heavy-duty internal brush and suction pump. Following the specified resin curing time, Hoist & Winch could tighten each anchor bolt to the required torque levels.

The final installation and test operation was LOLER (Lifting Operations and Lifting Equipment Regulations) inspection of the lifting beam and manual chain hoist unit. This activity included dynamic load testing of the entire runway beam length with a 7.5t skid-mounted test load followed by 125% static proof load test in accordance with BS 2853 2011.

"Working as a subcontractor for the company supplying and installing the plant and services in the basement energy room, we delivered an entire turnkey lifting system solution," states Andy Allen, Director of Hoist & Winch Ltd. "At completion we provided the client with an overall project records and documentation package, before clearing all site equipment and undertaking customer handover. This project is just one of many exemplifying the meticulous, competent and professional approach that Hoist & Winch customers can expect from our highly knowledgeable team."

Visit [www.hoistandwinch.co.uk](http://www.hoistandwinch.co.uk) for further information and to view recent case studies.

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# Safe & Efficient Drum Handling In Hazardous Areas

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dispense the contents, scissor grabs, base gripping units and waist grippers, the whole range can also be fitted to pedestrian stackers for use in confined spaces and places where fork trucks are banned. Bespoke units can be manufactured to suit customer specification.

We also have a range of Drum Cages for off-shore use and fork attachment Whiskey/Wine Barrel Base Grippers for use in the drinks industry.

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need for the truck driver to dismount from his cab, saving time and increasing safety!

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All Grab-O-Matic fork attachments are issued with Test Certificates, CE marked and manufactured entirely in the UK to ISO 9001:2015 and will be certified for use in ATEX spark proof areas.

**For more information on our extensive range of drum and materials handling equipment please contact Andy Bow on 02380 643402 or email [sales@stclare-engineering.co.uk](mailto:sales@stclare-engineering.co.uk)**



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- Pedestrian Drum Rotators
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### St Clare Engineering Ltd (Grab-O-Matic)

Unit 1, Brookwood Industrial Estate, Brookwood Avenue, Eastleigh, Hampshire SO50 9EY

Tel: 02380 643402 Fax: 02380 642189 Email: [sales@stclare-engineering.co.uk](mailto:sales@stclare-engineering.co.uk) Web: [www.stclare-engineering.co.uk](http://www.stclare-engineering.co.uk)

# Snap-on's Level 5 tool management system guards against FOD

**F**or engineers and technicians working in many industrial sectors foreign object damage (FOD) will always be a real and present danger.

Keeping track of every tool and piece of equipment, especially when several storage cabinets are in simultaneous use, can be challenging.

Snap-on Industrial's Level 5™ automated total asset management system minimises the risk of FOD by constantly tracking every tool, advising when tools have been removed or returned using voice announcements.

It also enables engineers and technicians to find every tool they need, when they need it, saving time and easing stress.

Engineered to track individual tools by user, without bar codes, scanners, RFID tags or other add-ons, the system works at the speed its users demand.

Level 5™ boxes are network ready, using either Ethernet or wireless connection. Powerful software enables users to review activity at all boxes in their location from one central computer, avoiding the need to inspect each box. Major benefits of the system include:

- No individual tool scanning required;
- No RFID tags to install or replace;
- No limitations on tool size;
- Intuitive interface, via touchscreen;
- Audible voice confirmation of tool removal and replacement;
- Automatic locking for maximum security;
- Errors announced and displayed to indicate incorrect tool position or advise when a drawer is not closed.

Level 5™ boxes are equipped with Keyless Access Control, giving users the access they need but with security built in. The control system can be configured with

magnetic cards, barcodes, PIN numbers and proximity cards.

Says Richard Packham, Director UK & Europe for Snap-on Industrial: "Snap-on's automated system takes tool management to an entirely new level, giving workshop managers and other authorised users easy access to the tools they need while protecting against foreign object damage.

"The ability to monitor several boxes from one central computer offers managers and supervisors a huge time saving advantage."

**For technical details visit: [snapon-](http://snapon-industrial.co.uk)**

**industrial.co.uk; call (01536) 413904 or**

**e-mail:**

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#### PRODUCT CERTIFICATION

ExVeritas offer highly accredited and internationally accepted product certification including UKCA Ex, ATEX, IECEx and North American Listing with award winning 'customer service' levels. Our unique 'CMS' system gives customer 24/7/365 access to their quotes, certification project status, and issued certificates. Whilst we specialise in explosion safety, we also have in house EMC and Electrical Safety testing to offer turnkey global approvals.



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#### The Explosive Atmosphere Safety Specialist

The ExVeritas Group provides Product Certification, Management System Certification, CompEx Certification and Site Safety Services. We are a UK Government Appointed Body for UKCA 'Ex', an ATEX Notified Body and an IECEx Certification Body and Test Laboratory

Our Product and System Certification is internationally recognised for global markets, and we can parallel issue UKCA, ATEX, IECEx and UKAS ISO9001 Certifications to save our clients time and money. For sites we offer safety consultancy on explosion safety including equipment risk assessments and Ex inspection. We also qualify people with CompEx certification as well as specialist and bespoke training.

ExVeritas is a multi-award-winning company including the 'Queen's Award', the highest honour that can be bestowed on a UK company. We have a proven track record of delivering world class certification, consultancy and training.

With Certification Bodies in the UK, Mainland Europe and North America and training facilities in the UK, Malta, Italy, Denmark and Ireland, we can offer a global service and a cost effective and efficient service.

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#### NORTH AMERICA

3000 Forest Ln, Suite 400,  
Garland, TX 75042

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#### MANAGEMENT SYSTEMS CERTIFICATION

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#### SITE SAFETY

ExVeritas conduct electrical and non-electrical 'Ex' Inspections. We also offer explosion risk assessments, fitness for purpose assessments and even 'on site' UKCA, Notified Body or IECEx Certification. All of this makes us uniquely positioned to deliver full compliant explosion safety solutions, including our unique online and tablet based 'iEx Inspection & Management' solution.



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[info@exveritas.com](mailto:info@exveritas.com)



# IECEX Scheme Updated For Hydrogen Fuel Dispensers

**T**he IECEX Certified Equipment Scheme have published OD 290 - Harmonized procedures for IECEX certification of equipment, components and systems associated with the production, dispensing and use of gaseous hydrogen.

IECEX ExCBs and ExTLs such as ExVeritas are required to apply these publications to all new applications for certification of Hydrogen dispensing equipment and dispensing units, treated as assemblies according to IEC TS 60079-46. The new operational document outlines tests to be conducted when assessing gaseous hydrogen dispensers, they include:

- Leakage test
- Impact test
- Dispenser shutdown test
- Hose rupture
- Hose breakaway test
- Electrostatic discharge test
- Earth (ground) continuity
- Dielectric voltage-withstand test
- IP Tests

applied to any combination of certified equipment from diesel skids to pump sets. Assembly Certification gives end users confidence that the package they have had delivered are assessed by a 3rd party and simplifies the marking of the overall package. IEC TS 60079-46 is required for IECEX Assembly Certification but can also be used as the basis for ATEX and UKCA Approval if requested.

## Purge and Intrinsic Safety Standards Update

Just to note there have been major updates to the Purge and Pressurization Standard and the new Intrinsic Safety Standard (which has just been published). These are very significant updates with approximately 40 major technical changes in each so will need to be considered carefully by manufacturers who use these concepts.

**Sean Clarke CEng MSc FIET is the Managing Director of ExVeritas Limited.**

**ExVeritas provides Product Certification, Management System Certification, CompEx Certification and Site Safety Services and are a UK Government Appointed Body for UKCA 'Ex', an ATEX Notified Body and an IECEX Certification Body and Test Laboratory**

IEC TS 60079-46 is for the certification of 'assemblies' and can be

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solutions in explosion hazardous and industrial areas.**



# Wolf recommends ATEX certified lighting for safe use in potentially explosive hydrogen atmospheres

**U**sing ATEX or IECEx certified lighting in atmospheres where hydrogen may be present is strongly recommended as a safety precaution by technical experts at Wolf Safety.

While acknowledging that hydrogen's 'green' credentials are highly encouraging, Wolf Safety believe the risks of explosion in atmospheres where hydrogen is present should not be underestimated.

As world leaders in the design and manufacture of portable and temporary lighting for use in hazardous areas, Wolf Safety are well aware of hydrogen related risks and offer safe, certified lighting solutions for use in hydrogen atmospheres.

Says Michael Morley, the company's Technical

Director: "Engineers and technicians working where hydrogen or other explosive gases or vapours could be present can be confident that Wolf has a safe, ATEX certified and cost-effective portable and temporary lighting solution which can be tailored to meet their specific needs."

The company's range of portable lighting, temporary lighting and power distribution solutions includes products already certified for safe use in workplaces where hydrogen gas could be present.

They include Wolf's robust yet highly portable WF-300@XL and WF-250XL LED floodlights which are used worldwide, especially by engineers inspecting, repairing and maintaining storage tanks in the oil and gas industry.

The robust WF-250XL, easy to carry and more

economical than comparable units, produces over 3,000 lumens of white light, more than enough to illuminate a 5m square tank or similar space without dazzling.

It effectively illuminates smaller work areas when using a limited power supply, providing the optimum level of light for working in confined spaces at lower cost. It's also lighter and more compact than similar products, is easily carried and consumes less electrical power."

Mains and low voltage versions of floodlights and luminaires, battery powered LED work lights, torches, handlamps, head torches and warning lights are also available from Wolf Safety.

**For technical information visit:**  
[www.wolfsafety.com](http://www.wolfsafety.com)

## TOUGH & RELIABLE IN HAZARDOUS AREAS

- ATEX/IECEx ZONE 1/21
- UP TO 3,100 LUMENS (EMITTED) - IDEAL FOR SMALLER CONFINED SPACES
- UP TO 8 LIGHTS CAN BE CONNECTED FROM ONE WOLF TRANSFORMER
- FULLY LINKABLE (UP TO 20 LIGHTS CAN BE STRUNG TOGETHER WITH THE HV VERSION)
- SOVI™ TECHNOLOGY ALERTS THE USER IF LIGHTS ARE RUNNING OUTSIDE CERTIFIED AND OPTIMAL VOLTAGE RANGES
- CERTIFIED SAFE TO 0 VOLTS
- IDEAL FOR 24 VOLT APPLICATIONS WITH A LIMITED POWER SUPPLY
- TOUGH, RELIABLE, PROVEN MATERIALS FOR LONG LIFE



CHOOSE THE ULTRA RELIABLE  
**WF-250XL**  
LED FLOODLIGHT

**Wolf**



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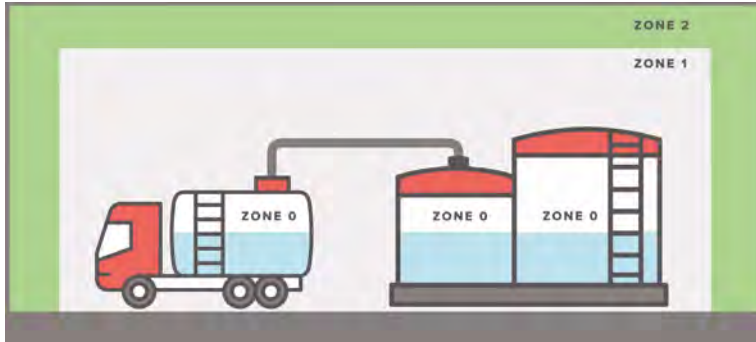
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E: [INFO@WOLFSAFETY.COM](mailto:INFO@WOLFSAFETY.COM)



Test Products International Inc.

# Condition Monitoring Solutions

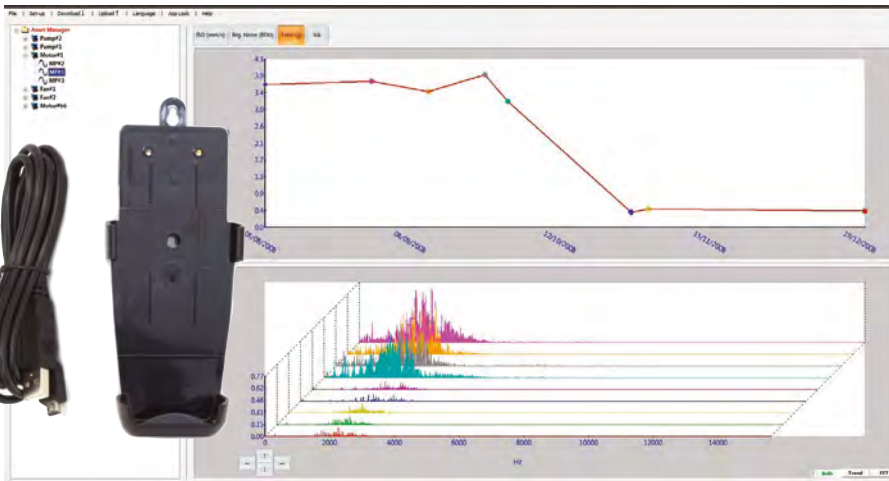
Intrinsically Safe IECEX/ATEX certified Vibration Analyser for use in Zones 1 & 2 hazardous locations anywhere in the World



Intrinsically Safe  
IECEX/ATEX  
**Ex** ib IIC T4 Gb  
(-20°C ≤ Ta ≤ +40°C)

## 9080-Ex Analyse, Interpret & TREND readings.....

with VibTrend PC software,  
docking cradle & USB cable  
at a very affordable..... £3,500



- Measure & Download Unlimited Assets & Test Points
- Easily identify bearing faults with BDU readings
- Measure vibration to determine "Out of balance", "Misalignment" or "Looseness" problems with built in band filters
- ISO Built-In Alarms as well as 800 line FFT spectrum, all on a Full Colour OLED Display
- Set Routes for personnel to follow to help with asset & test point identification
- Receive e-mail **ALERTS** when 9080 is docked and a potential problem is highlighted on a route
- Collect, Email & Trend Data over time to help predict potential problems **BEFORE** they happen



**See the Problem before it becomes the Problem**

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# What Is ATEX And Why Is It Important?

**A**TEX is an acronym for "Atmospheres Explosives" and refers to a set of European Union (EU) directives for the design of electrical equipment suitable for use in hazardous locations where an explosive atmosphere could exist. Typical hazardous locations include the more obvious places such as flour mills, coal mines, petrochemical plants, fuel transfer facilities etc. However, some not so obvious hazardous locations also include waste water treatment plants, saw mills, tunnels and underground passageways or any location where a build-up of naturally occurring flammable material (such as methane or dust) could occur.

In many of these locations there is a need for condition monitoring, for example by measuring temperature or vibration of rotating machinery. The equipment needed to do the monitoring must therefore be "intrinsically safe", in other words it must be incapable of igniting an explosive atmosphere, should one exist. This is where ATEX comes in, as in order to be considered "safe", equipment needs to be certified for use in hazardous locations.

Definitions of areas subject to explosive atmospheres  
The likelihood of an explosive atmosphere existing is dealt with by the definition of various zones, and for IECEx (Worldwide) & ATEX (European) standards the following zones are defined:

Zone 0 - an area in which an explosive atmosphere is present constantly or for long periods or frequently.

Zone 1 - an area in which an explosive atmosphere is likely to occur in normal operation occasionally.

Zone 2 - an area in which an explosive atmosphere is not likely to occur in normal operation but, if it does occur, will persist for a short period only.



Figure 1 – Examples of IECEx and ATEX zones

## Affordable intrinsically safe instruments for condition monitoring

Intrinsically safe instruments can cost many times more than their non-intrinsically safe equivalents. This is partly due to the increased manufacturing costs (e.g. additional safety components and encapsulation) but also due to the high cost of certification. However, Test Products International (TPI) believes it has introduced a real game-changer with the certification of the very affordable TPI 9080Ex. IECEx/ATEX certified for use in Zone 1

and with North American approval for Class I, Zone 1, the TPI 9080Ex is certified for use in hazardous locations anywhere in the world.

The TPI 9080Ex uses industry standard BNC connected intrinsically safe accelerometers and offers on-meter analysis for detection of machine faults such as unbalance, misalignment, looseness and bearing wear. With full colour OLED display and Bluetooth communications, the TPI 9080Ex features colour coded alarms and zoomable on-screen vibration frequency plots with cursor readout. It can store lists (routes) of up to 1000 machines, each with up to 10 measurement points, with full waveform and frequency spectrum (FFT) capture.

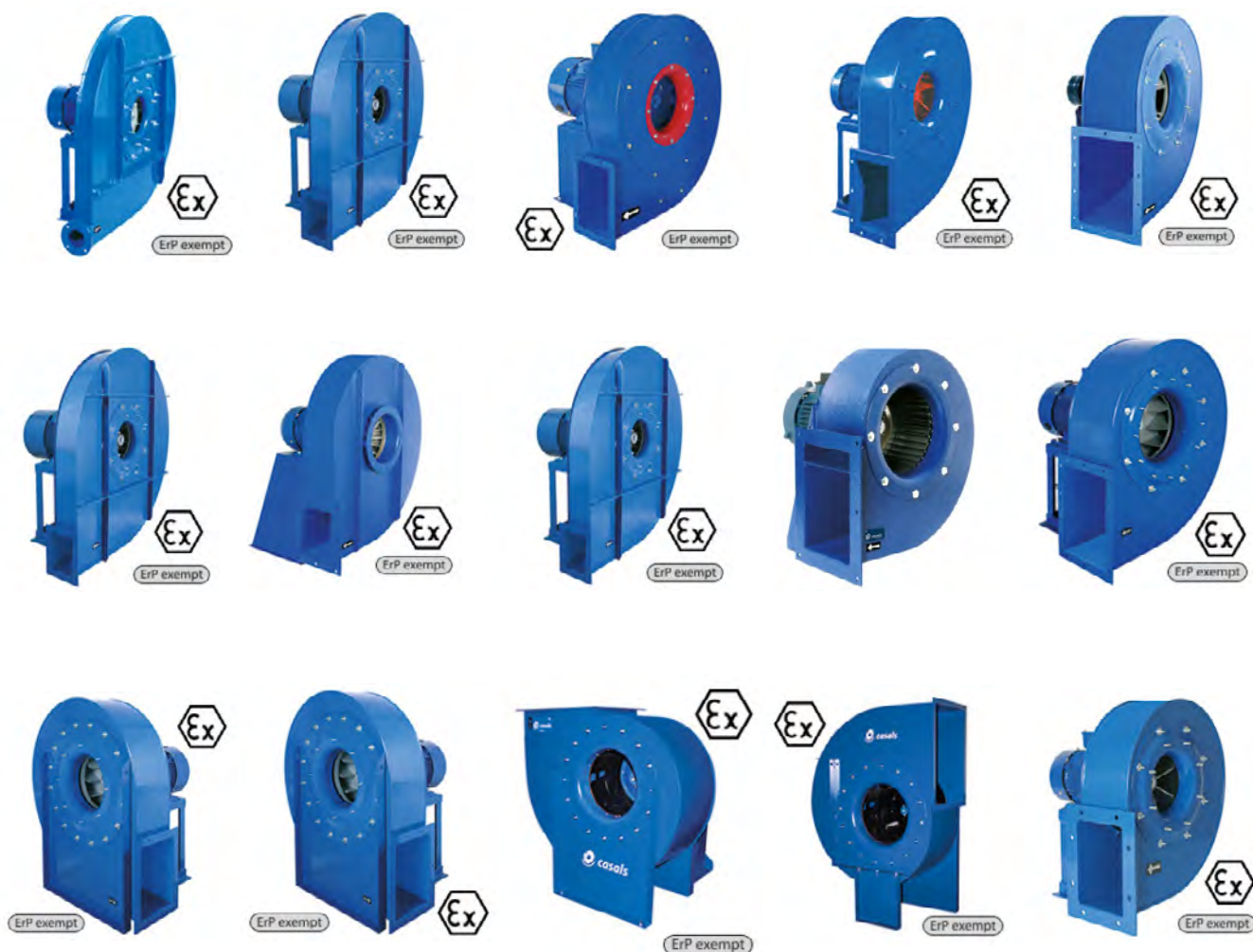
The included VibTrend PC based trending and reporting software has features normally only found on high-end software such as automatic email notification of alarms and report generation. The windows based software is totally intuitive so it can be used easily and effectively by both expert and novice users to implement a full CBM strategy. In-line with TPI's philosophy of being the value leader, the TPI 9080Ex comes at the incredibly low list price of only £3,500 that includes a full VibTrend software license.

**For more information please contact TPI Europe's head office on +44 1293 530196 or take a look on the website at [www.tpieurope.com](http://www.tpieurope.com) [sales@tpieurope.com](mailto:sales@tpieurope.com)**



# ATEX Certified Fans for Gas Group IIC: Hydrogen

A wide range of ATEX compliant axial, centrifugal and roof fans suitable for Gas Group IIC to ensure the adequate and safe removal of Hydrogen gas. Request a quote online at [www.axair-fans.co.uk](http://www.axair-fans.co.uk) or talk to one of our fan integration experts on **01782 349430**



# Reducing Mechanical Sparks & Friction Explosions with ATEX Fans

**M**echanical sparks and friction are one of the most common causes of ignition of flammable gases and dust clouds. Accident statistics in Germany indicate that mechanical sparks and friction as an ignition source occurred in 32.7% of incidents. Incorrectly selected, or fans deemed unsuitable for hazardous areas, can produce an effective ignition source caused by various incidents; hot surfaces, by mechanically generated sparks because of friction, impact, or abrasion processes (because of contact between the rotor – the rotating part, and fixed components) or by the electric discharge of static electricity when using non-conductive materials.

In the normal operation, or in the event of malfunctions (whether standard or rare), possible friction caused by areas meeting one another can occur. As stated in the ATEX directive and adopted into UK legislation, potential areas of contact between the rotating elements and fixed components of equipment for use in potentially explosive environments, should be manufactured from materials in which the risk of ignition caused by friction and friction impact sparks, hot spots or hot surfaces is minimised. This applies specifically to the construction and manufacture of explosion proof industrial fans. Ignition risks cannot be completely eliminated but can be significantly reduced by taking suitable constructive measures for avoiding ignition sources.

European and UK Directives are clear on

the permissible material pairings that are suitable to reduce the ignition source caused by friction of rotating and fixed component parts. Material pairings are considered carefully by fan manufacturers and authorised bodies. They use their theoretical and practical knowledge, coupled with the known application conditions for the environment in question, the safest material pairing and other compulsory technical specifications to determine how a product is chosen for an explosive environment. Material pairings are devised and communicated in legislation documentation to minimise the risk of an explosion. Industrial fans in systems or machinery, are generally not supervised continuously and contact between rotating and stationary or fixed components, may occur in a particular area for an unknown amount of time, potentially in long intervals.

## Metal to Metal Ignition

Metal to metal ignition is caused either by rubbing friction, as mentioned earlier, such as between a rotating impeller and a stationary piece of metal, or by impact of two metal objects. Research has shown that in metal-to-metal contact, the properties of the more readily oxidised metal, normally determine the degree of ignition hazard. The hardness, melting point, ignition temperature, specific heat conductivity and brittleness of the metals all play a role, in that they determine the size, duration, temperature and heat capacity of the incandescence sparks.

An important precondition for all the protection principles is that parts which are in unhindered contact with the explosive

atmosphere must not be able to reach non-permitted high temperatures with respect to the ignition temperature of substances present in the site of installation. This means that the ignition temperature is relevant for all protection principles. We cover temperature classes and surface temperature on our website.

The standard EN14986 dictates minimum design rules that industrial fans for hazardous areas should comply with. In relation to the material pairings that we introduced earlier, the below briefly seeks to improve your knowledge of the parts of ATEX fans that indicate the rotating and stationary parts that must be manufactured from these permissible materials to reduce the risk of sparks and hot spots due to frictional rubbing in the event of movement between the two parts. For more information on a wide range of ATEX topics please visit our website.

## ATEX Axial Fans

In axial fans the two parts are:  
Rotating: Impeller, tip of the blades.  
Stationary: The fan casing & ring

[www.axair-fans.co.uk](http://www.axair-fans.co.uk)

1. Casing in carbon laminated steel
2. Standard motor
3. Impeller in aluminium





# UL Certification Granted For The LevelEx

**T**he use of components in potentially explosive atmospheres, such as in the chemical and pharmaceutical industries, agriculture, woodworking and the metal industry, is governed by strict standards. With its LevelEx Ex cable gland, PFLITSCH is breaking new ground in terms of safety and ease of assembly.

The LevelEx consists of just four parts, which are simple and safe to assemble and take up little space. A special feature of the gland: the sealing elements have a captive design and cannot be lost during assembly. The LevelEx is available in nickel-plated brass and stainless steel, each version in sizes M16 to M75, with NPT threads from 3/8" to 2 1/2". Its large sealing range means that cables from 7

mm to 66 mm can be tightly sealed. Thanks to the silicone sealing insert, the glands can be used in applications in the temperature range from -60 °C to +130 °C.

The compact Ex cable gland complies with protection types "Ex-db" for flameproof enclosure, "Ex-eb" for increased safety and "Ex-ta" for protection by enclosure. It satisfies the demanding requirements of protection ratings IP 66, IP 68 and Type 4X.

The international ATEX, IECEx, VDE, DNV, CCC, KCs and UL Listed certificates – the latter demanding very stringent requirements – granted verify that this PFLITSCH cable gland can be reliably used even under extreme conditions. In an industrial environment, a product can be either UL Recognized or UL Listed. The difference lies in the degree of

compliance with UL requirements. In potentially explosive atmospheres, the complete set of requirements must be met.

In order to obtain ATEX and IECEx certification, the cable gland must pass an overpressure test conducted at 30 bar for 10 s, in accordance with EN 60079-1. The LevelEx was tested with a test pressure of 48.6 bar, which corresponds to a reference pressure of 32.4 bar if the gland is used at an operating temperature of -60 °C.

## Contact:

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**Frauke Ulrich/Marketing**

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Germany**

**Phone: +49 (0)2192 911 0**

**E-mail: [FraukeSolveig.Ulrich@pflitsch.de](mailto:FraukeSolveig.Ulrich@pflitsch.de)**

**Web: [www.pflitsch.de](http://www.pflitsch.de)**

# ATEX ZONES

Explosive atmospheres in the workplace can be caused by flammable gases or by combustible dusts.

Explosions can cause loss of life as well as significant damage.

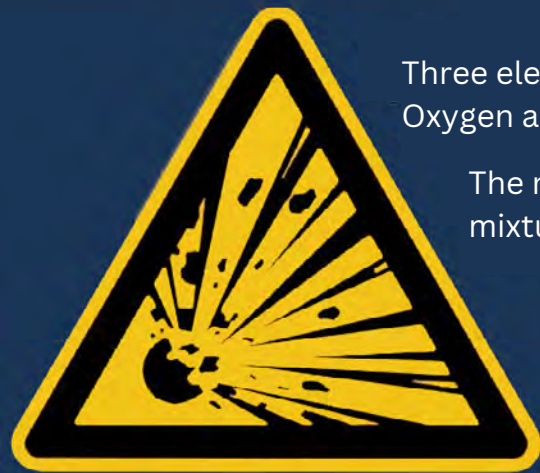


**GAS**  
explosive  
atmosphere



**DUST**  
explosive  
atmosphere

## RISK TYPES



Three elements are required to cause an explosion: Fuel (gas or dust), Oxygen and an Ignition source such as electric sparks or a short-circuit.

The risk of an explosion is based on the probability of a fuel and oxygen mixture occurring over time.

## CAUSES OF EXPLOSIONS

## EXPLOSION PREVENTIVE DEVICES



Model 507  
Temperature Switch



ULM-70 Ultrasonic  
Level Meter



FC Series  
Temperature Switch



GWG Overfill  
Prevention Sensor



# HAVSPRO Offers Industry-First Full-Service Aftercare For Health & Safety Monitoring

**T**he team behind HAVSPRO, the real-time, on-tool solution for the measurement and monitoring of workplace vibration, now offers a full-service aftercare package for customers – the first of its kind in this sector. The service is included at no extra cost within a HAVSPRO subscription.

The aftercare package is designed to provide customers with absolute assurance they are getting the best from HAVSPRO's monitoring and measurement devices and data. It begins with a complete on-site installation by the HAVSPRO technical team and continues to include support in understanding the vibration data itself. The HAVSPRO team is always on-hand to provide insights into the data captured and how it can be used to proactively reduce the risk of vibration exposure. This may include form best practice in tool management, and support in building business cases for investment.

This extensive aftercare service also provides access to the company's team of experts in Hand-Arm Vibration Syndrome (HAVS) and Whole-Body Vibration (WBV) for any questions customers may have, at any point during their subscription and not just at the beginning.

"The purpose of HAVSPRO is to prevent these conditions from arising, by offering accurate, real-time analysis of workers' vibration levels. And that means supporting our customers throughout the entirety of our partnership," explains Russ Langthorne, Managing Director of HAVSPRO.

"This is why we provide such a robust and complete aftercare service for our customers, regardless of how many operatives or tools they may have – no one should suffer from the effects of vibration exposure. And it all starts with the installation of the system and the full training for operatives. If they don't understand how easy it is to click and unclick their sensors on and off the tools, they aren't going to reap the protection the system offers." Russ explains that the commitment to an inclusive, full-service offer was born out of the discovery that there was limited installation and aftercare available in the sector.

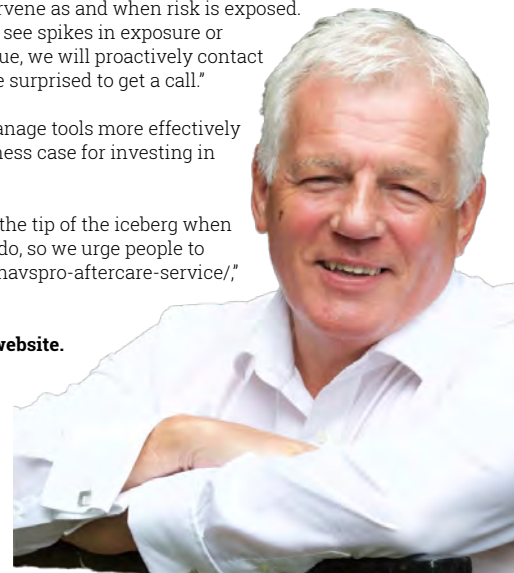
"We hear too often that a company has been sent all the hardware and software, has to set it up themselves, and then if they need support, the vendor adds on extra cost. That's not how we do things at HAVSPRO. It's about care and support and it is what customers should expect."

HAVSPRO's install team delivers a complete installation, set up and training programme at the customer's premises. As HAVSPRO is a Cloud-based platform, all software updates are rolled out without disruption. Similarly, this enables the system to be adapted and developed to suit changing business circumstances. Crucially, with real-time access to the data, HAVSPRO will help customers to understand what's happening and can intervene as and when risk is exposed. "We keep an eye on your data and when we see spikes in exposure or unusual readings that could indicate an issue, we will proactively contact you to discuss – our customers shouldn't be surprised to get a call."

Support might include advice on how to manage tools more effectively – or even utilising data to support the business case for investing in additional or more innovative tools.

"The distinctive yellow HAVSPRO device is the tip of the iceberg when it comes to exploring what the system can do, so we urge people to find out more at <https://www.havspro.com/havspro-aftercare-service/>," concludes Russ Langthorne.

**For more information, visit the HAVSPRO website.**  
<https://bit.ly/3lBalm6>





# Teledyne FLIR Launches Compact Thermal Camera For Use In Hot Working Zones

**T**eledyne FLIR has announced the launch of the FLIR Cx5, a new pocket-portable thermal camera for condition

monitoring in hazardous environments. The FLIR Cx5 has a rugged ATEX-compliant case, which allows users of this camera to safely monitor electrical or mechanical assets in hot working zones. Potentially explosive environments, such as oil and gas plants or chemical plants, need to be protected from ignition sources.

That's why electronic devices used in these hot work environments need to comply with ATEX Product Regulations or similar regulations (e.g. UKEX and IECEx). The 160 x 120-pixel FLIR Cx5 is mounted in a rugged enclosure, which enables users to work confidently while maintaining safety. "In hazardous environments, it's critical for surveyors to be able to detect problems fast, so they can react accordingly," says Michael Deruytter, Sr Director Product Manager at Teledyne FLIR. "The FLIR Cx5 is not only explosion-proof, but it's also compact and very easy to use.

This allows maintenance professionals to always have their camera at hand, find hidden issues quickly and reduce diagnostic time." The FLIR Cx5 camera has all the ruggedized features that will enable it to survive the toughest day on the job. The FLIR Cx5 case has shock absorbers and the lens is protected by a Germanium window with anti reflective coating.

The 3.5-inch color display is protected by armored glass and is touchscreen compatible. A rugged lanyard point can be removed in

safe environments to reach the data storage and charging port. The FLIR Cx5 features a FLIR Lepton® thermal imaging sensor and FLIR-patented MSX® (Multi-Spectral 1/2 Dynamic Imaging) technology, which embosses visible scene details onto thermal images. This results in a crisp thermal image, enabling inspectors to pinpoint hidden problems instantly.

FLIR Cx5 is compatible with FLIR Ignite, a secure cloud storage solution that allows users to directly upload, edit, organize and share their images. With all images and videos in one place, sharing data with team members and creating reports for customers is convenient and simple. FLIR Cx5 users can also rely on the FLIR Thermal Studio software to finetune their images and create professional reports. The FLIR Cx5 will be available for purchase from December onwards.

Please consult your authorized distributor for pricing and availability information. To learn more, please visit [www.flir.com/Cx5](http://www.flir.com/Cx5). About Teledyne FLIR Teledyne FLIR, a Teledyne Technologies company, is a world leader in intelligent sensing solutions for defense and industrial applications with approximately 4,000 employees worldwide. Founded in 1978, the company creates advanced technologies to help professionals make better, faster decisions that save lives and livelihoods. For more information, please visit [www.teledyneflir.com](http://www.teledyneflir.com) or follow @flir.



# Product Safety To Come Under The Spotlight In 2023

BSIF CEO Alan Murray explains why 2023 will see a greater focus on product safety, including increased scrutiny on the safety and compliance of goods sold by third-party sellers on online marketplaces.

**T**he UK has always had a reputation for stringent product safety standards but with constant innovation and the rise of e-commerce many markets have become increasingly hard to regulate.

PPE is a case in point. The COVID pandemic highlighted how quickly substandard and

potentially dangerous products can find their way onto the market with reports suggesting billions of pounds of public money were ultimately wasted on unusable PPE.

Unfortunately substandard PPE isn't just a COVID problem. Unacceptable products have been finding their way on to UK marketplaces prior to COVID and continue to do so today.

This is illustrated by the BSIF's latest analysis. As well as auditing the BSIF membership annually to verify their compliance and competence, we test a selection of PPE from non-BSIF members.

Between December 2021 and December 2022, a total of 118 non-member products were tested. Only 15 (13%) of these products passed the test, with the results for five of the products still pending. This means 98 products (83%) failed to meet the test's criteria, many of which are still available and being sold to unsuspecting users.

These findings are in contrast with products supplied by BSIF Registered Safety Suppliers who are committed to only selling certified PPE and trading honestly and ethically  
What's changing?

2023 will see the introduction of a new post-EU Product Safety Framework which will help to strengthen the rules around the sale of products including PPE. Timings for publication of the framework are still to be confirmed, but there will be a strong focus on improving the safety and compliance of goods sold by

third-party sellers on online marketplaces. We expect to see stricter responsibilities for online vendors and harsher penalties for those who fail to comply.

At the same time, the Environmental, Social & Corporate Governance (ESG) agenda is having a growing impact. Companies looking to strengthen their ESG performance are closely scrutinising the credentials of their suppliers and choosing only to work with responsible companies. When it comes to buying PPE and safety equipment, many buyers now realise that specifying the BSIF's Registered Safety Supplier Scheme is the easiest way to ensure they are only dealing with suppliers who are compliant, competent and trustworthy.

It's therefore no surprise that we saw a significant number of public and private sector organisations mandate the Registered Safety Supplier Scheme for their supply chains in 2022. As the focus on products safety sharpens in 2023 we expect that number to increase.

**For a full list of Registered Safety Suppliers, visit:**

**<https://www.registeredsafetysupplierscheme.co.uk/>**

**About the British Safety Industry Federation:**

The British Safety Industry Federation (BSIF) is the UK's leading trade body within the safety industry. BSIF members include manufacturers, distributors, test houses, certification bodies, safety professionals and service providers.

Our aim is to provide support and guidance on a wide range of occupational safety issues.

**Find out more at [www.bsif.co.uk](http://www.bsif.co.uk) or by calling (0)1442 248744**





# Fewer Accidents Thanks To Sustainable Safety Culture

**B**ehavior-based occupational safety sustainably lowers the number of accidents / Vision Zero as the target / Interdisciplinary experts train managers and employees / Information and case studies at [www.tuv.com/safetyculture](http://www.tuv.com/safetyculture)

Solihull, January 17, 2023. An estimated 85 percent of all workplace accidents are behavior-related. Even companies with a high organizational and technical occupational safety standard are facing this challenge. As longer accident-related downtimes are generally difficult to compensate personnel-wise, "Vision Zero" is increasingly becoming more important for companies. To achieve the goal of zero accidents, TÜV Rheinland, a globally active testing company with over 20,000 employees worldwide, now offers companies in the UK behavior-based occupational safety in addition to classic, formal occupational safety measures.

"Our behaviour-based safety solutions are designed to measure and improve an organization's safety culture, so that world class safety performance can be achieved in a sustainable way over time," says George Bradley, Occupational Safety Expert at TÜV Rheinland UK.

## Winning the hearts and minds of the workforce

Behavior-based safety (BBS) looks at the employee behaviour and identifies the root causes to behaviour, which is often a result of

workforce attitudes to, and perceptions of, the organization's safety message. "A common factor for bypassing safety rules is time pressure:

For example, employees don't take the time to get a ladder, but instead climb on their office chair to get something from the top of a cabinet," explains George Bradley. If this unsafe behaviour is paired with praise for the speedy completion of the task, this unsafe behavior is reinforced and might be copied by other co-workers. The aggregate of habits shapes a company's safety culture.

## Managers and employees share the responsibility

"A sustainable improvement in the safety culture means replacing bad habits with good ones. Managers play an important role in this process, because they act as role models and represent the corporate philosophy," stresses Bradley. Managers should therefore always comply with the applicable occupational safety rules, even – or especially – under time pressure.

In addition, they must effectively lead good safety practices with employees in a motivating, rather than accusatory manner. "Positive reinforcement instead of blame is a core element of effectively leading a sustainable safety culture," says Bradley.

Specially trained TÜV Rheinland industrial and organizational psychology experts train managers to improve their communication skills and leadership ability in this domain.

However, a sustainable safety culture is not a top-down strategy. Instead, it should encourage all employees to become actively involved.

## Wanted: Professional implementation with a 360° view

Behavior-based occupational safety leads to significant safety culture improvements and consequently to a sustainable return on investment.

Expertise in all aspects of occupational safety and a profound understanding of the interactions between technology, organization and people are essential prerequisites.

"Our experts tailor the measures to be taken individually to a specific company while making sure to include already existing tools. Behavior-based occupational safety is not a one-off intervention with an immediate effect, but rather a process," explains occupational safety expert George Bradley.

In the field of sustainable safety culture, TÜV Rheinland cooperates exclusively with SeaChange. The Irish company specializes in behavior-based occupational safety and has already achieved an average accident reduction of up to 50 percent in a wide range of client companies using this methodical and evidence-based approach.

**At [www.tuv.com/safetyculture](http://www.tuv.com/safetyculture) there is detailed information on sustainable safety culture as well as case studies**

# WATER JETTING TRAINING FOR MAINTENANCE AND ENGINEERING



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[info@waterjetting.org.uk](mailto:info@waterjetting.org.uk) | +44 (0) 208 320 1090 | [www.waterjetting.org.uk](http://www.waterjetting.org.uk)

Water Jetting Association - The Engine House, Veridion Way, Erith, Kent, DA18 4AL, UK

# Water Jetting Body Takes Training Global To Meet Demand

**T**he Water Jetting Association, the member organisation for the water jetting industry, is to allow its courses to be delivered by training providers based outside the UK for the first time.

The decision will help meet growing demand for water jetting operatives based around the world to benefit from WJA training. The WJA Training and Safety Committee approved the change, which was then ratified by the WJA Ruling Council at its meeting in November 2022.

A key ruling is that WJA-approved training providers and instructors based in other countries will not be permitted to deliver training in the UK.

WJA President John Jones said: "This is a significant and exciting decision for the WJA. Requests for our training to be delivered outside the UK have increased in recent years and we want to be able to meet that demand. "Until now, our rules have required all WJA-approved training providers to be based in the UK. In most cases, this has required WJA-approved instructors to travel from the UK to other countries to deliver training." "Our decision means this no longer must be the case. If training providers and instructors meet our criteria and pass all our assessments, they can be approved by the WJA.

"That means WJA training can be delivered, for the first time, by both training providers and instructors based in any country around the world."

The WJA is the UK member body for the water jetting industry. It represents water jetting contractors, hirers, equipment manufacturers, suppliers, and training providers, and works closely with other stakeholders, including asset owners and organisations concerned about water jetting safety.

Demand for WJA water jetting training is growing in many countries, most notably in the Middle East, North Africa, and Central Asia, which have significant oil and gas industries.

WJA Training and Safety Committee Chairman Steve Williams regularly delivers training in other countries. He said: "This is a positive move. Without it, the WJA would be unlikely to keep up with demand for its training courses.

"In the Middle East, for example, WJA training is highly valued because it is based on the WJA's codes of practice that are recognised and respected for setting a clear standard for water jetting.

"Training providers and instructors in the Middle East, and other regions, will now be able to apply for WJA-approved status, which includes a process of ongoing assessment.

"This means more water jetting operatives will benefit from WJA training which can only enhance the safety and effectiveness of water jetting operations in those countries, which is a positive step forward."

To become a WJA-approved training provider, organisations must join the WJA. This requires them to sign the WJA Professional Charter and meet its stringent financial and governance criteria, as well as undergo a rigorous assessment process.

Training instructors must have a minimum of three years' experience in water jetting, related to the practical modules they plan to deliver.

They must hold a current PTTLS or Level 3 award in education or training, or their equivalent, and a health and safety qualification, at least equivalent to IOSH Managing Safely.

As stipulated by the WJA's standard operating procedures for training, they must hold a current WJA safety awareness certificate and the certificates for all practical modules for which they are competent to deliver.

Their formal application must be approved by the WJA's Ruling Council. They must agree to a process of formal assessment, including a WJA assessor attending training courses.

[www.waterjetting.org.uk](http://www.waterjetting.org.uk)



# Senior FM Stakeholders Gather To Discuss The Industry's Future At The Renowned Innovation Lab Annual Conference

**O**ver 400 likeminded individuals gather to discuss the future of the facilities management industry as they explore forthcoming trends, challenges, purposeful initiatives, and pioneering solutions at the industry's renowned Innovation Lab on Thursday 23rd February 2023.

Set in the iconic Manchester Central Convention Complex, the event promises to deliver a day of solution exploration, professional development, and networking to assist businesses in overcoming today's challenges while providing a platform to take on tomorrow's. As FM professionals continue to face several shared challenges, the Innovation Lab will host various expert speakers to address the developing financial crisis, skills shortages, shifting workforce demographics and several other subjects. As market uncertainty grows, the author of *When the Clouds Come* and influential leadership authority with a unique multi sector viewpoint on creating innovative and sustainable change, Drew Povey joins first as keynote speaker to talk about managing change and turbulence.

Up next, the Innovation Lab welcomes one of the UK's leading experts on generational change, Dr. Paul Redmond to discuss the future of work, roles at risk of being replaced by technology and how companies can establish a highly engaged workforce, particularly amongst Millennials and Gen Z. Paul writes regularly for national newspapers and other publications and is a frequent guest on radio and TV programmes, appearing regularly on the BBC and independent current affairs shows.

Subsequently, described by FORBES magazine as 'A Game Changer' and trusted by some of the biggest brands including Emirates, Warner Brothers and McDonalds, Geoff Ramm joins to talk about delivering a "Celebrity Service" and helping brands create a gap in their service experience they never knew existed, therefore enhancing customer retention.

As the "great resignation" further unfolds in a post pandemic world, Russell Beck steps onto the Innovation lab stage to deliver delegates tangible actions that unlock the potential and productivity of their most expensive asset: their people. Equally important, providing a new perspective into looking after people today to ensure they are around for tomorrow.

Finally, Figen Murray, Lead Campaigner of Martyn's Law, and Nick Aldworth, Former Chief Superintendent and Counter-Terrorism and Risk Director for Carlisle Support Services, will join to talk about Martyn's Law, a newly proposed legislation that will place more responsibility on the owners of publicly accessible locations for the security and protection from terrorist incidents.

The event also hosts a panel discussion with Arriva Rail London's HR Director Oliver Grant, Tesco's Head of Security Operations Emma Swail, Northern Trains' Head of Retail Operations Jason Wade, and Tottenham Hotspur's Safety Officer Eileen Williams. These representatives step onto the stage to talk about their

transformational success journeys in the face of change and uncertainty, delivering tangible advice to senior representatives and leaders from other organisations of various sizes that may face similar challenges.

The rail industry will have its own features with presentations and open discussions around its future as it more than doubles activities by 2050, optimising revenue protection as well as streamlining data and service provision. With delegates from over 13 of the UK train operating companies, key stage appearances include Greater Anglia, Arriva Rail London, ITAL and Carlisle's Director of Rail Strategy with over 20 years of service provision experience and more than 2,300 employees working in the sector.

Throughout the day, attendees will also be presented with various other subjects from changing the face of security, to technology in FM, associated returns for complementary people and tech strategies, procuring successful support services contracts, and the growing focus of Environmental, Social and Corporate Governance (ESG). Confirmed attendees include senior stakeholders from the UK's largest organisations such as Jaguar Land Rover, Coventry University, this year's Eurovision host M&S Bank Arena Liverpool, Tottenham Hotspur Football Club, Liverpool Football Club, Tesco, Sainsbury's, Northern Trains, Avanti West Coast and many more.

Besides learning from invaluable speakers and enjoying great food and drinks throughout the day, attendees will also be able to engage with over 50 innovators showcasing their latest solutions to deliver exceptional environments, no matter the circumstances. These include 2CL Communications, Marlowe Fire and Security, Arval UK, Reckitt Benckiser Group and many more.

Chief Executive Officer of the event's host, Carlisle Support Services, Paul Evans said: "Working with a prestigious and world-class portfolio of brands, the day will allow senior stakeholders to discuss the specific challenges they are facing, meet potential new disruptors and engage in peer-to-peer enlightenment around solutions.

We look forward to providing attendees a new perspective on sustainable innovations and robust change management for successful implementation of technological breakthroughs within existing workforce."

Following the annual conference, the event's host, Carlisle Support Services invites exclusive guests at their Annual Superstar Awards to recognise and celebrate the achievements of people across the industry. This features the introduction of the Martyn Hett Award for Contribution to Counter-Terrorism as Carlisle welcomes the implementation of Martyn's Law within the industry. The award will be presented by Figen Murray herself, the force behind Martyn's Law and mother of Martyn Hett, one of 22 people killed in the Manchester Arena bombing at the end of an Ariana Grande concert on 22 May 2017.

**Event registrations for the Innovation Lab are still available on Eventbrite at <https://www.eventbrite.co.uk/e/507406465397>.**

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