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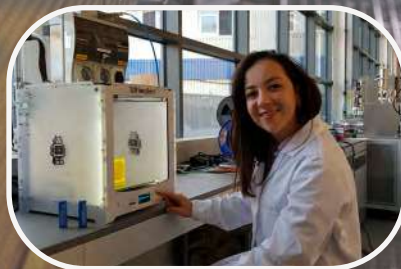
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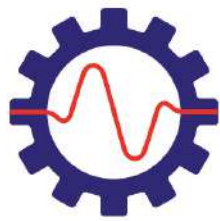
**“A reassuring feeling”
The World’s First Intelligent Lubricator
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Engineers
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Pipe Lining Leaves Shampoo Effluent System Shiny And Manageable

Pipe rehabilitation specialist Lanes Group plc has lined a main production waste pipe at a shampoo factory. Ultraviolet liners have been installed in the 300mm diameter process pipe at the plant in South Wales. The highly-sustainable no-dig project was designed to ensure the pipe will function to a high standard for decades to come.

Kyle Burgess, Area Development Manager



for the Lanes Cardiff depot, said: "This was a good example of how no-dig pipe renovation technology can be of great help to our industrial clients. "There was no real option to excavate and replace the pipe because of the need to maintain production and the high cost of such a solution.

"Lining the pipe was, by far, the best approach and Lanes had the technology and expertise to deliver it efficiently and effectively." The client, which manufactures shampoo for a global brand, commissioned Lanes to carry out the work as part of its planned and preventative maintenance programme.

It wanted to be sure process effluent could not escape from the concrete pipe into the ground. The company also wanted to stop groundwater getting into the pipe, which would needlessly

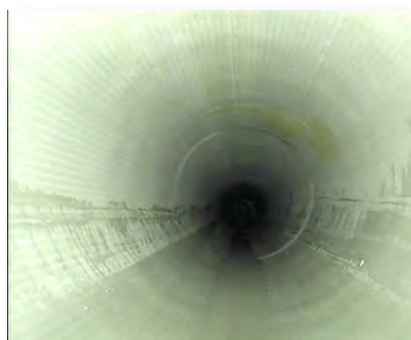
increase the volume of waste water being processed, adding to costs.

A team from the Lanes national pipe rehabilitation and lining division carried out the work, supported by drainage engineers based at company's Cardiff depot.

Lanes has extensive experience in lining production pipes across a huge range of industrial sectors, including food and drink, chemicals, water treatment, and pharmaceuticals. Working over two days, four separate ultraviolet liners were installed from manhole to manhole along the 181m pipe.

Overpumping was put in place, with water taken from upstream chambers and discharged into downstream ones through 6-inch and 4-inch hoses. In this way, each section of pipe to be emptied and lined in turn, while allowing full production to continue at the factory.

The lining was carried out to the client's



selected specification, with 3mm thick plastic UV cured in place pipe (CIPP) liners installed.

Lanes uses the latest, most efficient, UV lining technology and can insert liners into pipes with diameters that range from 100mm to 1600mm. Each liner is made up of layers of glass reinforced plastic (GRP) and resins containing a catalyst that reacts to UV light.

The liner is pulled along the pipe with a winch, then inflated with compressed air, pushing it against the pipe wall. A UV light array, made up of a series of powerful UV lamps on wheeled trolleys, is then pulled along the pipe to harden (cure) the resin layers in liner.

The power of the light array and the speed with which it travels through the pipe is set by the system's computer control system. During the lining process, two lateral pipes leading into process effluent pipe had to be reopened. This was achieved using a remotely controlled robotic cutter. UV CIPP lining is one of the most sustainable ways to rehabilitate industrial wastewater pipes, and can provide high levels of chemical resistance where it is needed.

Unlike hot water CIPP lining, UV lining does not create large volumes of waste water that needs to be disposed of at specialist sites. Also, the UV lining process takes up less space and can be completed more quickly, reducing the risk of disruption in factories where continuous production is essential. Teams from Lanes Cardiff provided CCTV drainage survey and jet vac tanker support for the project.

A post-lining CCTV survey demonstrated to the client that the liner had been installed correctly to the required quality standard, with a design life of 50 years.

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Brammer Buck & Hickman Announces Exclusive New Spartex Range

Brammer Buck & Hickman, the UK's leading supplier of industrial maintenance, repair and overhaul (MRO) products and services, has launched the Spartex range of everyday industrial essentials.

rammer Buck storage, fasteners and work clothes. & Hickman, the UK's Brammer Buck & Hickman has researched and leading sourced a wide range of products, providing supplier of customers with choice, along with quality industrial and competitive pricing. Spartex products those products are competitively priced."

are stocked in Brammer Buck & Hickman warehouses, enabling fast and efficient delivery, even at short notice.

Spartex is exclusively available in the UK from Brammer Buck & Hickman.

The Spartex brand has been introduced to Steve Seymour, Category Manager UK – Exclusive Brands, comments on the new Spartex brand:

"We know customers are time poor, so by consolidating multiple sources of supply with a single trusted partner, Spartex provides everyday industrial essentials with minimum effort. Furthermore, customers benefit from our buying power and leveraging scale to ensure those products are competitively priced."

For more information on Spartex, please go to <https://spartex.com/en/> or visit your nearest Brammer Buck & Hickman branch. To buy online, go to <https://uk.rubix.com/en/spartex>





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

For 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-industrial.co.uk; call (01536) 413904 or e-mail: ukindustrialmarketing@snapon.com

New Aerospace Contract For Rhodes Interform

Rhodes Interform, part of Group Rhodes, has secured a major hydraulic press refurbishment project win in the aerospace industry.

The contract will involve the replacement of the electrical controls and hydraulic system of a 1966 1250 Ton 'John Shaw' Powder press, originally owned by Meggitt Aerospace in Coventry, a business recently bought by Parker Hannifin.

The press is used to manufacture sintered brake pads for aircraft and is probably the only one of its kind in Europe.

Rhodes Interform's Technical Director Peter Anderton said: "This is a specialist upgrade and renovation of a vitally important piece of equipment. We won the contract based on our expertise in the manufacture, design and upgrade of presses in the aerospace sector.

The project is expected to take eight weeks to complete, minimising downtime of this important line for Parker Hannifin."

This latest contract is one in a list of new aerospace contract wins for Rhodes Interform, which recently secured an order to carry out a refit of a 1989 3000 Ton 'Chester Hydraulics' SPF press, at BAE Systems Samlesbury in the North West.

Rhodes Interform's machine refurbishments offer customers a cost-effective solution to dramatically improve equipment life and increase productivity. The company provides a complete one-stop refurbishment service, from arranging where necessary for the machine to be transported to the company's maintenance facility in Wakefield, through to retrofitting new components and re-commissioning on site.

Rhodes Interform's parent company Group Rhodes, based in West Yorkshire, boasts a 200

year metalforming history and has also been manufacturing presses to form composite materials from as early as the 1930s. The company has won Queen's Awards for both Innovation and International Trade in recent years, particularly for its work in the aerospace sector.

For more information please visit the website www.grouprhodes.co.uk or contact the Technical Sales department on

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Climate Challenges Boost Hart

A ferry ride across Hong Kong's harbour in the early stages of a typhoon caused Doug Hart, chairman, Hart Industrial Doors, to pause – just what sort of technology would be needed to create a secure, protective, shutter that could withstand the full impact of a typhoon he asked himself writes Chris Dobson.

Research shows that typhoons and their sister storm, the hurricane could generate wind well in excess of 100 mph, enough at sustained levels to break any known shutter system.

"The issues when faced with such violence is to secure buildings and potential weak areas such as loading bays and other access points. We were dealing with exceptional weather up to the super typhoon level. The power would break a standard shutter system," says Mr Hart.

Encouraged by Hart's Hong Kong partner, Hart's team re-worked on its existing Terror Screen, which is a large and heavy security shutter that offers protection for up to 20 minutes against cutting, drilling, crowbars and axes due to its exceptional robustness, to create Hart's typhoon shutter, many of which are now in service.

The development of this super shutter is timely given climate change and the likelihood of increasing storms. Indeed the UK was hit by several storms in quick succession starting with Arwen last November with sustained strong winds generating gusts up to 110 mph. The devastation was considerable with evidence of damage to forests and property large-scale and still evident today.

With climate change the culprit there is a rush to minimise the impact of fossil fuels by accelerating the transition to clean energy. One hundred nations pledged to end deforestation

by 2030 at the recent COP but record numbers of trees have been recently plundered from Brazil's part of the Amazon.

Despite best intentions therefore, climate change is going to rumble on. How does this global conversation impact on the mere mortal living, for example, in North East England? The late storms of 2021, which continued into 2022 have already been referred to. But with damaging storms likely to be a feature of our weather pattern it is best to be prepared.

The initial Hong Kong experience has been an opportunity for Hart to develop a very strong shutter system drawing on its experience with the Typhoon shutter which is proven to be able to withstand violent storms. With more storms of the Arwen strength forecast, a high-performance roller shutter which is a wind-resistant, robust and electrically operated roller shutter system is essential.

Perfect for high security in areas exposed to extreme winds from major storms and it complies with the current British and EEC safety regulations. Further during its development Hart third party tested the shutter which revealed it could withstand various high-pressure levels up to 4000 pascals.

As a brand it is a perfect match for Hart's Speedor range of high-speed, automatic doors. Just as the Typhoon shutter is about strength and protection, Speedor is about high-speed and frequent use in high-traffic situations, improving working conditions and saving energy.

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SeaShield 2000FD™ System selected for jetty pile protection at RNLI Lifeboat Station

Winn & Coales (Denso) Ltd's SeaShield 2000FD™ System was recently specified for the protection of 31 jetty piles at the Royal National Lifeboat Institution's (RNLI) station in Padstow, Cornwall.

The existing epoxy coating on the piles had begun to fail due to its length of time in service and abrasion caused by exposure to the local marine environment. The complete coverage of each pile required the installation team from PSJ Marine Services to work at height, from the beach, and subsea to fully protect the 16 piles of 762 mm diameter and 15 piles of 813 mm diameter.

The SeaShield 2000FD System, consisting of Denso Paste S105™, Denso™ Marine Piling Tape and a tough outer HDPE jacket, offers heavy-duty protection from corrosion and is suitable for application both above and below the water line, making it the ideal choice for this project and making Padstow the latest RNLI site to be protected with a SeaShield system.



Coventry University Research Engineer Shares Five Helpful Tips For Women Who Want To Succeed In Engineering

Being fearless has helped Dr Lorena Caires Moreira forge a career in the male-dominated world of engineering – now the Coventry University researcher says it is one of her five top tips for future female engineers.

Lorena has been working with engineering and technology for a decade and is a research fellow in Coventry University's Institute for Advanced Manufacturing and Engineering (AME), where she helps transform engineering problems into innovation opportunities by leveraging the capabilities of emerging technologies.

A recent report released by the House of Commons revealed that companies with a higher percentage of female leaders outperformed those dominated by men and highlights that women should play a major role in the UK's post-pandemic economic recovery.

Lorena hopes that report will stimulate further change in her industry.

She said: "Currently, the very dynamic global scenario including customers' demands for personalised products, fast technological advancements, connected factories (Industry 4.0), and net zero targets have

placed the weaknesses (or limitations) of traditional engineering approaches in the spotlight. The engineering and technology sectors need people who can think systemically, crossing disciplinary boundaries, and capable of assessing the impacts of decision-making for highly complex environments and with considering multiple dimensions – business, process, people and planet."

"Such a scenario is reshaping the skills of future engineers and providing a positive environment for women to thrive in the sector. Women have played a major role in engineering and leadership and more of us are needed to help achieving a better, stronger and more sustainable world."

Now Lorena has shared her top tips to help others follow in her footsteps and be a catalyst for change:

1. Be fearless. It might be a plus that I grew up around two older brothers and joined a futsal club, a very male dominated sport at the time, when I was only seven years old, hence, I'm comfortable being in any environment despite the gender ratio. Nevertheless, no woman should be afraid of building a career in engineering due to the ratio of men to women, use it as an extra encouragement to be a trailblazer and create change for the future. Always speak with confidence, clarity and certainty. Give yourself enough time to be

prepared and never be afraid of asking questions and to be heard. Fearlessness must come with wisdom, and wisdom comes from the ability to listen, learn, assess and understand others and the wider picture of your actions.

2. Have fun. There has never been a better time to join a career path in engineering for women, given the technology advancements and the need for new innovative thinking. I have a lot of fun working in engineering and technology and that's partly because the environment allows me to fully explore my potential for both technical and soft skills. The fact that engineering remains

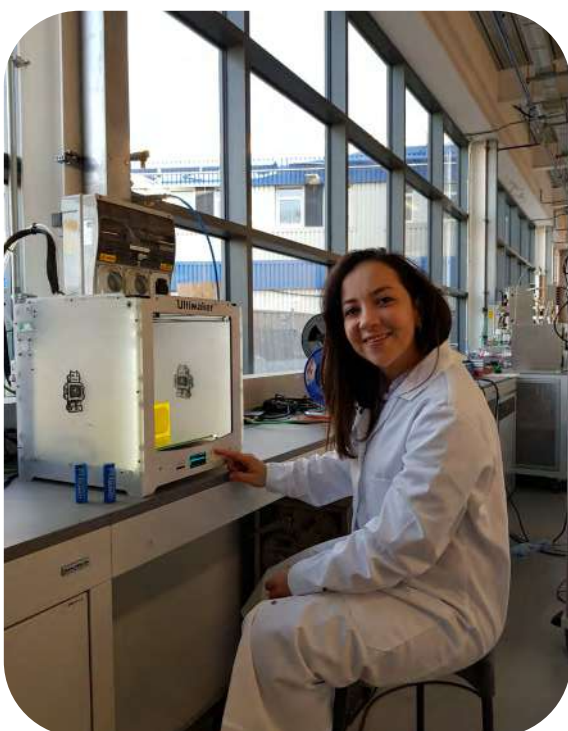
a male dominant sector poses extra challenges that require me to stretch my comfort zone in all directions and I really appreciate evolving and learning everyday.

3. Make kindness your superpower. Empathy and kindness are powerful skills that can be used to show respect and appreciation towards your colleagues. Help others and you can help create a supportive and collaborative work environment. Emotional intelligence can be an undervalued skill and it can mean different things depending on the circumstances but the world is changing and social sustainability and workforce wellbeing are increasingly becoming key indicators within engineering approaches.

4. Collaborative communication. Be curious about people at work in a professional way; ask about their professional experiences, projects and areas of expertise to find out how they, eventually, could support you. At the same time, let people know how you can help by sharing your experiences, expertise and areas of interest. Whether using email, virtual calls or face to face, make good use of a friendly, objective and professional communication.

5. Know that you belong. To best thrive in this industry you need to feel equal, know your worth and find a sense of belonging. We are seeing various initiatives towards more equal, diverse and inclusive (EDI) workplaces and working patterns being introduced that focus on addressing the gender gaps in engineering and technology. At Coventry University, we have an EDI committee that has been steering several initiatives. Other great initiatives have been led by STEM Women and the Women in STEM campaigns, offering amazing resources and showcasing the different opportunities for women. My advice is to join societies and networks when you are studying at university and beyond. If you don't have a network at your organisation – set one up and be a catalyst for change. Don't allow individual differences (such as gender) to stop you from feeling equal and part of your team. Look past or embrace the differences and think of similarities you share with your colleagues? How do your skills complement each other? What do you add to the team?

<https://www.coventry.ac.uk/ame/>



Celebrating Women In Engineering

As International Women in Engineering Day is upon us, Siu Ho, Firmware Engineer at Casella, shares the challenges and opportunities for female engineers, her motivation for working in STEM and advice for women entering the field

What was your motivation for working in STEM?

Research has shown that children as young as six believe that girls aren't interested in computer science and engineering, contributing to a self-fulfilling proficiency that girls 'don't belong' in the field and to the gender gap in STEM education. As men tend to dominate the field, this can further discourage girls who have an absence of female role models. I was lucky to witness both my father and mother fixing things growing up, and they gave me hands-on experience too. Having the opportunity and encouragement to participate in less gender-stereotypical activities developed my passion for problem-solving and gave me the chance to imagine what a career in engineering could look like.

Why did you join Casella?

Casella is dedicated to cutting environmental and occupational health risks by developing equipment and technology that can improve and save workers' lives. The company's key specialisations include noise, vibration, boundary and air sampling monitoring, that can empower people, companies and communities to protect their health. I wanted to work for Casella because in doing so, I know that I'm helping to make the world a safer place. Casella has also invented a series of 'world firsts' including the first personal air sampling pump. Being at the forefront of innovation can

accelerate the improvement of workers' lives and I'm proud to be a part of that.

The sector is aiming for a target of 1.5 million women working in STEM by 2030. This would equate to 30% of the workforce being female.

How do you think we can move towards a more gender-balanced sector?

As a firmware engineer, my focus is on the 'T' in STEM. Software is everywhere and having the ability to create and play with it is a superpower. Today's young girls will be tomorrow's workforce and they should be given the opportunity to learn programming from an early age, so that they can use science and technology to develop their own solutions and understand what they can achieve. There are programmes available that can teach children coding in bite-sized chunks, helping to instil problem-solving abilities. There needs to be a greater effort to incorporate these types of programmes into the education system, so that more girls can be introduced to the world of STEM from an early age.

Why do you think there is such a small number of women pursuing STEM subjects and engineering as a career?

The glass ceiling effect can be a concern, however, the sector is moving in a positive direction, so I think we need to raise awareness of what women can achieve in the field. In the past, we used maps to navigate our journeys. Today, we can find the fastest, smoothest route straight from our smartphones. There needs to be a greater effort to highlight the positive aspects of the career because female engineers can change the world, one innovation at a time.

What are the biggest challenges female engineers face, and what advice would you give to others thinking about entering the field? At university, I was one of five women out of a

class of 70. In a male-dominated environment, it's important to remember that your voice matters. Express yourself and don't be afraid to share your opinions because they are just as important even if you're the only female voice in the room.

Can you tell us about any milestone moments in your career or notable mentors?

Studying at university and within research centres was vital for learning the technical aspects of the field, however, it wasn't until later in my career that I really developed my commercial awareness. Having an increased understanding of the way that businesses operate helped me to accelerate my career and I think there needs to be a greater focus on developing this within the standard curriculum.

What future innovations are on your working on at Casella?

I'm currently working on a new exposure monitoring device that can offer companies a more cost-effective method of making an exposure assessment, helping to identify workers at risk. It is important that the cost of monitoring devices is not a priority over employee health. Developing this new, lower-cost device will help to encourage more companies to protect their workforces and will join Casella's range of products designed to help combat occupational disorders across the world.



Why I'm Rooting For Female Engineers

Recent data shows that around 16.5% of engineers are women, a 2% growth since the INWED Impact Report 2021 was published. Whether it is an administrative, managerial or technical focus, statistics show that jobs in the engineering sector can often be overlooked by school leavers and women looking for a career change.

My name is Claire Watson and I'm the Director of Bury-based ductwork and fabrications company, Airmatic. This International Women In Engineering Day, I want to reflect on my own experiences, give food for thought and raise awareness in whatever way I can.

As women, there are still some obstacles in our way:

I have worked for Airmatic for over ten years, where we offer premium and bespoke environmental solutions for challenging workspaces through our ductwork and fabrications expertise. I became a Managing Director two years ago and now oversee the site's day-to-day activities, focusing on levelling up our digital marketing strategy.

In the not-so-distant past during my career in engineering, there were several occasions when I would pick up the phone to help with an enquiry, and the person would ask to speak with a man instead.

I would be lying if I didn't admit to feeling conflicted and confused when looking back on these exchanges, which have lessened over time, as I have stellar role models and cheerleaders of different genders that root for my success and have never insinuated that my gender is a weakness.

With the above in mind, it recently occurred to me that I have never received a CV from a female engineer for any openings at Airmatic. As the only woman that sits as an Executive Member in the Association Of Ductwork Contractors & Allied Services (ADCAS), this motivated me to think of ways to try and make a difference in our internal statistics and the

boards and partnerships that Airmatic is involved with.

We are successful in engineering roles:

In the 1970s, my auntie was the first draftswomen in her place of work. She became my inspiration to thrive in this industry from a young age. Her success was a constant reminder that challenging stereotypes in engineering were possible and that I could build a successful career as a woman in engineering.

Fast forward to 2022, and I'm the first woman to become a Managing Director at Airmatic. The role is rewarding, challenging and full of potential. After recently completing an Oxford University course in Leadership, my eyes are open to the many existing and future opportunities available to Airmatic.

With the help of our team, I steered the Airmatic brand's relaunch, built upon yesterday's expert knowledge to recruit tomorrow's forward-thinking talent, which was a massive milestone in my career.

Let's inspire the female talent of tomorrow:

As women in engineering, our voices should be loud enough for young women and those searching for a rewarding career to hear. Awareness days such as International Women in Engineering Day are a vital part of this, where we can come together to shine a light on our ability and innovation.

I have made an application to become a mentor through The Girls Network, a charity that supports young women through their all-important journey to maximise their ambitions and reach their career potential. By doing this, I hope to share my experiences and encourage those I speak with to consider engineering as a career path.

Alongside this, we will be hosting an Airmatic open day for local secondary schools in the Greater Manchester area on the 7th of July, aligning with UK National Manufacturing Day. The positive action in the local community means a great deal to us, and we hope that young women of school leaving age will take inspiration from our numerous activities and maybe even see their future potential.

We can thrive together:

My preparation for this International Women in Engineering Day has been an enlightening experience that has paved the way for my future efforts to support fellow women in the industry. I aim to introduce more female figures to ADCAS, where like-minded people of all genders can exchange ideas and grow together.

I'll be starting a recruitment search for the talent of tomorrow, liaising with Apprenticeship UK and other government schemes to raise awareness of career and growth opportunities within the industry.

I would love to expand my network and welcome any fellow women in engineering to get in touch so we can learn from each other and make a difference. Our voices are louder together, so let's do our part to increase the 16.5% statistic in time for International Woman In Engineering Day 2023.

About Airmatic:

Established in 1998 by Paul Haywood, Airmatic holds a key position in the industrial ventilation market sector.

In 2002, our founder saw an opportunity in a unique service offering; designing extraction systems for customers who work in challenging, industrial environments. Chris Taylor joined the founding team and established a robust manufacturing workshop to support this concept. His experience of fabrications for paper and wastewater industries contributed to the development of the Airmatic brand that exists today.

Airmatic now provides premium and bespoke environmental solutions for challenging workspaces, with Claire Watson and Rob Taylor leading the way to evolve a future-proof, dynamic brand.

Airmatic has secured a trusted, prominent position in the wider ductwork and fabrications market, collaborating with leading names in waste, chemicals, engineering, food, paper and manufacturing.

My Thoughts And Plans For This International Women In Engineering Day By Claire Watson - Managing Director at Airmatic



www.linkedin.com/in/clairewatsonairmatic

Act Now With Energy-Saving Technologies - Say Riventa

With electricity prices soaring, pump system optimisation experts Riventa have voiced their support to the Chairman of Isle's call for the water industry to make the most of innovative, energy-saving technology.

Speaking about the unavoidable climate crisis, Dr Piers Clark, Chairman of leading technical consultancy, Isle, stated that the water sector has significant potential to produce a positive impact. However, he added that the adoption of new energy-saving technologies could be accelerated.

Steve Barrett, Managing Director of Riventa, said: "As a business that can clearly demonstrate the efficiencies/inefficiencies of assets such as pumps, blowers and turbines,

we are very used to trials, to show, for example, just how much energy can be saved, but Dr Clark is correct in his analysis; there are technologies available now that could make an immediate impact on those fast-rising energy bills. In the extensive process treatment undertaken by water companies that largely gets taken for granted, we all know that large amounts of power are required; so, with world events causing such a crisis in electricity costs, the water industry has a timely opportunity to embrace technologies that will drastically reduce energy bills, and at the same time, protect assets, as well as drive down emissions and pollutions".

He added: "We have to say though that our own experience with water companies has been very positive, where clearly there is the will to look after assets on the journey to Carbon Net Zero. We all want change for the better – and faster. Given the unprecedented rise in

energy costs, the industry may have no choice other than to start rolling out key, decisive technologies that have proven deliverables".

Riventa's data-driven technology is currently in operation in eleven different countries worldwide. This includes a project in Paris, where at a key pumping station, use of its pump monitoring system and HydraNet software proved that the rescheduling of pumps to meet optimum performance, provides an immediate saving of 21%.

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Durable Pressure Reducing Valve Celebrates 14 Years In Service And Secures Contract For Ward Refurbishment

Cheltenham, UK – May 2022 – A pressure reducing valve from steam specialist TLV Euro Engineering has been installed at King's College Hospital in London and operating on a daily basis for nearly 14 years without an overhaul or spares fitted.

The COSPECT pressure reducing valve was originally specified by TLV Euro Engineering and installed by a contractor in 2008 for the King's College Hospital NHS Foundation Trust's Ruskin Wing, the tallest building in the Denmark Hill campus and one housing many of the hospital's neurological departments. Originally installed outside between two buildings at the site, the COSPECT valve has since been enclosed by further building works at the hospital campus.

Installed to reduce pressure in the main steam line from 8 bar to 2 bar, indirect steam is used for the hospital's heating batteries and domestic hot water purposes, so the COSPECT valve is operating 24 hours a day, 365 days a year.

It is estimated that the valve has achieved an average throughput of 950kg/h over its 14-year life, equivalent to 117,000 tonnes of steam. And in that time, the pressure reducing valve has never had any spares fitted, never been overhauled and has only occasionally had the operating pressures adjusted by the end user.

Commenting for TLV Euro Engineering, general manager Michael Povey says: "We were approached by Joji Abraham, the hospital's estate officer, who was so impressed with the durability and longevity of the valve that he had no hesitation in contacting us when seeking a quote for a new plate heat exchanger system for the refurbishment of the Trust's bone marrow ward.

"The age of the COSPECT was subsequently confirmed by our regional sales engineer during an initial site audit for the planned ward refurbishment project, with the programme since being fully commissioned and featuring two new plate heat exchangers from TLV Euro Engineering."

When the COSPECT was first introduced in 1985, TLV had been manufacturing steam traps and related steam products for over 30 years and was well aware of the limitations and inadequacies its customers were experiencing with conventional PRV's. Based on this feedback, TLV applied its fluid control technology to solve the many associated problems including fluctuations in primary and secondary pressures and valve hunting and vibration.

The renowned COSPECT, which many believe to be the ultimate pressure reducing valve (PRV), uniquely combines three components in a single valve – a piston-operated pressure reducing valve, a cyclonic effects separator and a free-float steam trap.

This innovation not only saves space but also simplifies system layout, piping and maintenance. The COSPECT also ensures that dry saturated steam is provided at constant pressure and temperature, which helps to improve product quality.

COSPECT's separator achieves 98% condensate separation efficiency and the strainer removes any remaining rust or scale. In addition, the condensate that is separated out is quickly removed through the built-in free float trap. All of which produces a noticeable improvement in the quality of the steam, and its heat conductivity. This can lead to increased valve life as well as increasing the service life and performance downstream equipment.

Maintenance is also simplified thanks to the COSPECT's modular construction and use of PTFE gaskets, which makes the unit quick and easy to remove, or to maintain inline.

For further information, call TLV Euro Engineering on +44 (0)1242 227223, email sales@tlv.co.uk or visit www.tlv.co.uk.



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Sulzer launches SALOMIX SSF150 agitator

Sulzer launches the latest addition to the SALOMIX agitator family, the SSF150. SALOMIX offers excellent performance in all industrial segments. The new size will be used mainly in large pulp mills, and typical applications will be storage towers, pulpers and bleaching towers. SSF150 strengthens Sulzer's position as the leading full-line equipment supplier to the pulp, paper, and board industry.

SALOMIX SSF side-mounted gear-driven agitators are used for mixing and agitating process liquids in demanding industrial applications, such as viscous liquids as well as fibrous and other slurries. The agitators ensure a homogenous mixing result, high process reliability and efficiency, low operating costs, and low environmental stress.

All SSF agitators have a consistent design and stainless steel construction, a flange-mounted motor, and an integrated, compact, and efficient one-stage gearbox. For SSF150, accessories such as support

legs, Dilco integrated dilution system, sealing water equipment, bearing unit monitoring, grease dispenser for the front bearing, and Sulzer Sense condition monitoring are available. The new SSF150 spans from 110 kW/150 hp up to 160 kW/200 hp. The agitators in the SSF range are ATEX approved. This means that they are also suitable for our customers in the chemical process industry.

The SALOMIX agitators are easy and fast to install, and the spare parts costs are low due to a high degree of standardization. The new, high-efficiency hydraulics (patent pending) provide substantial

savings in energy consumption. Thanks to the robust construction, the need for service is cut to a minimum, and the service-friendly design makes maintenance easy. Preventive maintenance can be optimized by using Sulzer Sense condition monitoring. All these features add up to a minimized total cost of ownership.

About Sulzer

Sulzer is a global leader in fluid engineering. We specialize in pumping, agitation, mixing, separation and purification technologies for fluids of all types. Our customers benefit from our commitment to innovation, performance and quality and from our responsive network of 180 world-class production facilities and service centers across the globe. Sulzer has been headquartered in Winterthur, Switzerland, since 1834. In 2021, our 13'800 employees delivered revenues of CHF 3.2 billion. Our shares are traded on the SIX Swiss Exchange (SIX: SUN).

The Flow Equipment division specializes in pumping solutions specifically engineered for the processes of our customers. We provide pumps, agitators, compressors, grinders and screens developed through intensive research and development in fluid dynamics and advanced materials. We are a market leader in pumping solutions for water, oil and gas, power, chemicals and most industrial segments.

www.sulzer.com





The World's First IIoT Pressure Gauge

We are pleased to announce the launch of the Ogaug, the World's first IIoT pressure gauge from Orion Instruments. Ogaug is a ground-breaking device that combines several instrumentation functions in a single device - an IIoT pressure gauge, switch, transmitter, and data logger.

The Industrial Internet of Things uses intelligent sensors and actuators to enhance manufacturing and industrial processes, increasing productivity and reducing downtime. The Ogaug is an ideal component for IIoT and I4.0 systems.

Featuring an integrated pressure measurement cell, a full coloured OLED display and four switching outputs, the Ogaug offers users all the advantages of a modern electronic pressure switch, gauge and a transmitter. The four switching points and switch-back points can be adjusted very simply and independently of one another using the onboard capacitive touch keypad.

The Ogaug's integrated IIoT wireless connectivity provides programming through a mobile app (Android/iOS) and a secure cloud-based dashboard that can be used to access multiple Ogaugs.

Key features of the Ogaug include

IIoT capability 2 configurable analogue output signals

Four independently configurable relays rated at 5A, 250VAC

Simple operation via key programming (via mobile app)
IP66 protection

Integrated pressure sensor with stainless steel membrane

It can be paired to mobile via an app to check live pressures.

Accuracy of 0.25% is standard (finer accuracies are available) and can be set to display values in any unit of measurement such as kN, kg, psi, full colour OLED informative alpha numeric with full LED display bar graph, and a single Ogaug can be used as a pressure gauge or a force gauge or a level gauge.

Three modes of operation are available:

1. Pressure Gauges:

Ogaugs are accurate enough for most applications. Applications for plain pressure gauges include test gauges for leakage testing or monitoring pump discharge pressure. With level mode, they can be used to measure the volume of liquid in a tank or its mass or capacity. With Force mode, it can be used to measure the force generated by hydraulic cylinders to be applied on the platen.

2. ΔP Delta-P differential pressure Gauges:

In many applications, it is important to measure and display the upstream and

downstream pressure and the differential pressure. Planar differential gauges provide these functions. All the subsequent logic can be built on the differential pressure, and the four inbuilt solid-state relays rated can be configured for triggering subsequent elements in the logic. They also can be easily mounted on a standard manifold valve vertically.

3. ΔP Delta-P differential pressure Gauges:

Differential pressure gauges are typically used for flow monitoring or checking the health of a filter and monitoring level in closed or open tanks. Ogaugs can be effectively used to trigger subsequent actions as they incorporate four independently configurable relays. Different colours used in the display sectors help in configuring the visual presentation on the gauge of the status of a filter. Two independent configurable analogue outputs can be wired into the distribution control system (DCS) or programmable logic controller (PLC) for various functions to be performed or logic to be programmed.

Steve Moorey, Managing Director of PVL, says, "the Ogaug is a game-changing multi-purpose and multi-function IIoT connected device for measuring pressure and much more. Local and remote monitoring is ideal for integration into existing and new Industry 4.0 systems."

*Please note that the Ogaug is not yet available for ordering, and the final version will be released soon.

www.pvl.co.uk

LEEAA Fulfils Training Ambition With New Courses This Year

Over the next six months, the Lifting Equipment Engineers Association (LEEAA) will be launching a new suite of training courses as part of the Association's Academy 2.0 Project. EUG (End User Guidance) will be the first course to arrive, on 7 July 2022 – Global Lifting Awareness Day #GLAD2022. EUG will be available via LEEAA's website, leeaint.com, as an open link accessible by all. Also on this day, the ILE (Introduction to Lifting Equipment) course will be available to LEEAA members in the 'Members area' of leeaint.com.

On 2 August LEEAA's all new Foundation Certificate training course – FOU (Global), will be available to all members on subscription. This course is available in English, Arabic, Bahasa, Brazilian Portuguese and Simplified Chinese. FOU (Australia) will also be introduced, which is essentially the same as FOU (Global) but with regional variations. Online examinations will be available for FOU Certificate training in all languages stated.

LEEAA's all new Lifting Accessories Diploma training course, LAC (Global), will be available to all members on subscription on 5 September. Replacing the previous 'Lifting Equipment General (LEG) Diploma', the course is available in English, Arabic, Bahasa, Brazilian Portuguese and Simplified Chinese. In addition there will be LAC (Australia), LAC (NZ) and LAC (USA) courses. These will replicate LAC (Global) but with regional variations.

With all courses available on LEEAA's new e-Learning platform, members can carry out their training when they want, how they want and for as long as they want. The platform is suitable for any device and has an offline study capability with auto-sync updates once back online. LEEAA has made a substantial investment into a technology upgrade in its Huntingdon training centre, making e-learning a real option for learners. Now equipped with high tech cameras, speakers, microphones and other equipment enabling, LEEAA staff can hold classes with delegates from across the world and deliver training via Zoom with maximum effectiveness.

Andrew Wright, Deputy CEO at LEEAA, said: "Five years ago, I delivered a presentation to the Associations' Annual General Meeting (AGM), which was held during the LiftEx 2017 exhibition in Telford. I spoke of constraints in the current LEEAA Academy, and a range of opportunities that LEEAA's Learning and Development team would be working to deliver for our membership in the future. This included a state-of-the-art learning management system, incorporating a new suite of Certificate and Diploma level training courses; training courses available in languages other than English; online examination and a digital TEAM card. These new courses listed here are fulfilling the goal laid out at the AGM. In addition our digital TEAM card is now being produced and holders will begin to receive their new cards shortly."

Incorporating new 'smart' technology, the new TEAM Card will enhance security, provide instantly verifiable data when required, and will be instantly updated by the LEEAA team when changes occur such as new validation dates, change of employment details, a new photograph and when new qualifications are added.

For further information, please contact academysupport@leeaint.com.

www.leeaint.com



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VCAT I, Stoke by Nayland Hotel, Essex - 26th - 29th Sep (H)
VCAT II, Stoke by Nayland Hotel, Essex - 17th Oct - 21st Oct (H)
VCAT III, Stoke by Nayland Hotel, Essex - 7th Nov - 11th Nov (H)

Ultrasound Analysis (ISO 18436-8)
UCAT I, Novotel, Worsley, Manchester - 4th Jul - 7th Jul
UCAT I, Novotel, Worsley, Manchester - 7th Nov - 10th Nov

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The Reliability Training Institute is a UK & Ireland accredited Training Organisation for both Mobius Institute (MIBOC) and The British Institute of Non-destructive Testing (BINDT). Professional training courses in Vibration Analysis, Ultrasound and Asset Reliability prepare students to take the ISO certified examination. We use the very latest computer-based simulations and animations to help make even the most complex subjects understandable. Study options include Onsite, Hotelbased, Hybrid, Virtual Instructor-led and Self-paced courses."

www.rms-reliability.com

Fulton Aftercare Portfolio Ensures Holistic Approach



Beyond its products, steam boiler and heat transfer specialist Fulton also offers numerous solutions from its aftercare division, a portfolio of services that can support its own installations and those from other boiler manufacturers.

While Fulton is renowned for its many gas-, oil- and electric-fired heat transfer solutions, its service doesn't just stop after a boiler is installed and commissioned. Many processing facilities depend on heat transfer equipment to maintain a regular supply of steam and, in many cases, during every hour of every day. So, whether a boiler needs start-up following a period of shutdown, aftermarket parts, repair or maintenance or your operators require training, it's essential that you use professionals that understand the often-complex capabilities of

your processing equipment.

Using an analogy, Fulton's aftercare and business development manager Jeff Byrne explains that, having invested in a new fleet of vehicles for its business, a company would be ill-advised to use unqualified mechanics or technicians to service them.

"In the automotive industry, using unskilled personnel would likely result in a manufacturer's warranty being invalidated," says Jeff. "But this is exactly what we're seeing at facilities where boiler operators are often given little, poor or no training and are therefore unqualified and certainly unprepared when a fault occurs, or regular maintenance is required. A poorly maintained and serviced boiler could result in failure, significant process downtime and potential revenue losses."

As well as offering boiler spares and repair service for all makes and types of heat transfer equipment, including those of other manufacturers, Fulton's aftercare portfolio also includes City & Guilds accredited boiler operator training to INDG436 and BG01-R2, technical boiler house risk assessments, boiler and water treatment service contracts, water treatment training to BG04 and EN12953, steam trap surveys, site mass balance assessments and system design, etc.

For further information on Fulton's aftercare solutions, visit www.fulton.co.uk, email aftercare@fulton.co.uk or call

+44 (0)117 972 3322.

ARE YOUR BOILER OPERATORS COMPLIANT?

BOILER MAINTENANCE

Our boiler maintenance training course is BG01R2- and INDG436-compliant and covers basic fault finding and routine maintenance in regard to manufacturers guidelines and practical 'hands on' training specific to your own equipment on site.

OPERATOR TRAINING

A one-day steam boiler operator course, accredited by globally-recognised City & Guilds, covers steam principles, regulations and standards with an emphasis on the principles of operation, safety and test equipment. It is assessed theoretically using a multiple choice question paper and practically with a written observation test.

WATER TREATMENT

Our water treatment training (ref. BG04) covers the need for and methods of pre-treatment, equipment calibration and testing, TDS control and blowdown and the safety and monitoring of the system. It also covers ways of identifying poor water conditions and the effect of these on boiler efficiency, longevity and overall system protection.



For further information on Fulton's industry-recognised, affordable and practical training courses that bridge the gap between straightforward 'toolbox' training and expensive courses costing thousands per employee, visit www.fulton.co.uk, email training@fulton.co.uk or call +44 (0)117 972 3322.

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“A reassuring feeling”

The World’s First Intelligent Lubricator

For Maintenance Manager Peter Hannappel from Westerwälder Elektro Osmose, everyday operations have become much simpler. With just a glance at his smartphone, he can see that all system-critical machines in the plant are currently being supplied correctly with grease...

And if a fault does occur, in the form of an empty grease cartridge or a clogged lubrication point

for example, his OPTIME app will tell him which machines and lubrication points require attention. Just one mill failure prevented with this new Schaeffler IoT solution saves

Westerwälder Elektro Osmose 47,000 euros and Maintenance Manager Peter Hannappel a whole lot of grief. So what exactly can the first intelligent lubricator OPTIME C1 do and what is its connection to the Schaeffler OPTIME app?

The basic concept

Sebastian Mergler, Service Solution Manager for Condition Monitoring at Schaeffler, reports

as follows on the idea behind OPTIME C1: “The new OPTIME C1 allows you to simplify, to substantial effect, the complex and time-consuming process of relubricating hundreds of lubrication points in a plant. For the most part, our smart lubricator renders the usual manual work involved in relubrication and the time-consuming inspection rounds superfluous. Imminent problems with the lubricant supply are detected and reported at an early stage. We use the app associated with our IoT condition monitoring system OPTIME to display the current status of all connected lubrication points. We have simply expanded it to incorporate the new smart lubricator functions and have thus been able to continue using the existing features and advantages of the app.”

The customer project

Westerwälder Elektro Osmose produces porcelain stoneware tiles, split tiles, wastewater pipes and chimney pipes. Maintenance personnel operate in a working environment where they are exposed to high levels of dust, radiating heat from furnaces and open-running drives. Until now, automatic lubricators were only used on system-critical machines. “However, these do not show whether there is a problem with the lubricant supply,” points out Peter Hannappel. “Regular



inspection rounds of our extensive facilities were necessary, which took up too much of our team's time," says the Maintenance Manager. In order to optimise lubrication management, Osmose turned to its service provider, Wälzlager-Vertrieb Wiesbaden (WVW), a certified Schaeffler distributor, who recommended a test run with a number of OPTIME C1 lubricators to gain initial experience with the system. The result was thoroughly positive: the Osmose maintenance team can now keep a constant eye on the lubricant supply for their system-critical components and the route-based inspection rounds that were previously required are now a thing of the past. The team saves time that can be used more appropriately elsewhere. Maintenance costs have reduced, faults have become less frequent and system availability has increased.

The Osmose maintenance team was particularly impressed by the extremely simple and rapid manner in which installation and commissioning was performed with the OPTIME app – just two minutes and four steps on the smartphone is all that is needed. The OPTIME C1 is scanned by NFC and the name of the machine and the lubrication point is assigned. The QR code on the lubricant cartridge is then read, followed by the specification of the time period and lubricant quantity for delivery to the lubrication point. The app subsequently calculates the setting that is to be performed on the adjusting wheel of the lubricant cartridge. As a final step, this setting is stored by NFC on OPTIME C1.

The system solution

Dozens, even hundreds of lubrication points on pumps, fans, compressors, assemblies,

conveyor drives, etc. can be fitted with OPTIME C1 in the minimum amount of time, allowing them to be deleted from the checklists. In addition to the communication module, OPTIME C1 is also equipped with a temperature sensor and a pump, which expands the lubricator's area of application. Only one gateway is required for the complete solution. The smart lubricators automatically connect to each other to form a mesh network. Relevant data, such as the number of days remaining until the next cartridge change, are transmitted to the OPTIME app over the mesh network via the gateway and cloud. However, the customer is entirely unaware of this. Just one glance at the smartphone or, alternatively, at a web-based dashboard, is sufficient for him to see all lubrication points with a fault in the lubricant supply, a critical fill level or an increased temperature, at any time and from anywhere.

By his own account, Peter Hannappel can easily conceive of expanding the number of OPTIME C1 lubricators into the three-digit range as a next step, particularly for the many machines and assemblies that have been relubricated manually to date. Furthermore, manual lubrication always carries the risk of over- or undersupply of lubricant and the use of an incorrect lubricant. Following this step, the assignment of personnel for the entire Osmose plant will then only be necessary for specific maintenance activities associated with lubrication, which the OPTIME app automatically displays, sorted by urgency. Sebastian Mergler emphasizes: "It is precisely this simplicity that is at the heart of all our developments; starting with our condition monitoring system OPTIME, for the purpose of simplifying the machine monitoring of

complete production sites, and now with OPTIME C1, the lubrication point monitoring system for entire plants. Our aim behind these developments is to make the world of maintenance simpler and more efficient."

Lean system solution for maintenance: Smartphone, gateway and lubricator OPTIME C1.



"When I open the app and see that everything is working, it's a reassuring feeling."

Peter Hannappel, Maintenance Manager at Westerwälder Elektro Osmose



"Up to 80% of all bearing failures can be attributed to inadequate lubrication and it is precisely this cause that we are solving with OPTIME C1 and the OPTIME app. All lubrication points, regardless of quantity and location, are clearly listed in the app, making it virtually impossible to overlook a lubrication issue."

Sebastian Mergler, Product Marketing I4.0 Service Solutions at Schaeffler



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OPTIME C1 combines the advantages of our automatic lubricator C1 with award-winning OPTIME technology: With its intuitive app, it simplifies the maintenance of your machines and eliminates the need for time-consuming manual work.



In addition to simplified lubrication, Schaeffler also has Lifetime Solutions and services for the supervision and assembly of its bearings and machine.

Keep your machines rolling.

www.schaeffler.co.uk/optime-c1

SCHAEFFLER

How The Right Bearings Can Drive Performance For Automotive

A single car has about 30,000 components, from major body structures down to individual bolts and screws. Every part has an integral role in keeping a car running, and this goes for bearings too. In a vehicle with a conventional engine, there will be on average around 100 to 150 bearings, many of which are key in reducing friction and energy expenditure and ensuring safe operation. In this article, Chris Johnson, managing director at specialist bearing supplier SMB Bearings explains the importance of automotive bearings

When considering the important parts of a car, bearings are often overlooked, but incorrect or faulty bearings can cause noise and friction, and even increase emissions and impact customer experience. Bearings are present in many vehicle components, and the type and size will depend on the requirement. Car parts and their functions are so varied that their bearing requirements differ significantly too. Several types of bearing are used depending on many factors, such as the radial load, the axial load and the operating condition.

Bearings are found throughout all vehicle types. From the air conditioning systems and water pumps to seat and mirror adjustment mechanisms, many of a car's important functions would be far less effective or even impossible without the use of bearings. Cars powered by internal combustion engines have significant amounts of moving parts making bearings are integral in the smooth running of components such as alternators, power steering and gearboxes. Demand for electric motor bearings is also growing as electric vehicles (EVs) become increasingly popular, with lighter, smaller bearings important in improving EV drive train efficiency.

Bearings used in automotive applications must withstand harsh conditions and long periods of stress under heavy loads, so material choice is of the utmost importance. Throttle valve bearings, for example, are key in regulating air flow, and are exposed to high vibration levels and extreme temperatures. For these applications, ball bearings and plain bearings have been traditionally used but sealed needle roller bearings are becoming increasingly popular due to the greater tolerance to vibration.

Longevity is also a consideration – bearings are often fitted for the life of the component, but faulty or worn bearings can produce noise or reduce efficiency and may need replacing at fixed intervals. Maintenance can be kept to a minimum by choosing a bearing guaranteed to last for the recommended service life. Buyers can look out for ISO/TS16949 compliant bearings to ensure that the products meet the internationally recognised quality management standard for the automotive industry.

Effective bearing performance doesn't just stop at the bearing itself – lubricant choice is also a factor and can alter effectiveness. Wide temperature greases are suitable for general automotive use due to the range of temperatures that automotive bearings are

exposed to. Dampening greases reduce noise and vibration in slow moving steering column bearings, though they are also widely used in other applications to minimise rattles and squeaks or give a quality feel. This type of grease can be found in seat guides, sunroofs, central consoles, dials, slides, switches, cup-holders, power mirrors and locking systems.

Each of the thousands of car parts is essential to performance, and bearings should not be overlooked. Automotive bearings are integral to safe and reliable vehicle function, and in improving efficiency in both conventional and electric motors. When choosing bearings, buyers should make bearing choices with quality in mind to guarantee optimum performance.

Contact:

sales@smbbearings.com.

visit <http://smbbearings.blogspot.co.uk/>



NSK Roller Guides Increase Uptime Of Blow Moulding Machines

A manufacturer of PET (polyethylene terephthalate) bottles frequently had to replace the linear guides on its blow moulding machines.

However, after switching to NSK's RA series roller guides, there have been no failures for over a year, producing annual cost savings in maintenance, spare parts, and downtime of €60,000. Dissatisfied with the number of linear guide failures on its blow moulding machines, the manufacturer invited NSK to investigate several faulty guides.

Expert analysis identified the cause to be end cap damage, which was occurring due to the combination of short stroke movements, short cycle times, frequent start-stop operation, and increased displacement force during start-up. Given this application profile and the damage that was taking place, NSK recommended that the plastics processor installed RA series roller guides.

These guides offer, among other things, very high load-carrying capacity and motion accuracy, extreme rigidity, smooth running, and long service life under conditions of short

cycle rates and high loads. A principal design feature of the RA series are its spacers, which perform a restraining function between each of the rollers.

These spacers reduce roller skew and ensure smooth running, as well as lower displacement force during start-up. The user followed the recommendation and, on a trial basis, equipped one of its blow moulding machines with NSK RA series roller guides. This machine ran for more than a year without any problems or breakdowns, reducing production downtime costs to zero.

NSK's cost savings analysis showed that the retrofit of this one machine alone resulted in a

saving of €59,500. In the light of this outcome, the PET bottle manufacturer had no hesitation in upgrading its other blow moulding machines.

www.nsk.com





New Sustainability in bearings brochure released by Brammer Buck & Hickman and SKF

Committed to Sustainability' is a new brochure produced by Brammer Buck & Hickman, the UK's leading supplier of industrial maintenance, repair and overhaul (MRO) products and services, in partnership with bearings manufacturer SKF. It is available to download now from Brammer Buck & Hickman's SKF bearings section on its website: uk.rubix.com/supplier/skf

At a time when the world is looking to limit its energy usage and impact on the climate, pressure is mounting on industry world-wide to reduce its overall environmental impact. Individual bearings may use relatively little energy, but are in such widespread use and are also one of the most frequently replaced components, that building sustainability in to the product and their usage matters.

The new Brammer Buck & Hickman 'Committed

to Sustainability' brochure provides customers with a guide to getting the most out of their bearings whilst having the least impact on the environment by applying the 3Rs waste hierarchy - Reduce, Reuse, Recycle. Examples of the 3RS include reducing the number of bearings you use by selecting good quality ones that are appropriate for the task at hand and ensure they are correctly fitted for product longevity; reuse bearings through SKF's remanufacturing process, and regenerate lubricants; heck to see if the bearings you use can be recycled at end of life.

But you can't apply sustainability to the product in isolation: it's important to take into account every aspect surrounding that product, including the manufacturer and its suppliers. The new 'Committed to Sustainability' brochure encompasses these different aspects, addressing responsible sourcing and demand chain, manufacturing environmental performance, sustainable building design and construction, and logistics. It also looks at how Brammer Buck & Hickman and SKF are

working towards net zero.

Commenting on the release of the new brochure, Alan Stewart, Brammer Buck & Hickman Bearing Product Manager – SKF Products, said: "Reducing wastage when it comes to bearings is not only good for the planet, but makes good business sense. A bearing that performs well over a long period of time is a bearing that won't slow your machinery down and won't lead to expensive unplanned maintenance and downtime. Applying the 3Rs to bearings is a good investment in the future, whichever way you look at it and we hope this new brochure will help explain why and how."

Brammer Buck & Hickman, a Rubix group company, is Europe's leading authorised bearings distributor, selling over 100 million bearings annually from the largest, most comprehensive bearings range and stock. Download the new bearings sustainability brochure at

uk.rubix.com/supplier/skf

Wolf's ATEX certified installed LED lighting is safe to use in hazardous areas

Wolf Safety's new range of powerful, ATEX certified LED installed lighting is ideal for indefinite use in hazardous areas, including potentially explosive atmospheres.

As the leading manufacturer of portable and temporary ATEX and IECEx certified hazardous area safety lighting, Wolf have been keeping people safe for more than 110 years.

The company's designers and production engineers have now used their knowledge and expertise to create a new range of highly effective LED installed lighting, which is safe to use in Zones 1 and 21 hazardous areas.

The range includes:

- Linear luminaires featuring revolutionary Directional Linear Optics (DLO) or standard Forward Facing Array LED configurations,

with battery back-up emergency versions also available;

- Floodlights with a market leading maximum light output of up to 25,932 lumens;
- Bulkhead lighting, also featuring DLO (with battery back-up emergency versions available);
- High bay lighting.

DLO directs light exactly where it's needed so it is ideal for use in specific, close-up workspaces, reducing glare to avoid people being blinded by the emitted light, while its superior colour definition facilitates safety critical hazardous area tasks.

Forward Facing Array (FFA) technology can be preferable for safely illuminating large hazardous areas which need wide, even and bright light coverage, where lights are mounted away from people or at heights where glare and intensity can't have an adverse effect on the working environment.

Says Miles Jackson, Wolf Safety's Sales and Marketing Director: "We know that users of Wolf products trust us to keep them safe, especially when they need to work in highly volatile atmospheres and other hazardous workplaces.

"All the values people expect from Wolf, seen in our portable and temporary lighting ranges, can now be found in our new installed lighting range, which we are proud to introduce."

- For detailed technical information visit: www.wolfsafety.com



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New models, upgrades and international approvals for the E2S GNEx and STEx Xenon and LED beacons

For applications requiring an effective Xenon strobe beacon with low current consumption, E2S has added the GNExB2X05 and STExB2X05 5 Joule (5W) Xenon strobe beacons to its GNEx corrosion resistant GRP and STEx stainless steel families. Ideal for all fire, gas and general signalling applications in hazardous locations, they are SIL1 compliant as standard and can meet SIL2 requirements using E2S's unique interface monitoring module. The upgraded new electronics for all GNExB2 and STExB2 Xenon strobe beacons gives the GNExB2X21 21 Joule and STExB2X21 21 Joule increased, and industry leading, light output of 1,115.57 Candela. All versions now

feature A4 316 Stainless Steel lens guards as standard.

The two families have also received additional international approvals. In addition to the new GNExB2X05 and STExB2X05 units, the GNExB2X10 10 Joule Xenon, GNExB2X15 15 Joule Xenon, STExB2X10 10 Joule Xenon, STExB2X15 15 Joule Xenon beacons and the GNExB2LD2 and STExB2LD2 multi-function LED beacons are now UL and cUL approved for Class I Zone 1 and Class I Div 2 environments. Selected 24VDC versions are SIL2 compliant.

Overall, the GNEx range is approved to IECEx, ATEX, Ex EAC and INMETRO for all Zone 1 applications and the STEx range is IECEx, ATEX, Ex EAC, INMETRO and DNV approved for

Zone 1, 2, 21 and 22 applications.

The GNEx and STEx ranges include Xenon and LED beacons, alarm sounders, PA loudspeakers, Ex d junction boxes and SIL2 compliant call points and push buttons, providing robust solutions for life safety system initiations and audible and visual notifications in the harshest of environments.





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Kline's Energy
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Apu Gosalia
Sustainability Expert
Adviser, Senator at
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Hire Industry United To Promote Wellbeing At Work

A new initiative has been launched by the hire industry to help tackle work-related stress levels.

Spearheaded by Asif Latief, Managing Director of Boels Rental, and Paul Gaze, CEO of Hire Association Europe and Event Hire Association (HAE EHA), #UnitedforMentalStrength is aimed at supporting mental wellbeing across the sector's workforce.

Stress, depression or anxiety accounts for a fifth of all work-related illness, while shocking statistics reveal that every single working day in the UK two construction workers take their own life. To address this unacceptable statistic the inaugural #UnitedForMentalStrength event at Boels Depot in Stoke-on-Trent set out a collaborative approach.

It is hoped that by working together all HAE EHA members and non-members will raise awareness of common mental health issues that affect the workforce and that can lead to a negative impact on an individual's wellbeing

at work. Boels MD, Asif Latief, says: "We all have common goals when it comes to mental strength. #UnitedforMentalStrength is only the start of the crusade to create momentum with further initiatives planned. By working collaboratively, we can make a difference by sharing our activities, our experiences and the challenges we have come up against when dealing with mental health issues."

Paul Gaze added: "In order to develop mental strength we need to understand mental health. Through being open minded and our willingness to address this issue it will have a long-term impact on our industry, the wider community and society as a whole. Talking about it helps remove any embarrassment or stigma. If we all work together to address this issue, then some real progress will be made."

Mental health problems in the construction sector are often due to the innate characteristics of the industry; it is a highly mobile industry with lots of casual workers, uncertain contracts, exacting timelines and

is quite macho in culture. Often people don't feel comfortable in raising personal issues and then muddle along until they can cope no longer.

HAE EHA, Boels and other hire companies already committed to #UnitedforMentalStrength have a range of initiatives aimed at promoting wellbeing for employees. The #UnitedForMentalStrength campaign is educating the hire industry to recognise the signs and symptoms of stress, anxiety and depression before they get out of hand, as well as giving businesses the tools and knowledge to assist employees with recovery.

Participating businesses include: HSS Hire, SHC Hire, Speedy Hire, Mr Plant Hire, Ardent Hire Solutions, One Stop Hire, Adlington Welding Supplies Ltd, Towergate Insurance Brokers, Sunbelt Rentals, Vp Brandon Hire Station, Salford Red Devils Foundation, inspHire and Garic.

For more information please visit: www.hae.org.uk or tel: 0121 380 4605. Or contact Boels Rental on 0161 442 7772.

British Compressed Air Society Appoints New Policy And Membership Officer

The British Compressed Air Society (BCAS) has appointed Jen Kershaw to the new position of Policy and Membership Officer.

Jen joins the society with more than a decade's experience in the compressed air industry gained in a range of customer support and sales roles and will be working directly with BCAS members to further enhance the range of services provided.

In the role, Jen will have two primary functions. One of these is to drive member engagement and satisfaction to ensure that value is continued to be delivered from membership of

the society. Jen's other role will be to work on policy to influence legislation and regulation at a strategic level in the new landscape, post Brexit.

She will work with other industry groups and BCAS partners to help influence and lobby for regulatory improvement, which will help drive change and ensure the compressed air industry continues to have a strong voice.

Commenting on the new position, Jen said:

"I have worked in the industry for many years, both directly for compressed air manufacturers including Ingersoll Rand and Atlas Copco and in distribution, including MultiAir UK & Ireland and more recently, Pennine Pneumatic Services.

"I have seen first-hand the benefits that membership of BCAS can bring, but many members are not aware of the full range of services that are available to them. This includes not only the technical and legislative advice and the specialist industry training that the society is renowned for, but a comprehensive range of business services too, including HR, health and safety, legal and tax support.

"As a BCAS member, you are part of a network of like-minded businesses and air users that want to be compliant with the latest legislation and operate safely and efficiently. Through face-to-face meetings and more regular feedback, I'm looking forward to speaking to more members directly to understand how the society can help their businesses to grow and succeed."

Vanda Jones, BCAS Executive Director added: "We are delighted to welcome Jen to the team. She brings a wealth of experience in customer-focused roles and will be a real asset in helping us to reach more members and help influence the future direction of the society.

"The feedback we receive will help to shape, formulate and revise UK directives and regulations, through to delivering specific member benefits and training courses that our members need to deliver their services safely and efficiently."



British Compressed Air Society Strengthens Distribution Support With Two New Board Appointments



The British Compressed Air Society (BCAS) has elected two new board directors, to further strengthen its representation of small to medium compressed air distributor members.

Wendy Hayward, Managing Director of Aircare Compressor Services Ltd and Dean Horn, Sales Director at Wearside Pneumatics Limited have now joined the team, with a remit to help enhance the range of services and support provide to distributors, which comprise over 50 per cent of the society's membership base.

Wendy Haywood

In 1994, Wendy joined Aircare Compressor Services Limited (Aircare), which at that time was a fledging family business set up by her father Brian in 1991. Then, only four-people strong and operating from Brian's family home, Aircare presented diversity, opportunity, and scope for Wendy in a new industry. Wendy became Managing Director of Aircare in 2010 and the business now operates from branches in Corby and Nottingham, with x employees.

Said Wendy:

I am excited by the challenge. Distribution is a thriving compressor sales channel in the UK, comprising many small to medium businesses that have built up impressive customer portfolios and technical knowledge over the years. However, as SMEs they face numerous challenges, such as staying abreast of legislative and regulatory change and ensuring staff are trained and developed continually - all while managing their own business and employees.

I hope that with my 30 years' experience in distribution I can bring first-hand experience of these challenges to the board and work with the team to further support our distributor members

Dean Horn

Dean has been working in the compressed air industry since 2006, holding numerous roles for Wearside Pneumatics, include office management, branch management and latterly as Sales Director.

Said Dean:

After more than 16 years in the industry, I felt it was time to give something back and am delighted to have this opportunity to help further support our distributor network.

BCAS has an excellent reputation for providing timely and accurate information, backed by industry-leading training to its members; helping them to stay compliant and safe. I am hoping to provide insight on how this information can be tailored further to support distributors, especially around the areas of energy-reduction and legislative compliance.

Vanda Jones, BCAS Executive Director concludes:

We send a warm welcome to Wendy and Dean and congratulate them on their new appointments.

The British Compressed Air Society is committed to helping compressed air users operate more efficiently, compliantly and safely, so it is essential that we communicate effectively with all our members.

From providing guidance on mitigating health and safety risks, to implementing compressed air energy saving initiatives during a time of unprecedented price increases, our distribution members have a key role to play in shaping the future of our industry. We look forward to working with Wendy and Dean to better support our members in these challenging times.



Saving Energy And Protecting The Environment With The Right Compressed Air Solution

With Europe experiencing soaring energy prices, and compressed air

accountable for between 12 to as much as 40 per cent of all the industrial energy consumed, many businesses are considering what steps they can take to minimise costs and improve the efficiency of their operations. Now is an opportune moment for energy-intensive organisations to take advantage of heat recovery, oil-free technology and digital analytics, says one of the industrial compressed air leaders, CompAir.

In the first quarter of 2022, short-term gas prices on the largest European exchange were five times higher than their 2021 average, and future markets are pricing European gas at up to three times its 2021 levels for at least the next three years. However, CompAir is advising compressed air users that action can be taken now to help protect their investments for the future.

Here are some top tips that CompAir recommends, with advice on the company's latest compressed air technologies, to help lower energy costs and optimise efficiency levels.

Opt for oil-free screw compressors While most production-sensitive environments, such as those in the food and beverage or pharmaceutical sectors, will opt for an oil-free compressor, many other businesses would benefit from the efficiencies that an oil-free model can deliver. In many cases, whole life costs are reduced, with businesses able to save on the cost of oil replacement, and there's no requirement for additional products such as oil separators.

CompAir offers a wide range of oil-free compressor technologies, including screw and piston machines. Its advanced Ultima compressor operates completely oil-free, with the cooling of components achieved via a closed water circuit.

Each airend is driven individually by a variable speed, permanent magnet synchronous motor, offering exceptional levels of efficiency versus traditional oil-free technology.

Take advantage of the latest oil-lubricated screw compressor technology

However, for those seeking an upgrade to an oil-lubricated system plus air treatment, the latest oil-lubricated technologies have been developed to optimise sustainability throughout the compressor's lifecycle.

CompAir's FourCore range combines best-in-class compressed air efficiency with a small footprint and sustainable design for eco-conscious businesses.

For example, when carbon emissions from a new 160 kW FourCore model are compared with a traditional compressor, running for 8,000 hours a year, the FourCore system reduces the equivalent greenhouse gas emissions of 32 passenger cars, or 371,800 miles driven by a passenger car, over the course of one year. This is the same amount of carbon sequestered by 181 acres of forest.

Furthermore, when compared with a conventional two-stage compressor, the new 200 kW model uses 22 per cent less materials and can help cut waste by up to 19 per cent.

And when compared with previous single-stage compressors in this size range from CompAir, the new models are up to 8 per cent more efficient, offering a best-in-class oil-lubricated solution for decision makers.

Treat air correctly

Modern production systems and processes demand compressed air of ever-increasing purity. The proper specification of downstream equipment will not only further improve the

quality and efficiency of a compressed air system but reduce its environmental impact too.

CompAir offers a wide range of compressed air treatment solutions including filtration, refrigeration and absorption dryers and condensate management systems. High-quality consumables, such as filter elements with a long service life, ensure low component wear and consistently low differential pressure.

Heat recovery

Meanwhile, taking advantage of measures such as heat recovery represents a considerable opportunity to lower energy costs, by recycling excess heat and using it to a site's advantage. With typically only 10 per cent of the electrical energy input being converted into compressed air, the remaining 90 per cent is generally wasted as heat. By fitting a heat recovery unit to a compressor, the system can 'recapture' energy lost during the compression process and use it for other useful purposes. For example, it can supplement the electricity, gas or oil needed to generate hot water for washrooms or process water. Alternatively, it can be transferred as direct warm air into a workspace or facility.

CompAir offers multiple turnkey heat-recovery solutions for its oil-free and oil-lubricated screw compressors, both factory fitted and retrofittable. This allows for easy 'plug-and-play' installation and an immediate realisation of energy and cost savings.

Drive improvements with digital insights

The Internet of Things and data analytics can help operators to understand how efficiently a compressor is running, and whether any improvements can be made. These insights will not only help highlight any potential issues now, but also enable operators to forecast any potential future problems, based

on deteriorating machine performance.

Predictive maintenance models based on real-time data can be established to help reduce energy consumption, improve process efficiencies and limit any risks. Connectivity continues to be a key focus in the CompAir portfolio, with the company's iConn service offering intelligent insights that help operators monitor a system's performance in both real-time and remotely.

Accessible from smartphones and tablets, the browser-based system ensures users can proactively manage any potential issues that arise at all times, reducing associated downtime and guaranteeing the system is performing as required.

Guaranteed assurance with service agreements

To help companies avoid unplanned and unbudgeted downtime, as well as production interruptions, CompAir has launched a series of new Assure service agreements. Available to all compressed air users, no matter the manufacturer or age of the equipment, these help businesses optimise operational efficiencies, mitigate risks, and streamline working practices by ensuring customers only need to deal with one compressed air supplier.

From the entry level, AssurePLAN, which covers the timely replacement of consumable components such as oil and air filters, separators, and oil, with a 12-month warranty on these assets, to the most comprehensive, AssureCOMPLETE, which ensures all operational risk for a compressed air system is transferred to CompAir, a service agreement is available to meet a business' exact needs.

In addition, these agreements include genuine spare parts. While a non-genuine part may be cheaper, it can compromise the compressed air investment in the long run and end up

costing a business more. In contrast, genuine parts are manufactured to meet the same high standards as the compressors they are intended for.

Don't leak profit

It's essential to manage pipework leaks. Air leaks are the leading cause of energy loss in industrial air systems, wasting as much as 20 to 30 per cent of the system's output. There are many reasons for leaks in a compressed air system, including shut-off valves and manual condensate valves being left open, as well as leaking hoses, couplings, pipes, flanges and pipe joints.

With a leak as small as 3mm potentially costing over €800 in wasted energy, one solution is a simple leak detection survey, which can identify any problems quickly so remedial action can be taken. Alternatively, a flow meter is a reliable means of evaluating compressed air generation and downstream inefficiency costs. Indeed, finding and repairing one 3mm leak could potentially save enough money to cover the cost of purchasing one.

Undertake an energy audit

Whether it's buying a new compressor or upgrading an existing system, a sensible starting point is to always undertake a full site energy audit. This will establish current compressed air usage and costs, help identify air leaks to determine where energy is being lost and where cost savings could be made, and test air quality to ensure the compressed air generated meets the right standards. Not only does an energy audit help lower a business' total cost of ownership, it also helps reduce environmental impact too.

To find out more, please visit <https://www.compair.com/en-gb/sustainable-compressed-air>

Airbench Releases New Modular Mist Filter System

AirBench Ltd have released an upgraded range of OMF mist filtration units to strengthen their range of coolant mist filters.

The new OMF models are based on a modular design allowing multiple variants and filtration systems to be assembled to suit customers machining processes. Available in nominal airflow capacities ranging from 500m³/h up to 4000m³/h, or 8000m³/h using our manifold system, the latest OMF range also benefits from an upgraded door seal system and improved filter clamping to reduce maintenance requirements.

The modular approach allows for the addition of secondary filtration stages where applications demand; for example, the addition of prefilter stages to reduce main filter loading on

processes with heavy coolant contamination. OMF mist filtration units are designed to capture coolant mist from machining processes; and are usually installed either to larger machine tools, or as central systems servicing multiple machines to minimise maintenance and operator involvement.

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General Motors Corporation Trials The LOBO Advanced Platform System

The Chevrolet Blazer manufacturing plant has several production lines that require maintenance. Like many tasks of this nature, access to the awkward area is needed 24 hours, seven days a week. Maintenance areas exist directly above the plant shop conveyor systems, and production downtime must be kept to a minimum. Work at height maintenance processes must be controlled and fall under strict OSHA compliance regulations.

The fast no tools assembly features of the LOBO System are a perfect fit - hence the trial. Moreover, LOBO can be configured quickly and efficiently into any shape or size. Engineers are product trained by LOBO, which adheres to OSHA and delegates are tested at the end to maximise safe use. GM Wentzville in St Louis, Missouri, has been a successful LOBO customer since 2015, so the concept is not new. LOBO was used for general maintenance activities in and around pipework, robotics, and cabling throughout the production lines. Boyd Wells, UAW Safety Director at GM Wentzville, Missouri, said, "Thank you for coming to our plant and giving us the training to use the LOBO system properly. We have used your system in various parts of our plant where aerial lifts cannot access. The different configurations and ease of use are what makes your system so appealing.

I found that our skilled trades workers like the system because it gets them to places they otherwise could not get to and provides them with a sturdy platform to work from. The cost of your system is another appealing part due to the cost of renting traditional scaffolding. I would say we have recovered the cost of your system versus what we would have had to pay to rent scaffolding. The updated training you gave us further enlightened us on the many uses and new ideas on what can be done

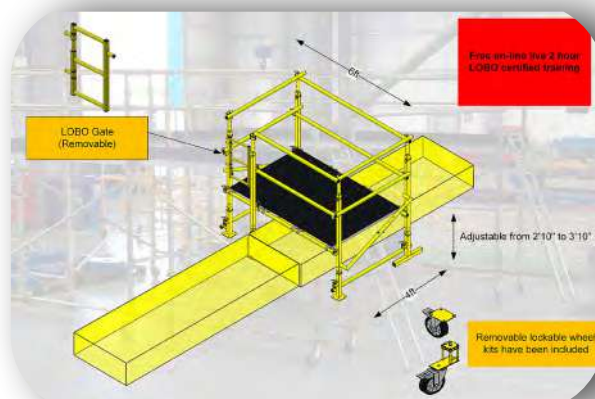
with the LOBO system. I know we will use the system more often now that you have opened our eyes to the different uses.

In addition, your training covered the aspects of the OSHA standard and GM's policies on guard railing, work platforms and accessing these areas. We have implemented an inspection process now and will be able to train our employees further.

With safety being the overriding priority within GM, I know your system should be in every GM plant. Because I know without it, our workers would be working harder and not smarter".

LOBO Systems CEO Robert Bokros says, "LOBO is a game-changer; it will reduce costs and reliance on outsourced scaffolding contractors and will increase safety with our detailed training process".

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MARL, based in Ulverston, Cumbria, designs and manufactures long-lasting, robust products which have proved their worth over more than four decades. The 677 series is the panel indicator of choice for American company Asphalt Zipper® in its road grinding and milling machines. They also endure rain, sun, grease and impacts, and keep on working. Using the 677 series LEDs was a great decision and we haven't looked back."

An Asphalt Zipper spokesperson said: "We needed LEDs to indicate the state of functions on our machine. For more information or to enquire about our products, contact our team:

Mounting through an 8.1mm hole, the 677 series is sealed to IP67 - weatherproof, vandal-resistant, and durable to shock and vibration, providing a reliable status indication solution. After looking around, we found MARL's 677 series. These LEDs hold up really well in our high vibration application. They are easy to see

T 01229 484625
E graham.round@marl.co.uk



CLPA - a partner in advancing industry-wide TSN conformance

The CC-Link Partner Association (CLPA) has announced that it is actively engaged with the Avnu Alliance, ODVA, OPC Foundation (OPCF) and PROFIBUS & PROFINET International (PI) as part of the TSN Industrial Automation Conformance Collaboration (TIACC). The organisations will work together to develop a unified conformance test plan for automation devices that leverage Time-Sensitive Networking (TSN), driving standardisation, interoperability and interconnectivity.

Bringing together key global industrial network and communications specialists, the TIACC is an industry-wide initiative aimed at developing a solution for TSN conformance. The CLPA, collectively with all other leading organisations, will develop and agree a single common conformance test plan to certify TSN-compatible products, in line with the IEC/IEEE 60802 TSN profile for Industrial Automation.

The resulting methodology and practices will be released for use to the entire industrial automation ecosystem. By doing so, the TIACC partners will promote the alignment of TSN-compatible solutions from different vendors, which is essential for the development of converged industrial automation networks.

The CLPA's commitment to TIACC is in line with the organisation's overarching strategy to drive the easy integration and openness of networks and devices from multiple vendors. In effect, the CLPA has a history of successful collaborations with other TIACC members, such as OPCF and PI, delivering interoperability and companion specifications

aimed at maximising transparency between the different protocols available. To further support interoperability, the CLPA also continuously invests in its standardised, global network of conformance testing facilities. These are engaged in the evaluation of devices that use CC-Link IE TSN, the first open industrial gigabit Ethernet with TSN functions. Using this real-world experience, and as part of TIACC, the association can contribute to the creation of robust practices to ensure TSN conformance.

John Browett, General Manager at CLPA Europe, comments: "The creation of the Connected Industries of the future requires different systems and devices to communicate in order to deliver the necessary process transparency required. The belief in this principle is deeply rooted in the CLPA's ethos and at the core of why the organisation was founded. This is why we are delighted to be part of the TIACC and look forward to supporting the creation of a unified, common test plan for TSN-compatible products. By doing so, we can help further boost the adoption of futureproof technologies for smart manufacturing."

Image captions:

Image 1: The CC-Link Partner Association (CLPA) is actively engaged with the Avnu Alliance, ODVA, OPC Foundation (OPCF) and PROFIBUS & PROFINET International (PI) as part of the TSN Industrial Automation Conformance Collaboration (TIACC).

About The CC-Link Partner Association (CLPA)
The CLPA is an international organisation founded in 2000 dedicated to the technical development and promotion of the CC-Link family of open automation networks. The CLPA's key technology is CC-Link IE TSN, the world's first open industrial Ethernet to combine gigabit bandwidth with Time Sensitive Networking (TSN), making it the leading solution for Industry 4.0 applications. Currently the CLPA has almost 3,800 member companies worldwide, and more than 2,000 compatible products available from over 300 manufacturers. Over 26 million devices using CLPA technology are in use worldwide.

Further Information:

Website: eu.cc-link.org

LinkedIn: <https://www.linkedin.com/company/cc-link-partner-association-europe/>

Twitter: twitter.com/cc_linknews

YouTube: youtube.com/user/CLPAEurope

Demonstrating new technologies – with ROBOTRAX from KABELSCHLEPP Metool

By using the ROBOTRAX cable carrier system in combination with the innovative PBU pull back unit from KABELSCHLEPP Metool, automation expert KEBA Industrial Automation was able to set up a realistic technology demonstrator. Reliable cable guiding was a key element of success.

The international automation expert for machine-integrated robots, KEBA Industrial Automation,

uses its latest demonstrator to highlight the opportunities of creating a digital twin of an industrial robot. To illustrate the corresponding applications, an industrial robot with a versatile tool simulator was set up. Just as in practical application, a multicore cable had to move along with this tool simulator, reliably and safely guided in the robot work envelope even at the highest travel speeds.

KABELSCHLEPP Metool provided support for planning and configuration of the ROBOTRAX cable carrier, which is flexible in three dimensions and was optimized specifically for use on industrial robots. Reliable cable guiding in different robot positions and at high speeds was achieved with the PBU pull back unit. The Austrian distributor for KABELSCHLEPP Metool provided support for the practical optimization.

“The cable carrier system impressed us with its easy installation and versatile fastening options,” explains Michael Garstenauer, Product Manager Robotics at KEBA Industrial

Automation. “In combination with the pull back unit, reliable pretension is ensured along the complete demonstration paths.” The dreaded knocking of the energy chain against the robot is prevented even at the highest speeds while retaining full freedom of movement. The result is a thoroughly reliable overall solution that is suitable for long-term use.

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FastMaint CMMS Software v.11 for Utilities, Manufacturing Plants & Facilities

SMGlobal has released FastMaint CMMS software v.11. It is a computerized maintenance management software program for equipment and facilities maintenance. Maintenance managers can use FastMaint to schedule and manage preventive maintenance as well as corrective maintenance work. They can send work orders to the maintenance staff and receive their feedback. Managers can track the progress of all outstanding and completed jobs. They can use FastMaint for on-site maintenance programs or field service management. New features in version 11 include a web API to retrieve and update information via third party apps, more work order scheduling options and user interface improvements. Since many organizations are struggling in the current situation, the previously retired Basic edition has been brought back. The Basic edition is for sites with fewer assets to manage. It has a price to suit

smaller budgets.

Software editions:

The CMMS software is available in five editions. This allows customers to upgrade the software as their companies grow in size and complexity.

The Basic and Standard editions are suited for a single user managing the maintenance process. The Standard edition adds purchase management and can handle more assets than the Basic edition.

The Professional and Web editions allow multiple users to use the system at the same time. Cloud edition is the Web edition hosted by SMGlobal. Unlike the other editions, it does not need to be installed in the customer's site.

Pricing:

A single-user license for the Basic edition is US \$500. Standard edition is US \$1,200.

The Professional and Web editions start at US \$3,000. These prices are for downloaded software that customers install on their own systems and are not monthly subscriptions.

Requirements:

The Basic, Standard, and Professional editions need Microsoft Windows 7 or later. The Web edition needs Microsoft Windows 2008 or later for the server.

The Web and Cloud editions allow client access using a Desktop, Laptop, Netbook, Tablet or Smart Phone with a HTML 5 compliant browser such as Microsoft Edge, Google Chrome, Mozilla FireFox or Apple Safari.

For more information or to get a trial, contact SMGlobal Inc., 5448 Apex Peakway #308, Apex, NC 27502 USA Phone: (919) 647-9440 Email: sales@smglobal.com Website: www.smglobal.com

Fluke Reliability's eMaint CMMS software added to RS Components' maintenance solutions to enhance reliability workflows for customers

The award-winning computerised maintenance management system software from Fluke Reliability will help RS Components' customers predict failures, eliminate downtime, and improve reliability. Fluke Reliability, a Fluke Corporate company and provider of simplified connected reliability solutions for people who keep the world up and running, has today announced a partnership with RS Components (RS) to provide eMaint computerised maintenance management system (CMMS) software to RS' customers. By adding eMaint, RS is providing a world-class CMMS solution that helps its customers better manage work orders, predictive maintenance schedules, and parts inventory to improve reliability.

"Fluke Reliability is excited to team up with RS to expand its cutting-edge maintenance engineering services with eMaint's award-winning CMMS software," said Fluke Reliability

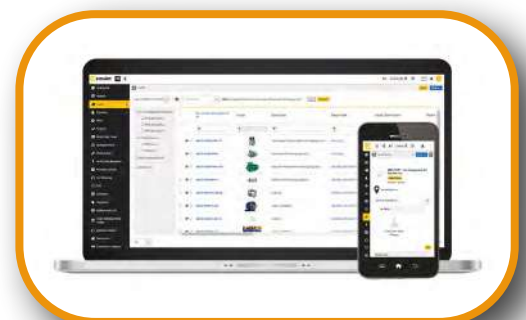
Solutions President Ankush Malhotra. "RS delivers robust maintenance solutions and expert knowledge to its customers, and we are pleased to have eMaint part of the RS offering." Richard Jeffers, Director of Industrial Digital Solutions, RS Components, said: "At RS, we have always strived to bring best-in-class maintenance engineering services and solutions to our customers so they can keep their operations running as efficiently as possible. eMaint not only brings world-class reliability solutions, but also world class customer service to help our industrial customers succeed."

eMaint CMMS enables maintenance professionals to manage work orders and requests, preventive maintenance, purchasing and inventory control, planning and scheduling, asset history, cost tracking, condition monitoring, and document storage, as well as create robust reports. The software saves companies valuable time and money

by improving the organisation, planning, and optimisation of maintenance activities.

eMaint was one of the first providers of CMMS to offer a completely web-based software as a service (SaaS) model. Since 1986, the company has leveraged continuous software updates combined with exceptional support to expand its global footprint. The company's diverse global client base consists of small, mid-sized and enterprise organisations in industries such as manufacturing, facilities, services, fleet, energy, packaging, government and education.

For more information on RS, please visit the website at <https://uk.rs-online.com/web/>.



RealWear Acquires Genba AI, Marking RealWear's Shift to Becoming a Platform-First Business, Adds to Series C Funding By \$1.5m



Genba Seamlessly Captures Critical Knowledge, Enables Workflows for Industrial Maintenance Technicians Using Speech-to-Text, Natural Language Processing (NLP)

RealWear, the world's leading provider of assisted reality solutions for frontline industrial workers, acquired

Genba AI and received \$1.5M of additional investment from Fortive Corporation. The move opens new industrial channels for RealWear to serve the industrial manufacturing maintenance market with cutting-edge voice-enabled software that captures critical knowledge for maintenance technicians and supervisors and, along with the current RealWear partner ecosystem, helps drive its assisted intelligence vision further, including the delivery of contextual data, tools, software and metrics to aid frontline operations and IT.

"In last week's funding announcement, we mentioned more game-changing human-centric tech to come," said Rama Oruganti, Chief Product Officer, RealWear. "Today we're bringing our first ever SaaS offering to market for the frontline, helping to move us toward a fully platform-centric business. Helping customers easily capture data and surface insights through contextual tools provided

by RealWear and partners increases worker productivity and our customers' bottom line." The work of a typical industrial maintenance technician covers a wide range of activities including creating and completing work orders, capturing notes, logging parts and charging for labor, all of which must be stored in the business's CMMS (Computerized Maintenance Management System).

CMMSs are not, however, designed to facilitate frontline workflows, which can result in incomplete data and additional unplanned downtime if not paired with a solution such as what Genba offers. According to Genba, today's Industrial Maintenance Technicians spend 30 minutes each shift completing paperwork yet self-report that up to 75% of urgent issues, and even less critical tribal knowledge, goes unreported.

Using Genba's specially trained speech-to-text technology, the company solves the key pain point for those techs required to enter data once a task is complete or as a shift ends. Genba's customers are seeing critical data and knowledge capture increase up to three-fold, some within a week of installation, improving overall lifetime and uptime of an asset.

Seattle-based Genba was co-founded by two former Fluke (a wholly owned subsidiary of Fortive) employees in March 2021 and was backed by a partnership Fortive formed with Pioneer Square Labs (PSL) as part of its overall innovation efforts that grows and nurtures early-stage companies.

"As part of this announcement we are thrilled with the level of talent we're gaining at RealWear," continued Oruganti. "The Genba team consists of Tier 1 expertise in the speech, NLP, and industrial workflow spaces. We're very excited to be working with Fluke on a co-selling program to market the Genba solutions to Fluke's eMaint industrial customers."

Genba's first two products to market are an intelligent, voice-enabled workflow mobile application for Industrial Maintenance Technicians and Industrial Maintenance Analytics for Maintenance Managers, both of which are fully integrated into Fluke's CMMS product, eMaint.

For more information, visit

www.realwear.com

Ultimo partners with INOTEAM to help mid-sized companies in France extract new value from their assets

Ultimo and INOTEAM join forces to help asset-intensive organisations in the French market benefit from Ultimo's Enterprise Asset Management (EAM) solution. Based in France, INOTEAM is a service provider and a system integrator specialising in EAM and APM (Asset Performance Management) software. Ultimo is the leading EAM platform in Europe, serving more than 2,200 customers in manufacturing, healthcare, logistics, infrastructure and utilities. The new partnership allows INOTEAM to add Ultimo's EAM Cloud Platform to its service portfolio, enabling it to provide customers with a user-friendly and flexible EAM solution that is quick and easy to implement.

For years, INOTEAM's specialist consultants have guided customers in finding a strategic way to implement EAM and APM solutions. With a wealth of expertise in different best-in-class solutions, they are dedicated to helping find the solution that makes their customer's project a success. The partnership helps INOTEAM better serve its mid-market

customers through an EAM solution tailored to their unique needs. It will also accelerate Ultimo's growth and presence in France, helping bring its solutions to new customers. Patrick Navarro, CEO of INOTEAM, commented: "Ultimo and INOTEAM have come together through our network of customers and partners. We share not only a vision for customer requirements but also an entrepreneurial spirit and a pragmatic approach to business; our partnership made immediate sense to both companies. This is also true on the operations level – we work as one team to make our customers successful, and we have already signed up our first joint customers."

Marcel Leeftang, Head of Channel Sales at Ultimo, said: "As part of our international growth ambitions, I am very happy that we are connected with one of the leading providers in our market in France. We are convinced that the partnership will benefit mid-sized asset-intensive companies in the country. Our technology partnership with AVEVA also plays an important role, enabling us to connect Ultimo with AVEVA's APM platforms. This allows us to offer our customers an

integrated solution that covers the best of both worlds. Leveraging EAM and APM strongly contributes to the customer's road to EAM maturity, resulting in further cost savings, higher uptime and a safer workplace. As a joint AVEVA partner, INOTEAM is now able to bring these benefits to their customers."

About Ultimo Software Solutions

Ultimo Software Solutions supplies the number one Enterprise Asset Management (EAM) cloud platform 'Ultimo'. The software is used by more than 2,200 customers globally in manufacturing, healthcare, logistics, infrastructure and utilities. It offers customers in these sectors many advantages such as increased uptime, the management of costs, increased equipment lifespan, ease of adherence to laws and regulations and the assurance of a safe working environment. Ultimo provides these advantages with an unparalleled return on investment due to fast implementation processes, seamless integrations and self-service application management. The company was formed in 1988 and has offices in the Netherlands, Belgium, Germany and the UK.

www.ultimo.com



New Report Acknowledges Ultimo As A Leader In Enterprise Asset Management Technology

Specialist in Enterprise Asset Management (EAM) software, Ultimo has been successful in gaining even further industry recognition.

The company is one of those highlighted in a new report by Verdantix, which conducts research and provides insight in relation to digital strategies.

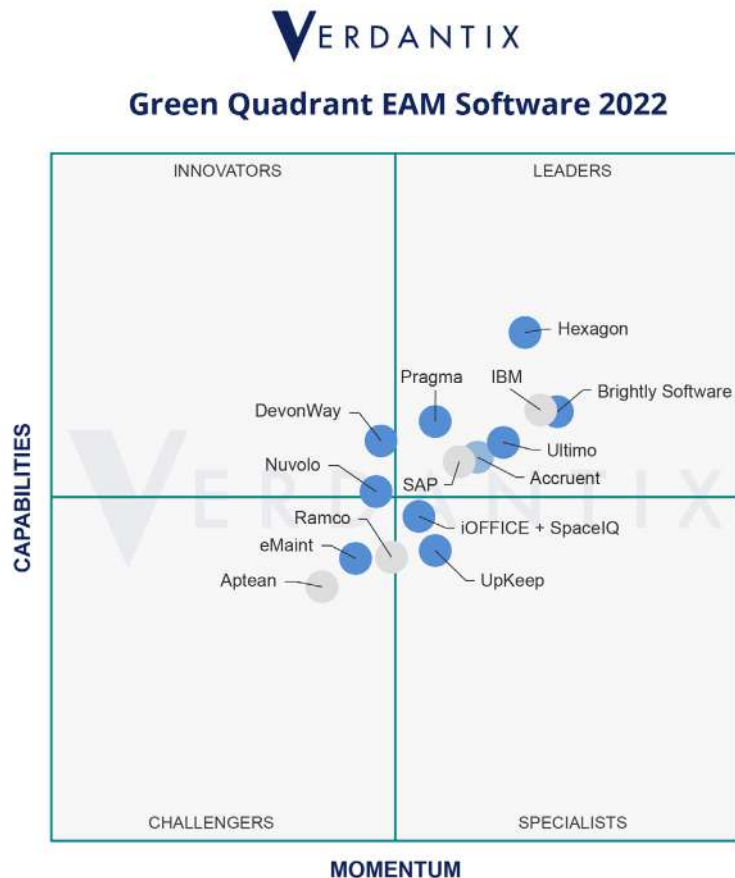
Drawing on input from hundreds of highly experienced professionals surveyed, the Verdantix report, entitled 'Green Quadrant: Enterprise Asset Management Software 2022' provides a comprehensive, highly detailed comparison of the main software vendors currently serving the EAM market. It includes profiles of each of these vendors and describes the different software solutions they offer.

According to the report, the global EAM software market is being "driven by a new focus on cost savings, maintenance strategy digitization programmes, digital system amalgamation and sustainability." It goes on to say that EAM software spend is "set to grow, with providers looking to differentiate through increased mobile and wearable functionality, rapid implementations, smart integrations and analytics for predictive maintenance strategies."

"This is another powerful endorsement of Ultimo and what we are achieving within the EAM software sector," states Ewout Noordermeer, Chief Marketing Officer, Ultimo. "Having an advanced EAM solution is now fundamental to modern organizations. It helps break information silos within departments to enable better knowledge-sharing, helping businesses move towards more productive, safe, and sustainable asset management strategies."

"The report published by Verdantix places us at the forefront of EAM innovation. This, along with the other accolades we've received over the last year, will motivate us to further develop our offering to ensure it continues to help asset-heavy organisations optimise maintenance, improve performance and unlock new levels of operational efficiency," he concludes.

To find out more, visit www.ultimo.com.



Source: Green Quadrant: EAM Software 2022
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Fluke Tool Helps Medical Facility Improve Safety And Save Energy With Innovative Maintenance Program

Eindhoven, Netherlands. 20 June 2022: A pioneering application of the Fluke™ ii900 Industrial Acoustic Imager has enabled a world leader in patient care to improve safety levels across multiple hospital sites while also being able to meet its own demanding sustainability targets.

The Mediclinic Group, an international hospital group with operations in South Africa, Namibia, Switzerland, and the United Arab Emirates, is focused on continually improving patient outcomes. It is also committed to maximising safety levels in all its hospitals while improving sustainability to ensure a positive impact on the environment.

When a specialist thermography consultancy, KN Thermography, was called in to inspect the thermal efficiency of a South African Mediclinic hospital, it was using the Fluke ii900 Industrial Acoustic Imager. Discussions between the thermography company and Mediclinic Southern Africa's Sustainability Manager Petrus Swanepoel quickly identified the possibility of using the equipment to detect leaks of medical gases within the hospital.

Reducing waste

Mediclinic was aware that by fixing leaks in

the distribution of oxygen and nitrous oxide across all their hospitals it could not only make significant improvements to patient safety but could also substantially reduce its carbon footprint and boost its sustainability levels by reducing the use of natural resources.

Nitrous oxide (N₂O) and medical oxygen (O₂) are used extensively in hospitals. High levels of energy are used to separate air and produce medical gasses. Preventing leaks in hospitals has positive implications for the environment but a significant leak of either gas in a hospital can represent a serious health hazard.

The ii900 Industrial Acoustic Imager has been used to carry out rapid visual inspections on all pipes that send nitrous oxide from hospital basements to operating theatres and deliver oxygen to patient beds. This has enabled all leaks to be dealt with, reducing wastage percentages, and boosting Mediclinic hospitals' levels of patient safety.

Improving sustainable operations

Committed to the efficient use of natural resources to improve patient care within Mediclinic, Petrus Swanepoel, said: "There is a pressing need for companies around the world to act more sustainably and the Fluke ii900 Industrial Acoustic Imager enabled us to do this by minimising the leakage of any medical gases and our increased use of oxygen during the pandemic, with its associated

costs, focused our attention on the benefits of identifying leaks. We are delighted that the equipment has been able to make such a big difference to patient safety and to minimising wastage."

Francesco Pagin of Fluke added: "The ii900 Industrial Acoustic Imager has become highly popular as a tool for detecting leaks in compressed air systems, so this innovative application at the Mediclinic hospitals for identifying medical gas leakage is a really interesting new area of use. It opens up opportunities for maintenance and sustainability teams across a range of other sectors to boost efficiencies and sustainability levels by incorporating this powerful yet easy to use tool into their inspection and testing regimes."

With its seven-inch LCD touchscreen and battery life of at least six hours, the Fluke ii900 Industrial Acoustic Imager is designed for use in range of challenging environments where testing can be carried out from a safe distance. Using a SoundMap™ on a visual image for rapid identification of discharge or leaks between frequencies of 2-100 kHz, the ii900 makes video recordings of up to five minutes.

For more information on the Fluke ii900 IndustrialAcoustic Imager, please visit www.fluke.com/en-gb/product/industrial-imaging/sonic-industrial-imager-ii900

KDSI-SR modular cable entry installed from the outside

Conta-Clip introduces the new, inverse and modular KDSI-SR cable entry system for reliable sealing, maximum flexibility and time savings feed-through for cables with and without plugs. The system is designed for installation from the outside of a control cabinet, enclosure or machine. Part of the popular KDS Click cable management range, the KDSI-SR system, too, allows for comfortable, flexible reconfiguration of existing installations at any point in time. The components can be easily removed, exchanged and reassembled.

The clever system concept for the separable insertion of individual sealing elements

facilitates customized cable management – since cables with plugs do not have to be disassembled and reconnected for retrofits or servicing, the manufacturer's warranty is retained. The KDSI-SR system is based on the proven modular design and simple assembly concept of the KDS program. It merely features an inverse tapered design of the screw-on frame's opening and includes an additional two-part cover with TPE seals in three levels.

This ensures an absolutely tight fit of the sealing elements, which are available for one, two or four cables or as blanking plugs.

The sealing elements with serrated edges and a tapered design provide IP66 ingress protection and reliable static strain relief in compliance to DIN EN 62444. They also allow for

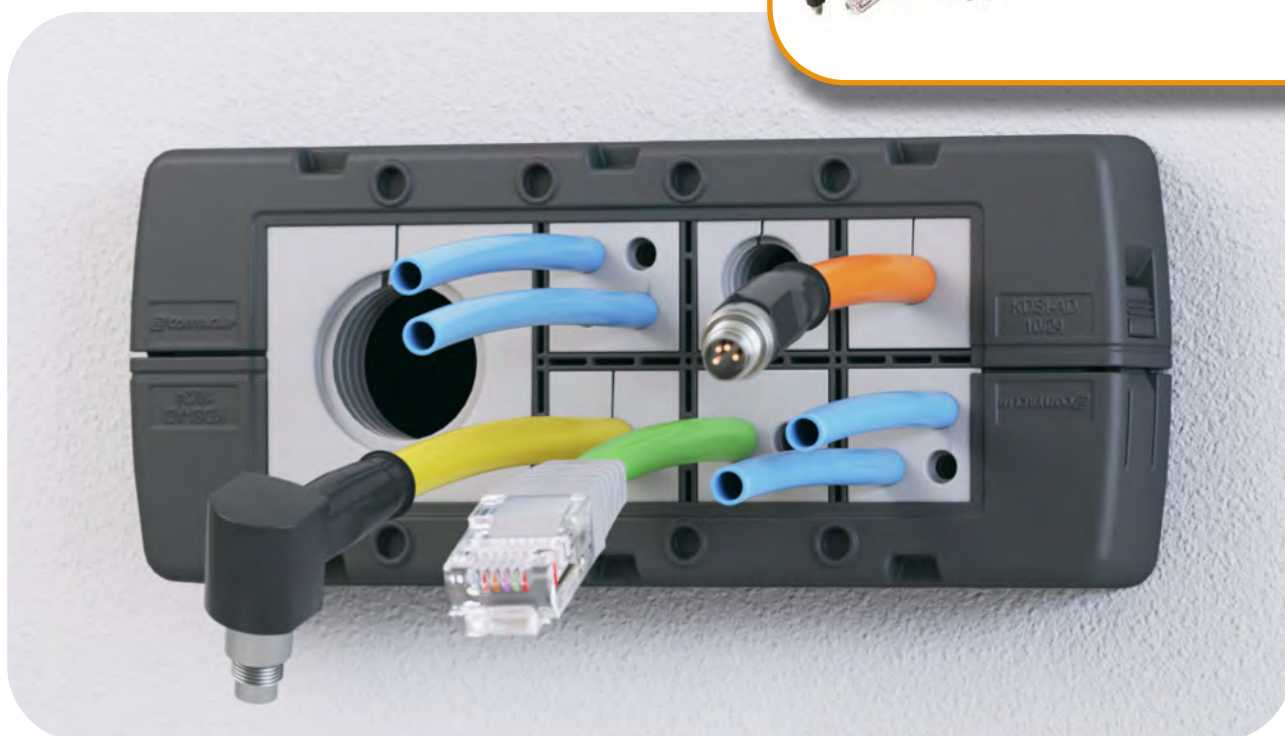
high packing density in comparison to cable glands.

The halogen- and silicone-free KDSI-SR cable entry system is suitable for a wide range of requirements and ambient temperatures from -40 °C to 120 °C. KDSI-SR frames are available for 4, 6, 8 or 10 sealing elements in various configurations to match the number and diameters of cables.

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