

Best Practice



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Announcing Bona Traffic GO Lacquer for wood floors

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...more than just vending

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DEEP HOLE DRILLING SYSTEMS

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Editors Notes

Liz Dickinson
Editor



In this issue of Best Practice, we bring you a round-up of the latest innovations across automation and processing, to help businesses prepare for Industry 4.0 and beyond.

Many companies featured are working hard to push sustainability boundaries, to bring you next-level green products and alongside cutting-edge automation innovation, we look at how companies are remaining staff and customer-centric.

Coinadrink is the recipient of our featured Production Innovation Award this issue on page 7. Having good workplace morale is essential for employee staff wellbeing, which in turn increases productivity. Happy staff are loyal and work harder. Coinadrink supply fresh food, coffee, vending machines and micro-markets, which is ideal for keeping staff on site during breaktimes and encourages relaxed downtime amongst colleagues. The company fill, clean and maintain all products, leaving you with one less thing to worry about. Coinadrink is all about innovation too and is busy developing SMART fridge technology, with an interactive self-service menu.

Premium floor product specialists: BONA have launched a new lacquer: BONA Traffic Go: designed for commercial areas with heavy-wear and foot traffic. With two-component (2K) technology and built-in hardener, this product is purposefully designed for optimised safety and durability. BONA are regarded as sustainability pioneers and this new product contains no isocyanate or PFAS, which the company are phasing out. Turn to page 3 to read more.

Interface are industry-leading suppliers and distributors of sensors and associated electronics. The company's new e-commerce website provides a streamlined customer experience and offers a quick lead time on G-series load cells. The innovative in-house team at Interface are currently working on wireless force and vibration sensors for remote monitoring in systems such as luggage carousels. Read about these innovations and more on page 5.

Other topics explored in this issue include: drainage engineering, thermal loop solutions, high-speed eco-pumps, subsea valves, modular aluminium industrial work stations and air quality product ranges.

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

Cover Story

Bona, a global, sustainably-driven company that supplies products for installing, renovating, maintaining, and restoring premium floors is announcing the launch of its new lacquer, Bona Traffic GO.

See page 3



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Announcing Bona Traffic GO Lacquer for wood floors with heavy-wear durability and built-In hardener



Bona, a global, sustainably-driven company that supplies products for installing, renovating, maintaining, and restoring premium floors is announcing the launch of its new lacquer, Bona Traffic GO. This unique wood floor treatment is developed with innovative two-component (2K) technology and a built-in hardener providing simplicity, safety, and heavy-wear durability all in one product.

The innovative curing technology is a significant evolution in the wood floor lacquer industry. Without compromising performance, Bona Traffic GO is free from isocyanate due to its built-in hardener, as well as PFAS, which Bona is phasing out and replacing with other

components. With less than 3 percent volatile organic compounds (VOC), Bona Traffic GO ensures a healthier application and curing process that exceeds current legislative guidelines while meeting high levels of durability and performance.

"With its unique 2K technology, Bona Traffic GO is the perfect solution for a commercial environment particularly those floors with heavy wear and foot traffic. It is tough with a professional level of durability while also allowing an easy application process. Bona Traffic GO delivers high level performance with health and sustainability in mind," said Thomas Hallberg, Director Product Management Professional EMEA/APAC, Bona AB.

Bona Traffic GO's unique integrated hardener is activated once the product is applied to the wood surface. This technology allows Bona Traffic GO to perform as a 2K product designed for heavy wear areas, with all the benefits of one component (1K) simplicity. The product's high durability also means remarkable scuff and stain resistance.

Because of the integrated hardener, contractors can omit measuring and mixing thereby saving time, wastage and allowing for more flexibility in the work process. Bona Traffic GO provides a clear coat, non-yellowing appearance with unlimited pot life to minimize waste.

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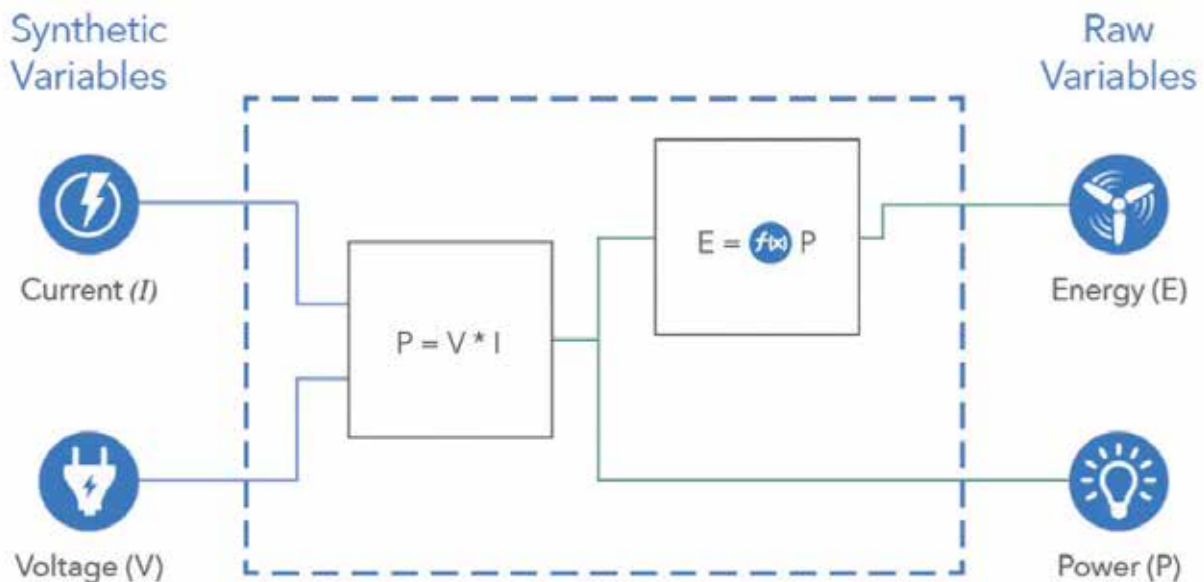
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Smart fridge technology next-generational vending

Here at Best Practice, we have selected Coinadrink Ltd for our Product Innovation Award for outstanding refreshment solutions.

Work breaks enhance our productivity, overall wellbeing and happiness levels and are integral to higher levels of company morale. Having access to cost-effective refreshment solutions such as high-quality office coffee machines, snacks, cold drinks and fresh food is the perfect way to boost happy workplace cultures.



Award-winning Coinadrink Ltd are a leading supplier of workplace coffee, vending, fresh food, micro-market and water cooler solutions, spanning over 60 years in the West Midlands area. From hot and cold drinks, to snacks and even fresh food, this Walsall-based company provides a customer-centric approach to refreshment solutions to industries such as: manufacturing, automotive and logistics industries, and a growing customer base in the legal and financial services sectors.

The family-run company was recently delighted to win, 'Best Overall Operator' at The Vendies Awards 2023 and is eagerly awaiting results of the Black Country Chamber of Commerce

Business Awards 'Family Business of the Year' category later this Autumn. Many existing customers have left glowing reviews such as Jayne Houlston: Health & Safety Executive at LW Cole Appliances,

"We have used Coinadrink for many years and have always found their service to be first-class. Your service is exceptional and your delivery guy was a credit to your company: extremely polite and helpful."

This successful company was originally founded by Roger Williams in 1962 and was one of the first vending machine companies to gain the Investors in People Award. With an emphasis on optimal management and development of its staff, this award-winning company is focused on nurturing happy staff and customers alike.

Roger's son Tom is now Managing Director and we caught up with Tom to find out more about Coinadrink,

"We endorse workplace wellbeing programmes, giving businesses facilities that keep their staff on site at break times, encouraging staff to make the most of their breaks by having easy access to food and drink on site and encouraging those people to sit together and get to know their colleagues better and collaborate over a break.

The service provision we offer, being mainly fully managed, is enabling businesses to not have to worry about the tea and coffee being restocked in kitchens as we are providing vending machines with all the filling, cleaning and maintenance provided.

Our unique hygiene procedures for our hot drinks vending machines enable us to stand out from the crowd when it comes to our commitment to cleanliness and drink quality. The procedures ensure our machines are maintained to the highest of standards so our customers and their staff get the best tasting drinks possible.

All of our systems are uniquely bespoke, no off the shelf or third-party software is used which enables us to tailor our services and make constant improvements where necessary.

When our customers do have an issue such as a machine not working, we have an industry leading response time promise of under two



hours, no one in our industry promises that. We actually achieved 58 minutes across 2022/23 financial year, which is remarkable.

We are currently developing our own Smart Fridge technology: a modern take on vending with a bigger focus on a retail feel. The Smart Fridge incorporates fresh food, cold drinks and ambient snacking products, into one total system operated through an interactive self-service menu. This allows us to offer meal deals, offers, promotions and loyalty through the system: something very difficult to do through traditional vending.

We are extremely excited for the future, as we are in a period of considerable growth, with plans to expand our premises and grow our team to better serve our existing and new customers."

For more information and support, see the details below:

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Lanes Rail passes ISO 9001 and ISO 14001 audits with flying colours

Lanes Rail has passed its latest ISO quality and environmental audits with no non-conformities – the third year in the row it has achieved perfect audit outcomes.

The achievement confirms Lanes Rail, a division of Lanes Group plc, holds certification for both ISO 9001 for quality and ISO 14001 for environmental management.

Daniel Ward, Health, Safety, Quality and Environment Manager for Lanes Rail said: "Achieving certification for both standards with no non-conformities for three years is a great achievement.

"It reflects the standards set by all our colleagues and the willingness of Lanes Group to invest in equipment and working practices that allow us to continuously improve.

"The auditors from BSI do not just look at our management systems, they go out on site and see how they're put into practice. So everything must be in place and working as it should to not get any non-conformities."

Sustainable operations

The achievements also means Lanes Rail clients, including Transport for London and Network

Rail, can be confident the ISO 9001 and ISO 14001 are not just met but fully underpin work carried out, Dan Ward added.

ISO 9001 defines good and effective quality standards, supported by a quality management system, across a range of parameters, including customer focus, risk management, and leadership.

ISO 14001 considers all aspects of an organisation's work related to environment protection, waste management and sustainable operations, including efforts to reduce carbon emissions.

Lanes Rail is a leading provider of services to the rail industry. It manages major contracts for Transport for London, delivering drainage, structure maintenance and repair, vegetation control and lock management services.

Electric vans

It could point to significant investment in new vehicles which means all 66 vehicles in its fleet, with the exception of three vans, are Euro 6 compliant, the highest standard for reduced emissions and fuel efficiency.

The division has also invested in two electric



vans which are used by plumbers to travel between London Underground stations to carry out repairs.

Lanes Rail also uses a highly-effective digital work management tool, called Teamleaf, which it has adapted to its own needs, to streamline workflows, improve customer service and make sustainable operational decisions.

www.lanesgroup.com

Drainage engineers use "exemplar" safety systems to clean deep railway sump

Rail for London (RfL) commissioned leading rail specialists: Lanes Rail: division of Lanes Group plc, to clean a sump along the 73-mile length of the Elizabeth Line.

The sump in Silvertown, East London, next to London City Airport was 25 metres deep and is the deepest wastewater asset along the length of the new line.

In-house safety experts: Lanes Rail Health, Safety, Quality and Environment Manager: Dan Ward and Project Manager: Aaron Turner designed a work to protect the four Drainage Engineers.

The Lanes Rail engineers had to descend a shaft equivalent to the height of an eight-storey building to clean the sump.

The clean-up mission required detailed planning, as Dan Ward outlines: "This was one of the deepest shafts Lanes Rail operatives have ever worked in. Our safety systems had to reflect a range of serious hazards our team faced during the three day operation.

"All our drainage engineers had undergone confined space training and we very carefully assessed all eventualities in creating a bespoke risk assessment and method statement for this project."

The Connaught Road Pump House: a seven-metre-diameter concrete ring shaft, has two

sets of pumps that manage surface water from several locations along a portion of the Elizabeth Line.

The work was carried out when no rainfall was predicted, as the shaft was essentially designed to hold maximum surface water up to half its height during heavy rain periods.

The highly-skilled engineers needed to descend shaft ladders linked by seven landings, to reach the sump waste pit beneath the pumps.

Each engineer wore a harness and was clipped to fall arrest lines, strategically set up between each landing. They were issued gas monitors and confined space emergency escape sets, with small tanks holding 30 minutes of air.

The engineers were supported at all time by a three-person space rescue team, with breathing apparatus from Health & Safety specialist: ESS.

For the duration of the operation, one member of the rescue team was with the Drainage Engineers and two stayed on the surface.

The shift had an encompassed electric winch for planned preventative maintenance, helping remove sump material and in case of emergency personnel rescue.



Before the clean-up, all the ladders, guardrails and floor assets in the shaft had been inspected and recorded, landing-by-landing and deemed safe and fit-for-purpose.

The team removed silt and other debris from the two-metre-deep pit, with all sludge loaded into one-tonne bags and winched above ground for safe disposal. Aaron Turner explains further,

"In the event, we removed no more than two tonnes of silt. This will give RfL good guidance for planned maintenance needs going forward."

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Thermal Loop Solutions

A path to Improved **Performance, Sustainability** and **Compliance in Heat Treatment**

Heat treatment processes are a crucial component of many manufacturing processes, and thermal loop solutions have become increasingly popular for achieving improved temperature control and consistent outcomes. But many OEMs are missing opportunities where thermal loop solutions offer more than just greater control. In this article, Peter Sherwin, global business development manager heat treat and Thomas Ruecker, senior business development manager at industrial heating technology supplier Watlow, explore the possibilities of thermal loop solutions.

A thermal loop solution is a closed loop system with several essential components, including an electrical power supply, power controller, heating element, temperature sensor and process controller. The electrical power supply provides the energy needed for heating, the power controller regulates the power output to the heating element, the heating element heats the material, and the temperature sensor measures the temperature. Finally, the process controller adjusts the power output to maintain the desired temperature for the specified duration, providing better temperature control and consistent outcomes.

Performance benefits

Heat treatment thermal loop solutions offer several advantages over traditional heat treatment methods, including improved temperature control and increased efficiency. The thermal loop system provides precise temperature control, enabling faster heating and cooling and optimized soak times. In addition, the complete design of modern thermal loop solutions includes energy-efficient heating and overall ease of use.

Thermal loop solutions can also be integrated with Industry 4.0 frameworks and data management systems to provide real-time information on performance. Combining AI and machine learning algorithms can also provide additional performance benefits, such as the ability to analyze data and identify patterns for further optimization.

The effectiveness of heat treatment thermal loop solutions can be measured using metrics such as overall equipment effectiveness (OEE). OEE combines metrics for availability, performance, and quality to provide a comprehensive view of the efficiency of a manufacturing process. By tracking OEE and contextual data, organizations can evaluate the effectiveness of their heat treatment thermal

loop solutions and make informed decisions about optimizing their operations.

Supporting sustainability

Heat treatment thermal loop solutions provide several sustainability benefits, including reduced energy consumption and waste. The power controller regulates the power output to minimize energy waste, and the possible integration with renewable energy sources provides a complete power solution that spans from element design to recycling. The thermal loop solutions, in combination with insulation design and materials, provide energy-efficient solutions that contribute to sustainability and reduce the environmental impact of heat treatment processes.

When discussing these systems in the context of greenhouse gas emissions and the environmental impact, it's essential to consider Scopes 1 (direct emissions), 2 (indirect emissions from energy), and 3 (other indirect emissions), as well as the less common Scope 4 (avoided emissions).

At the component level, energy savings can be realized using current technology. Advanced Selective Catalytic Reduction (SCRs) provide predictive load management functions and hybrid firing algorithms contribute to sustainability by optimizing the energy usage of heat treatment processes. These SCRs offer real-time monitoring and control of energy consumption, while predictive load management systems use specific algorithms to manage peak power loads and adjust to optimize for local conditions such as load shedding or load sharing.

Adaptive thermal system (ATS) solutions are the next frontier of thermal loop solutions. Watlow has decades of experience with thermal systems to help engineers and designers to incorporate ATS technology into a variety of industrial processes and products.

ATS, which combines sensing, heating and control technologies, represents a different and more innovative approach to controlling thermal performance for complex systems, and provides a merged design between heater and control systems.

Regulatory compliance

NADCAP, the National Aerospace and Defense Contractors Accreditation Program, is an industry-driven program that provides accreditation for special processes in the aerospace and defense industries. Heat

treatment is considered a "special process" under NADCAP because it has specific characteristics crucial to aerospace and defense components. These characteristics include process sensitivity, limited traceability, critical performance requirements and potential risk.

NADCAP heat treatment accreditation ensures suppliers meet industry standards and best practices for heat treatment processes. The accreditation process includes audits, thorough documentation, and ongoing process control monitoring to maintain high quality, safety, and performance levels.

The aerospace industry's AMS2750TMG pyrometry specification and the automotive industry's CQI-9 Issue 4 regulations are crucial for ensuring consistent and high-quality heat-treated components. Adherence to these regulations is essential for meeting the stringent quality requirements of the aerospace and automotive industries and other industries with demanding specifications.

Continuous improvement is also emphasized by both AMS2750G and CQI-9 Issue 4, requiring manufacturers to establish a system for monitoring, measuring and analyzing the performance of their heat treatment systems. This development enables manufacturers to identify areas for improvement and implement corrective actions, ensuring that heat-treating processes are continuously improving and meeting the necessary performance and safety standards.

By integrating these regulations into a precision control loop, heat treatment thermal loop solutions can provide the necessary level of control and ensure compliance with AMS2750G and CQI-9 Issue 4, leading to the production of high-quality, heat-treated components that meet the performance required and safety standards.

Heat treatment thermal loop solutions provide several benefits over traditional heat treatment methods, including improved temperature control, increased efficiency, and improved sustainability outcomes. The integration with Industry 4.0 and data management systems, as well as the use of OEE metrics, further help enhance the performance of heat treatment processes. As Industry 4.0 digital transformation continues to evolve, heat treatment thermal loop solutions will play an increasingly important role in the future of heat treatment.

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Game-changing High Speed Eco Pumps demonstrate dilution pump evolution

Quantex™ is synonymous with game-changing liquid dispense solutions. As the premium leading brand for recyclable positive displacement pump technology, the focus has been on saving carbon emissions and sustainable products for some time now. This year sees Quantex showcasing samples of its upcoming exclusive new range of High-Speed Eco-Pumps, which work three times faster than standardised pumps.

Dr Paul Pankhurst, Quantex founder, heralded a new chapter when he invented the first Quantex alternative to the traditional peristaltic pump. Following subsequent meticulous research and development over the years, Quantex brought out a succession of highly successful off-the-shelf recyclable pumps, all with varying flow-rate continuums.

Quantex was acquired by PSG, an operating company of Dover Corporation and joined 13 other specialised pump and flow measurement brands. Following the highly successful acquisition, Quantex now works from its European headquarters in Duisburg, western Germany, sharing the state-of-the-art facilities with established PSG brands: Quattroflow, Almatec, and Hydro. The original Quantex UK central London office and dedicated manufacturing plant in High Wycombe, Northwest of London remain fully operational.

From its enterprising, innovative roots to exciting collaborative culture ethos, Quantex has continued to pave the way in recyclable pump technology. The full range of pumps: micro-dosing, low-flow, bag-in-box and high-flow are now followed by numbers signalling the pump's estimated maximum litre flow rate per hour. This semantical re-branding helps customers find the ideal pump quickly and conveniently.

The high-speed/eco-pumps run

across the low-flow, bag-in-box and high-flow pump ranges: QX60-HS pump, QX150-HS pump and QX265-HS pump respectively. The eco-pumps can be recycled and come with an additional 12% weight reduction.

The standard and dilution pumps formed a seal through a silicone rubber spring that squeezed the membrane against the rotor of the pump. Some dedicated previous customers were able to successfully recycle these pumps, but it was not the most straight-forward process. The silicone needed separating from the polyolefin through grinding and flotation techniques.

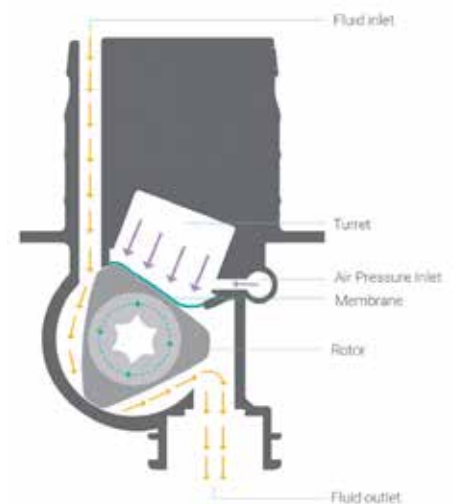
The silicone spring has been completely removed in the new High-Speed Eco-pumps, using air pressure instead, to seal the membrane to the rotor. The empty silicone spring chamber is sealed, the exception being the inlet from the dilution port. A low-cost air pump is connected to the port, applying air pressure to seal simultaneously, as the Eco pump dispenses. There is a small nitrile rubber lipseal, (comprising only 3% of the pump weight) the remaining 97% polyolefin thermoplastic material is fully recyclable.

We caught up with Gillian Harding-Moore, Director of Global Marketing, to find out more, "Our new High-Speed Eco Pumps are an exciting development for 2023. These new pumps ingeniously use air pressure to activate the diaphragm and seal the pumps instead of a silicone spring, making them more easily recycled, and they run at superior rates: almost three times as fast as our standard or high-pressure pumps.

"We are also delighted that, in partnership with sister brand, Quattroflow, Quantex is moving into the Biopharma industry: providing low-shear micro-dosing capacity for cell



Bag-in-Box Eco Pump Cross Section



and gene therapy as well as laboratory and upstream bioprocessing, helping provide future genetic therapies. It is great to see our pumps supporting in this important research."

Alongside the Biopharma industry, Quantex is looking to collaborate with sister PSG brands in Industrial Cleaning, Agriculture and Retail.

The High-Speed Eco Pumps have already proved to be of popular interest across many sectors and Quantex has already seen a phenomenal doubling of pump production since 2021. The Bag-in-Box pump production will benefit from an additional automated assembly line and in-house sales forecasters are looking at a further tripling of pump production this year alone.

To find out more about the latest High-Speed Eco Pumps, see the details below:
London Office +44 (0)20 8735 5880
German HQ +49 (2065) 89205-0
quantex-info@PSGDover.com
www.psgdover.com
www.quantex-arc.com



Triple Gate Valve Triumph for Oliver Valvetek

Oliver Valvetek identifies new and emerging opportunities to supply higher pressure small-bore subsea valves, and recognises the technical barriers that hinder most other valve suppliers.

The subsea oil and gas industry has been rapidly developing new technology to allow the development of 'challenging fields'. These challenges are usually associated with high pressure, high temperature (HP/HT), and operation at great depths.

Fields with pressures of 15,000psi (1034bar) were generally considered high pressure, however, new fields are now being discovered and developed for well bore production with working pressures of 20,000 psi (1380 bar).

Oliver Valvetek had already successfully designed and qualified a 3/8" Nominal Bore 20,000 CWP needle valve for a High Pressure / High Temperature field development in the Gulf of Mexico.

Utilising this specialist and field-proven history with Shell Appomattox, Oliver Valvetek successfully developed and tested a Dual and Tripe Gate valve assembly in accordance with API6A PR2F, API 17D and API 17C.

The journey started early in 2021, Oliver Valvetek scoped out opportunities to supply other small-bore High Pressure / High Temperature valves to these new and technically challenging fields. Working closely with Trendsetter Engineering based in Houston on their modular Trident 20K Intervention System, Trendsetter and Oliver Valvetek engineers began work on designing valves that would meet these new high pressure, high temperature requirements.

Subsea small-bore valves have to conform to the same rigorous standards for design, qualification and manufacture as the much larger bore valves. Rapid demand for smaller compact HP/HT valves has mainly been due to increased numbers of 20,000psi fields being reviewed for development.

Clearly, the technical challenge for our engineering team, was how to achieve subsea qualification testing on much smaller and compact valves at much higher pressures and temperatures, and in rapid time. Importantly not compromising on Safety, which remains critical for valves being installed in these applications.

Work began in March 2021 to develop two valve types that were required for critical application of flow control and monitoring on the Trident 20K Intervention System – ½" Double Gate Valve and ½" Triple Gate Valve, both manufactured using Nickel Alloy 718 material.

Project technical specification requirement:

- ▲ High Pressure 20,000 psi
- ▲ High Temperature +150°C / +302°F
- ▲ Operating Depth 3:048m / 10,000 ft

Small bore gate valves are often used for chemical injection, venting flowlines and bypass lines, and these valves can be required in single isolate arrangements but also in double and triple or 3 valve assemblies.

Weight is a crucial factor for equipment being lifted and installed on the subsea. Using the very latest in elastic-plastic finite element software, valve designs have been optimised to produce the most compact small-bore valve to operate subsea at 20,000 psi high pressure.

API technical reports provided the necessary guidance to our engineering team, and client, on analysis tools and design processes for HP/HT subsea equipment.

This resulted in a Double Gate Valve comprising of 2 x manual Gate Valves in one block, and a Triple Gate valve with a combination of both manual and hydraulic functions. The full valve designs were subject to numerous technical assessments as part of the API qualification, followed by strict design evaluations including; FMECA, Elastic-plastic analysis, Ratcheting Assessment, and Fatigue Assessment, all of which were reviewed and verified by nominated I3P's such as the Bureau of Safety & Environmental Enforcement (BSEE).

Prototype testing takes many weeks to simulate valve operation at varying pressures, temperatures and working depths. Hydraulic actuated valves require separate testing on the hydraulic operation and the override operation.

Steve Williams explains the extent of the testing process, "Close client collaboration and extensive technical evaluations were instrumental to the success, as too, were the independent design and process validation by Third-Party and client Regulatory bodies evaluating all aspects



of the design for Safety, Quality and long-term reliability.

"Enhanced QC & QA procedures at each stage of production of both valves were implemented, including body integrity pressure testing up to 30,000 psi. Even before the order could proceed, the ½" gate valve was subject to extensive in-house qualification procedures that simulated the intervention system, in an extreme pressure and temperature environment deployed subsea – all conducted in our own state of the art R&D facility."

He continues "Valves operating in such extreme environments require extensive and arduous qualification testing to meet API standards. This project was the most technically reviewed and evaluated one we've ever undertaken, and by far, the most rewarding for our engineers and designers. Everyone involved in the project is acutely aware of the leaps we've made in terms of research & development, engineering design, and manufacturing processes. We're all very proud of this achievement and very much look forward to future developments with our clients."

For more information on how Oliver Valvetek can supply your subsea project with the very best valve solutions, contact us on +44 (0)1565 632 636 or email sales@valves.co.uk Website: www.valves.co.uk



The future of automation lies with people - not processes

Placing people at the heart of automation is key to the future of industry, says Intoware's Keith Tilley.

Most people will have heard of Industry 4.0 – the powerful concept of using smart technologies such as AI, the cloud, Internet of Things (IoT), wearables and 'real time' data.

This use of digital technology to monitor and manage processes is already improving performance, by streamlining critical work processes and collecting and analysing data for better decision making. However – data doesn't mean a lot without people to use it and in fact, the human element has been somewhat overlooked.

For this reason, the next industrial revolution - Industry 5.0 – needs to put people back at the heart of industrial production, empowering employees to work in collaboration with technology that has been designed around the way they think and work. The key is to combine people, processes and systems harmoniously.

The move to put people back at the centre

of industry ensures engagement and satisfaction with technology, gathering feedback and learning from the processes put in place; the human elements that are often missed.

Digitalising human-centric processes such as reporting and training enables data to be collected and analysed to identify 'human bottlenecks' such as gaps in training requirements, different methods used by staff to carry out tasks, and varying recording and reporting techniques, across the workforce.

It also captures and records all the human processes needed to keep things running, such as machine set up, quality assurance inspections, equipment maintenance and repairs, fulfilling compliance requirements more effectively by using photos and video evidence, as well as timestamps and a log of who did each process.

This connectivity between employees and technology reduces inefficiencies and enhances productivity levels, engaging with the workforce to continually improve both workforce and customer satisfaction – something that is vital, yet missed by



many companies rushing to digitise critical industrial processes, overlooking the requirements of people at the heart of their businesses.

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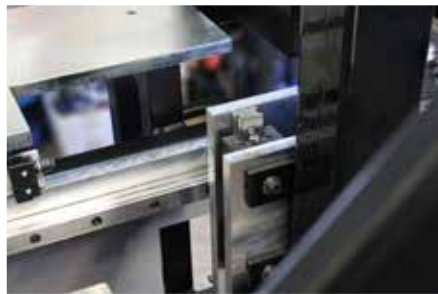


FIND OUT MORE



Specialists in Automation Components

In this issue of Best Practice, we are honoured to select Matara UK as our Automation Components Company of the Year.



Matara UK is an industry-leading provider of pneumatic and linear automation products and is widely considered company of choice for businesses across the UK.

Established in 1995, the company joined Rubix UK in 2021: one of the world's leading suppliers of industrial equipment supplies. As a specialist supplier and manufacturer of industrial automation products and automation components, Matara provides Rubix UK with a significantly expanded footprint in the mechatronics sector. This strategic partnership has driven the company forward, with new lines of investment that have enabled the delivery of even more high-quality linear motion, automation and pneumatics products to our customers.



James Chanin, Managing Director

The company provides customised solutions to machine builders across aerospace, automotive food and pharmaceutical.

We spoke to Aidan Shearer: Product Marketing Executive to find out more,

“Over the last year we have seen a large increase in the volume of sales and enquiries through our upgraded Matara website online shop. Customers are able to buy custom-cut lengths, as well as select machine options, and additionally choose from a wide range of accessories. The new site also saw the inclusion of various products from our linear motion and pneumatics product ranges.

We've recently attended Automation UK in June and Machine Building Live this October. At both shows we showcased a demonstration unit that included an aluminium profile frame, with belt and ball screw linear actuators, with Gapp's control units to give motion to the actuators. Machine building live was the first time that we exhibited with our sister companies: Gapp Automation Ltd and KJN Automation Ltd, as part of the Rubix UK's Motion Control and Automation division.”

Matara manufactures and supplies four main product lines to industry customers: Linear Motion, Linear actuator systems, Aluminium Extrusion and Pneumatics.

Firstly, within Linear Motion, custom-length Linear Rail is available from supply partner: PMI, with various types of linear rail and carriages available from stock. The supply partner for Ball Screws is TBI Motion, with ball screws cut to demand and machined

in-house to bespoke customer CAD dimensions. The Linear Clamps are available in Linear Rail and Linear Shaft types and are often used as a safety mechanism, if a linear motion system fails. Furthermore, Rack & Pinion and Lead Screws are machined in-house to customer specifications.

Secondly, regarding Linear actuator systems, the Belt-Driven Actuators are perfect for use in long stroke, high speed, horizontal applications. They are built in-house to custom stroke lengths and internally guided as standard, with external guides also available. The Ballscrew Driven-Actuators are ideally designed for vertical applications, with custom-strokes available. Furthermore, complete Motion Control Systems are available for the range of linear actuators, in partnership with our sister company: Gapp.

Thirdly, as part of Aluminium Extrusion, the Aluminium Profile is cut to specific sizes and machined in-house and available online for purchase. Customers can purchase modular, easy-build work benches and workstations, with standard options available to buy online. Bespoke options are also available upon request. Assembled Machine Frames and Guarding are available, alongside many online Profile Accessories from the large stock.

Lastly, there is a wide range of pneumatic products available, with supply partners: Mindman Pneumatics, including ISO Pneumatic Cylinders- assembled in-house to custom stroke lengths, Rodless Cylinders, Pneumatic Control, Pneumatic Filters and Regulator Units.

“Looking to the near future, we are currently increasing the size of our factory's footprint, expanding into the unit next door. This will allow us to have organised and dedicated areas for the assembly aluminium profile machine frames and guarding, allowing us to increase our volume of output, and increasing efficiency,” concluded Aidan.

www.matara.com

British Adhesives & Sealants Association



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

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

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

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

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

T 03302 233290
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www.basa.uk.com

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



STRONGER BONDS MAKE BETTER BUSINESS

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

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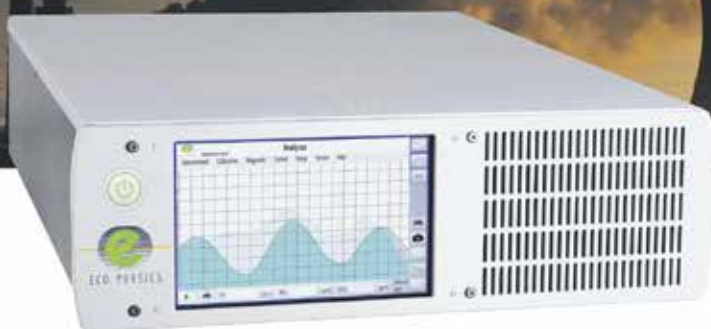
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The one- and two-channel chemiluminescence based NOX analyzers of the nCLD "Facelift" box-solution analyzers detect NO, NO₂ and NO_x at concentrations ranging from 5 ppm to 5000 ppm with minimal detection limits averaging from 0.4 ppb to 0.5 ppm. They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



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Game changing installation of Mycronic equipment

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



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

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

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

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

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

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Work smarter with RLJB Financial & Business Advisor



RLJB Business Consulting is Directed by senior finance professional, Roy Brown. Boasting significant

experience and expertise in a variety of business sectors, Roy's background of being a finance director working with a fast-moving entrepreneurial managing director has given him the acute skills and insight that helped to turn a small Panavision Europe Ltd business into a complex worldwide organisation now making over £4.5 million profit. Making £4.5 million. profit." Gaining further practical experience when RLJB undertook a 15 month contract to put in place policies and procedures relating to Sarbanes Oxley and Fraud Prevention Act in Aspire Defence for KBR after they purchased Aspire Defence after the collapsed of Carillion.

Whether you are a large cooperation, or a smaller SME, RLJB can help to support your business through change, growth, crises or

decline. Roy and his team work quickly to understand both the day to day and long-term operations to enable an easy partnership that is successful in driving your business forward. This is achieved through providing skilled experienced accountancy advice, bookkeeping and business strategy.

Exhibiting at The Business Show 2022 gifted Roy the opportunity to meet many entrepreneurs from varying industries. Attendees and other like-minded professionals took some valuable advice and lessons from what RLJB had to share at the Show, as Roy discussed and shared his thoughts on the challenges businesses face when looking for a professional financial advisor.

For an experienced and skilled finance and tax adviser who will understand your company's vision and goals, get in touch with RLJB today.

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Big benefits from small parts picking in pallet racking

BITO
STORAGE
SYSTEMS

Edward Hutchison, Managing Director of BITO Storage Systems, explains how using pallet racking for small parts storage turns this ubiquitous storage product into a flexible order picking solution.

While constant innovation generates a stream of new intralogistics solutions, 'classic' pallet racking remains the most commonly used storage system. Its relatively low investment costs and flexibility – whether through changing rack configuration, retrofitting special purpose modules or adding extra bays – have made it an indispensable framework for storage and order picking systems.

Of course, many operations use pallet racking as the basis for straightforward storage and retrieval of full pallets, either to fulfil customer orders or as a bulk store for replenishment. But the trend toward shorter product life cycles is increasing SKU numbers. The drive to minimise stock levels for each SKU and improve picking process efficiency to speed up order fulfilment, combined with demands for Just-in-Time delivery and online retail, is generating a greater need for small parts storage.



This is where the adaptability of pallet racking comes to the fore because small parts picking can be easily integrated within pallet racks. One option is to create small parts pick locations on the reachable ground level, with upper storage levels serving as a buffer store for replenishment. Small parts storage containers will help to store and organise small goods and C-parts – making them available for quick and easy picking.

This will result in a reasonably efficient picking process but ground floor locations within a pallet rack will, of course, be limited. Solutions are therefore required to maximise the available space to create a pick face with sufficient locations for the required SKUs, and enough stock to ensure availability during picks.

Flow shelves can be easily installed into pallet racking to increase the number of pick locations and volume of SKUs located on the ground level pick face. Goods are easily accessible from the front of the racking – the rollers on the flow shelves allow bins and containers containing small items to be picked roll smoothly to the front of the shelf – which makes picking easy. A full container of parts will roll to the operator each time the empty one at the front removed.

Standard shelving is another option to create flexible small item pick faces within pallet racking. There are several solutions: the first incorporates static

shelving at right angles to the racking, with space in between each run to facilitate picking. An alternative option is pull-out mobile shelving that maximises the available space under the racking – though movement of shelving has a negative impact on pick time. A third solution involves static shelving parallel to racking, which makes front items easy to pick. Shelving dividers can be fitted.

Inclined supply shelving within a pallet racking bay will make items clearly visible for picking. Cardboard cartons or plastic bins can be used, though the later option enables preparation in advance at the goods-in area by filling the plastic bin with the items to be picked.

Plastic bins and containers will keep goods protected throughout the intralogistics process and during transport to ensure the quality of products are delivered to the customer in prime condition. It is worth seeking out storage system suppliers that in addition to offering racking, shelving and in flow lanes, also provide a container range comprising a variety of sizes with and a broad choice of accessories. Such a supplier will be able to design the optimum system to fit a given space, maximise the potential for small parts picking and, ultimately, improve fulfilment.

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Hygiene Trio join forces

Danish food hygiene equipment expert joins forces with Warrington hygiene solution provider Christeyns Food Hygiene and application partner H&M Disinfection Systems Ltd, to offer unique turnkey solution.

The leading family-owned supplier of detergents and disinfectants, Christeyns Food Hygiene, has joined forces in a tri-partner initiative with specialist producers of world-renowned equipment manufacturer Foamico and hygiene equipment specialists H&M Disinfection.

This partnership provides the confidence that hygiene operations need to deliver world-class cleaning in the demanding food, dairy and beverage industries from design and supply to effective cleaning and disinfection.

For over 30 years Christeyns Food Hygiene has produced effective formulations of detergents and disinfectants for all applications in the food, dairy and beverage industries with customers from across a range of household consumer brands and suppliers to the UK's food retailers. As part of family-owned Belgium parent company, Christeyns NV, the firm draws on the expertise and knowledge of

a multi-national team of experts.

Foamico is an independent manufacturer of superior cleaning solutions in the food, dairy and beverage industries. Its core business is to develop, manufacture and deliver reliable and efficient cleaning solutions for surface and open plant cleaning worldwide. Operating in 50 countries, Foamico's key focus is on food safety with a reputation for innovation and reliability.

Having worked with CFH for three decades, H&M Disinfection Ltd have built a reputation for providing high quality, bespoke hygiene application equipment which is the cornerstone of many customer's food safety management systems. The partnership was formalised last year to provide customers with a more stream-lined service in the provision of top-quality formulations and equipment.

In partnership, the three firms are committed to improving customer's hygiene operations through effective detergents and disinfectants and the highest quality of bespoke equipment. The new strategic alliance will allow the provision of a unique turnkey solution to the food, dairy and beverage industries



Team outside Christeyns Food Hygiene, Warrington

in the UK supplying chemicals required to achieve food safety coupled with the equipment critical to delivering those products to the food contact surface.

"This is a major step for us and our customers," states CFH Operations Director Andy Bethel. "Three specialist companies coming together to provide excellent equipment, control systems and reliable pump-sets, combined with specialised formulations, will ensure our customers have a one-point solution for both chemistry and application equipment they can rely on."

Enhanced productivity with high-performance error diagnosis

Schmersal launches new version of the SD Gateway

Wuppertal, 9 August 2023.

The Schmersal Group is about to launch a new version of the SD Gateway for its SD bus. Users will be able to take advantage of the improved fault diagnostics offered by the new SDG Fieldbus Gateway. This in turn will help to increase machine and plant productivity by minimising downtime and simplifying commissioning and maintenance. The device is also user friendly and easy to install.

Electronic safety sensors and interlocks with SD interface can transmit comprehensive status and diagnostic data to a higher-level machine control system. Data from the serially connected switchgear is sent via the SD bus to the SDG fieldbus gateway and then passed on via the fieldbus to the machine control unit - enabling the forwarding of error messages such as overtemperature warnings, faulty actuator warnings and invalid actuator combination messages.

The diagnostic information is transmitted separately from safety signals. Warning notifications enable controlled process shutdown and targeted maintenance so as to prevent process interruptions.

The new variant of the SD Gateway also offers

a web server and has a microSD memory card and thus offers the following features:

- ▲ Event logs can be evaluated in real time via the web interface.
- ▲ Complete diagnostic data from all safety switchgear devices are displayed in plain text in the browser window.
- ▲ Devices, such as interlocks and control panels, can be controlled directly via the web interface.
- ▲ The microSD card allows event logs to be exported for evaluation and long-term storage.
- ▲ The configuration of the series connection is stored on the microSD card to enable seamless device replacement in case of error.

In the near future, Schmersal will further expand the functionalities of the SDG fieldbus gateway so that the data of the connected safety switchgear can be transmitted not only via EtherCAT, but also via the common fieldbus protocols PROFINET, EtherNet/IP and Modbus. In addition, networking options will be expanded through connection to IO-Link and OPC UA communication systems.

An additional and significant benefit of the SD bus system is being retained in the



new Gateway: by connecting sensors and interlocks with the SD bus in series (an SD Gateway can communicate with up to 31 safety switchgear devices), this safety solution enables extremely lean wiring and reduces costs without sacrificing Performance Level (series connection for applications up to PL e). Setup and commissioning of an SD installation have been designed to be as convenient and straightforward as possible and all devices receive addresses from the Gateway automatically.

For more information: www.schmersal.co.uk



Electrical vehicle charging points for the home & workplace

With the number of electric vehicles continuing to rise year on year there is no better time than to consider making the switch. Of course, switching to electric has its downsides, but with Charge ur Vehicle it is now easier than ever to make the change with their professional range of high-quality electric vehicle charging points.

As a Government Grant Installer, Charge ur Vehicle has a smooth and simple installation process. Using OZEV qualified technicians and installers you will receive an excellent and friendly service that is time efficient, causing minimal disruption.

As stand out exhibitors at the Holiday Park & Resort Innovation Show 2022, Charge ur Vehicle was inundated with interest from potential customers as they displayed their Domestic, Workplace, and Commercial Chargers.

Perfect for UK staycations, an Electric Vehicle Charging Infrastructure is a great way to increase your sustainability efforts while giving customers the facilities they need on their holiday. Offering a hassle free, greener solution to public EV charging points, by installing a Commercial EV

charging infrastructure within your park can immediately make your business more attractive to holiday makers across the UK.

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Detailed information on VigilEx® equipment and accessories can be found attached to this email and certification and technical drawings are available, free of charge, online at Vigilexuk.com.

Casella announces 2023 webinar series

Global occupational health and workplace hazard monitoring expert Casella has announced its schedule of industry-leading webinars for 2023.

The schedule of free-to-attend, accessible webinars cover Casella's core areas of expertise, including workplace monitoring for noise, dust, gas and vapor hazards, as well as instrumentation usage and best practice. Each webinar is between 30 to 45 minutes and will conclude with a Q&A session to recap.

The webinar schedule is set to run as follows:

7th June - Setting up Air Sampling Pumps

This webinar covers selecting the correct pump, setting up the 'sample train' and ensuring accurate flow, as well as best practices to ensure good quality data.

28th June - Introduction to HAV Monitoring

This webinar reviews the terminology about HAV measurement, legislation and exposure limits, as well as how to measure exposure on the tool correctly and subsequently calculate exposure levels.

13th July - Introduction to Asbestos Sampling

During this 30-minute webinar, Casella's experts will provide an overview of the international use of asbestos. Attendees will learn how to sample for it and how to comply with legislation.

7th September - Use of SLMs and Noise Dosimeters; the best practice guide!

Casella will cover the principles of when to use a noise dosimeter or sound level meter, and the benefits and drawbacks of each.

29th September - Environmental Boundary Monitoring in Construction: Best Practice

This webinar covers the correct siting and installation of monitoring units to ensure compliance with guidance and legislation.

19th October - Introduction to Dust Sampling

During this webinar, Casella will share insights on the types of dust to measure, how to select the correct equipment and also gain insights into the calculation of airborne concentration, and more importantly exposure.

10th November - Introduction to Air Sampling

Attendees of this webinar will keep up with the ever-changing requirements and the rigour of air monitoring and testing. Airborne hazards from fibres, gases, dust, and vapors can all cause potentially life-threatening illnesses affecting the lungs. Air sampling is a method of monitoring a worker's exposure to these potential hazards.

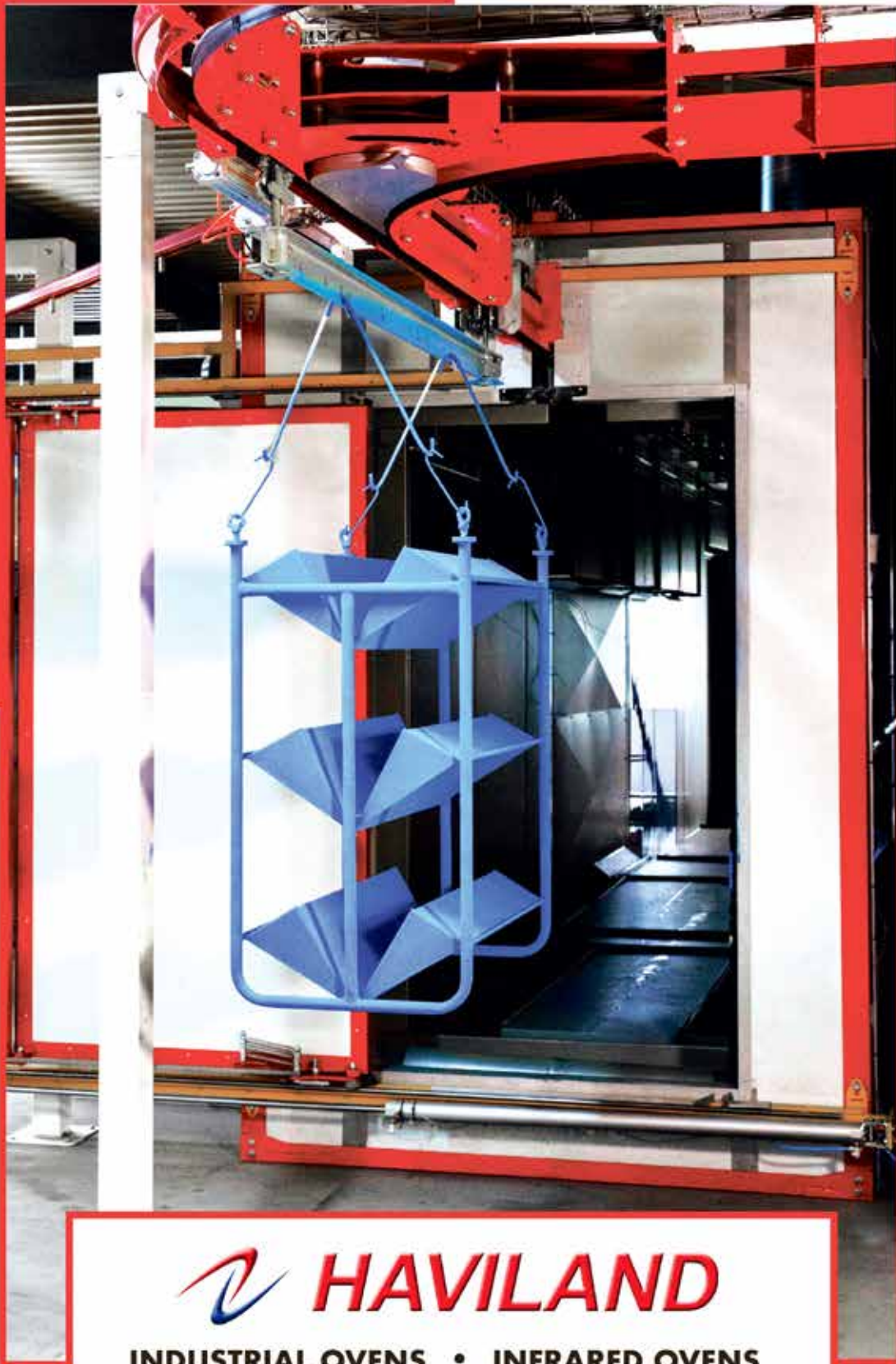
To sign up for any of these industry-leading webinars, free of charge, please visit the following link: <https://tsiinc.webex.com/webappng/sites/tsiinc/webinar/webinarSeries/register/07a8cd379f8d4d89b9671b69fb8477d9>

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Handheld fibre laser welding from Wilkinson Star

HANDHELD FIBRE laser welding technology is new to the UK welding industry, offering excellent welding performance, improving production efficiency and reducing operational costs.



repeatability to the user. Shooting mode offers controllable and repeatable tack welding and single sided spot welding, whilst pulse mode offers aesthetically pleasing welds similar to that of traditional TIG welding methods.

Up to four times faster than traditional welding methods, it offers high precision and neat welding seams on various materials. The Weld Star - Max Photonics system advanced air-cooling with self-adaptive fans ensures long-term stability and a neat, compact design. It is lightweight and ergonomically designed welding torch offers comfort and manoeuvrability to the user at only 680 grams and guarantees multiple safety precautions for welding operations.

A full colour 7" graphical user interface with synergic set up and the possibility to save up to 32 stored jobs offers easy set up and high

Quick training times with the laser process gives employers the opportunity to up-skill workers and increase production

Laser safety is a big factor with this process being a Class 4 appliance. As such, it is imperative that the guidance is followed and this equipment is operated within a suitably approved class 4 enclosure. Wilkinson Star can offer a full package solution in compliance with EN 60825-4. Machines come with a 2 year warranty and torches a 12 month warranty.

www.wilkinsonstar247.com

Introducing JASIC' new single phase PFC range of welding inverters and plasma cutters - EVO 2.0

JASIC EVO is the new standard of UK in welding and is supported with an unparalleled 5-year out-of-the-box warranty.

JASIC is a forerunner of IGBT inverter welding technology and its products have been used in some of the most ambitious products in modern history such as the historic Beijing Bird's Nest Stadium.

JASIC is driven by its passion for the worlds welding needs and strives to deliver reliable and ecological solutions.

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Industrial Processing

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

Bridge Slot

The RMIG Bridge Slot sheets play an essential role when it comes to the design and manufacture of biomass drying floors. The combination of sheet thickness and opening size allows RMIG's sheets to be used either as a suspended floor in wood chip drying containers and trailers, or as drive-on drying floors in outdoor buildings.

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RMIG's Food Processing market sector meets the high levels of hygiene demanded by the food processing industry. Perforated screens are also strong with important thermal capabilities, making them useful for a wide range of food processing applications. RMIG's tailor made perforated solutions are ideal for cleaning, heating and steaming in food production environments. Whether it's baking trays, cereal cleaning or ingredient conveyors, all of RMIG's perforated materials can be customised for each application.

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MattressTek diversifies to meet demand through new sub-brand



Multi-award-winning machinery brand MattressTek is undoubtedly renowned as a leader in the provision of solutions to issues that manufacturers and processors - industrial, material handling and packaging - face.

Whilst some areas of the sector have slowed, the company has been following up enquiries, including those from their presence at recent trade shows, involving the processing of other materials, whilst sustaining their orders for the mattress and foam production worlds - from the slitting and rolling of flooring and window tinting film to stitching, stacking and packing of solar panels and stuffing of foam into gym mats.

In response to feedback from customers and prospects, MattressTek has launched the AutomateTek sub-brand to differentiate the design and build of machines and production lines for use

in the manufacturing, management and material handling in other industries.

Technical director Shaun Peel says: "Innovation is what we do. Adapting and redeveloping our machines to suit bespoke customer requirements so it made sense to listen to the feedback and act on it. As all of our machines have an element of programmable automation, AutomateTek is a logical shift."

Sales director Michael Birtwistle adds: "We'll proudly continue to service the processing of all manner of other materials but want to get in front of those who can benefit from using our machines and adaptive approach for their own solutions. We have found that we can make a machine to solve almost every manufacturing problem."

MattressTek recently expanded their

site in Lancashire into the neighbouring unit to enable them to continue their lean manufacturing operations with the internal building of pallets, crates and packing for shipments, as well as accommodating space to showcase new and bespoke machines for customers to see when they attend the site from across the UK and further afield.

With a run of awards wins over the past 6 months, the brand is excited to continue its international trade and export success whilst designing, building and testing more innovative machines to meet the needs of manufacturers and processors to help them prevent issues and solve problems.

For more information about their new developments and to view their full range check out:
www.automatetek.co.uk

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Lascar Electronics air quality product range: enhancing environmental monitoring and safety



In today's rapidly changing world, the importance of monitoring and improving air quality cannot be overstated.

Lascar Electronics, a leading provider of data logging and monitoring solutions, offers a comprehensive air quality product range that empowers organisations to proactively address environmental concerns. With cutting-edge technology and a commitment to excellence, Lascar Electronics continues to deliver innovative solutions for efficient and accurate air quality monitoring.

We understand that air quality monitoring needs vary across industries and sectors. That's why our product range caters to diverse applications, from indoor environments such as offices, schools, and healthcare facilities to outdoor settings like industrial sites and construction zones. By offering a wide array of devices, Lascar Electronics enables organisations to effectively monitor air quality parameters and take appropriate actions to ensure the well-being of their employees and the surrounding community. Our devices are equipped with state-of-the-art sensors capable of accurately measuring key parameters such as particulate matter (PM2.5 and

PM10), carbon dioxide (CO₂) levels, volatile organic compounds (VOCs), temperature, humidity, and air pressure. Our products undergo rigorous calibration processes to guarantee reliable and consistent performance, providing users with peace of mind knowing that their air quality data is accurate and trustworthy.

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

Lascar Electronics understands that effective air quality management requires comprehensive data analysis.

Our air quality product range seamlessly integrates with data logging platforms and software, enabling organisations to collect, store, and analyse air quality data over time. This integration allows for the identification of patterns, trends, and potential sources of air pollution. Armed with this knowledge, your organisations can make informed decisions, implement targeted interventions, and continuously improve air quality standards.

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

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