

Best Practice



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Sub contract Lapping and Polishing Services

Lapping is widely used as a process for achieving high levels of surface quality and precision in industrial manufacturing.

There are many advantages of lapping. It is used to correct imperfections in shape and produces a close fit between the mating surfaces. As it doesn't require the use of holding devices – such as a clamp, so no workpiece distortion occurs.

Lapping is extremely effective when surfaces that require absolute precision need to be produced and is the go-to method for achieving extreme flatness, parallelism, and surface finish as it goes far beyond any conventional machining methods. As the process is slow and controlled it enables the production of dimensions to achieve a very high degree of accuracy. As lapping can process a vast range of material types with minimal setup, it is also great for use on non-magnetic products and far outweighs grinding of non-ferrous materials.

Lapping is extremely accurate and is used across a wide variety of industries from aerospace to motorsport and nuclear. Lapping Services Ltd has been offering established sub

contract lapping and polishing services to clients for over 35 years.

Lapping Services Ltd deliver only the highest quality assurance and is proud to be the first UK company to carry AS9100 Rev D, as well as ISO9001:2008 accreditation:

- ▲ A capacity for diameters between 4mm and 700mm
- ▲ Thickness tolerance of +/- 0.001mm
- ▲ Parallelism tolerances of 0.001mm and finer achievable
- ▲ Surface finishes between 0.03µm Ra and 0.8µm Ra
- ▲ The flatness of 1-2 Helium light bands
- ▲ Non-magnetic and non-metallic parts processing without costly fixturing
- ▲ Results without clamping or chuck distortion

Moreover, the company also sells other products useful for the lapping/polishing process such as lapping oil, abrasive powders, lapping plates (all makes and models), conditioning/retaining



rings (all makes and sizes), and carriers/tooling for both single and double-sided applications.

Based in Leicestershire, Lapping Services Ltd manufactures out of its state-of-the-art facilities that is the result of increased investment and a vision for pairing excellent facilities with its own extensive expertise and flexibility.

To enable the company to provide such top-class lapping and polishing services that include: Four-way double-sided lapping, high-speed single-sided lapping, single-sided diamond polishing, single and double-sided pad polishing, it is committed to continuously invest in and improve its capabilities by adopting the most advanced techniques, efficient workflow management and highest-quality equipment.

T 01455 631707
enquiries@lapping-services.co.uk
<https://lapping-services.co.uk>

Modular Design Drives Innovation



The device connection clearly sets a signal for the future in terms of pluggability, as there is no comparable system on the market.

The special features of this new product all revolve around flexible and easy assembly. This is achieved by double conductor connections equipped with a push-in spring, the option of prefabricating the components separately and, last but not least, the suitability for automatic wiring. This means that installations with a high protective rating are simplified significantly and can be tailored individually to any application.

MOLA® has been particularly optimized with luminaire manufacturers in mind, but is also suitable for installation in other areas of application. Applications such as motors, heaters, and controllers in



general can also benefit from the flexibility of this connector. MOLA® is available in a 2-, 3-, 4- and also 5-pole version and is designed for through-holes with 20 mm, which simplifies conversion to MOLA®, thus covering a wide range of projects and applications.

The modular design ensures that, as already stated, the internal cable harness and housing can be prefabricated separately. For special requirements, an optional contact seal can also be used to increase protection against moisture ingress, so that MOLA® can be used without any problems even under the most adverse conditions.

www.wieland-electric.com

The British Adhesives & Sealants Association

(BASA) launches a new awards programme with a gala event in November



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

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

"Sustainability and Innovation is really important to BASA and formally recognising our member companies' achievements

and excellence in these and a number of other areas is an exciting development," says Lorna Williams, BASA CEO. "We are looking forward to maximum engagement and of course we look forward to receiving members' entries and seeing everybody in November!"

If you are interested in sponsoring the event, please contact us.

The event, to be held at East Midlands Conference Centre, Nottingham on 22nd November, will be hosted by comedian Jimmy McGhie and will include dinner and entertainment. Tickets are now available for purchase online; please visit the BASA website for details under the BASA Awards Night button on the homepage.

Contact Lorna Williams,
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British Adhesives & Sealants
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Editor's Notes

Liz Dickinson
Editor



Welcome to our latest issue of Best Practice. With more of us now returning back to the workplace, it's important for staff to have access to on-site refreshments. Keeping staff hydrated all year-round ensures optimised energy and concentration and having staff breakout areas, for team breaks improves workplace morale.

Award-winning Coinadrink Ltd is a leading supplier of workplace hot drinks, vending, fresh food, micro-market and water cooler solutions. The West-Midlands based company offers a one-stop shop for workplace refreshment solutions for a diverse range of industries including: manufacturing, automotive, logistics and more recently, legal and financial. Coinadrink wins our Product Innovation Award for Outstanding Refreshment Solutions on [page 21](#).

Sustainability is a key driving force across the industry. We wish to extend our congratulations to Christeysn Food Hygiene for achieving the EcoVadis Gold Medal for commitment to sustainability and responsible business practices. Read more on [page 18](#).

Sticking with the sustainability theme: check out Davies Turner on page 9- the freight forwarding and logistics company runs a dedicated rail import service from China to the UK. Not only does this prove quicker and more cost-effective than air freight but the carbon footprint is lower too.

Drone technology is now integral to many sectors. On page 19, find out how a drone survey carried out by Lanes Group plc enabled a major manufacturer to investigate the drainage system on one of its sites, in preparation for future development. The unmanned aerial vehicle (UAV) survey gave a highly detailed digital map of the factory site, allowing engineers to plot drainage assets with pinpoint precision.

Have any news to share?
Email: liz@bestpracticeuk.co.uk

BASA

British Adhesives Sealant Association

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

See page 01



Download our iOS app here





Gold & Wassall Hinges

Launches brand new website

Gold & Wassall Hinges has established itself at the forefront of the industry since its inception over 200 years ago. With its manufacturing facilities situated in Tamworth in Staffordshire, Gold & Wassall provides an impressive range of services for design, production and manufacture of hinges, all produced in house and distributed throughout the whole of the UK. Boasting an enviable reputation within the industry, the company has positioned itself firmly as the UK's number one manufacturer of hinges.

Gold & Wassall has provided its services to various customers throughout its years in operation and serviced customers from construction to engineering companies. With a proven track record of quality, reliability and durability, Gold & Wassall ensures it maintains complete control over the design and high quality of its goods.

We asked Scott Bareham Sales and Marketing Manager at Gold & Wassall what makes the company stand out and how would he describe its services.

"All our hinges are manufactured in house, in our purpose-built facility in Tamworth, Staffordshire. We have been manufacturing hinges for over 200 years using a mixture of tried and trusted methods along with modern technology. Our offer of a bespoke hinge service enables us to manufacture any hinge for any application, and as we have over 200 years' experience, we are greatly knowledgeable in what we do. Our services portray the highest quality ensuring each product goes through a rigorous testing procedure and receives the upmost attention to detail. We pride

ourselves on our customer service and treat every customer fairly and with respect."

In keeping with the company's goal of providing unrivalled customer service, Gold & Wassall also provides an abundance of finishing options for its customers. The company is dedicated to providing not only durable, high-quality hinges, but also to understanding the importance of an aesthetically pleasing, customised design. In light of this, the company is able to customise colour, add branding and create a smooth premium finish to all products. Gold & Wassall Hinges' array of finishing options are the perfect complement for its hinges to create a smooth premium finished look.

Going into 2024, Gold & Wassall is proud to announce the launch of its brand-new website.

"The new website has been a long-term project. Initially, the website needed updating for technological and security reasons, however we thought it would be a good idea to give everything a freshen up. As well as detailing all of the usual information, we have also now made it possible to download CAD drawings and 3D models of each hinge. Furthermore, we have introduced our new "Hinge Finder" which allows the user to narrow down suitable hinges based on their required dimensions. This will help customers utilise our full range of hinges, showing hinges that they might not have found or considered previously," added Scott.



On the website you will find their complete range of hinges from continuous/piano hinges, butt and backflap hinges and standard, to heavy duty and bespoke made to order hinges. Using the company's automatic section which contains eight lines of automated machines, Gold & Wassall is able to make hinges quicker and to almost any length. The company also maintains the specialist tooling for these machines which can complete multiple operations in each press.

Please note: Gold & Wassall is the only hinge company whose hinges are UK made and all of Gold & Wassall Hinges' stock is available for immediate dispatch.

As a new year begins, we asked Scott what in store for the company in 2024 and beyond.

"In 2024, we hope to continue to strengthen following the pandemic and period of economic uncertainty. We are also looking to expand on our growing relationships with overseas customers as well as further grow our UK customer base."

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sales@goldwassalhinges.co.uk
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 Special Purpose Hinges




Gold & Wassall are the UK's No 1 manufacturer of hinges.

We provide a fully comprehensive manufacturing service, which enables us to offer any hinge, for any application.

All our hinges are manufactured at our premises in Tamworth, UK.
 We have a huge stock range, all of which are available for immediate dispatch.

As well as our huge stock range, Gold & Wassall also offer a number of bespoke solutions which can be tailored to any application. Our ability to produce bespoke hinges is a cornerstone of our operation, we have manufactured over 250,000 unique hinges and counting. From the smallest delicate designs to the largest complex components, we have tackled endless challenging projects.





Telephone **01827 63391**
 Email **sales@goldwassalhinges.co.uk**
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Control Station leads the process analytics field, offering monitoring, diagnostics, and optimisation solutions to global manufacturers. Our goal is simple: empower manufacturing excellence by improving production efficiency and throughput, and control loop performance across industries.

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Boss Products UK

Boss Products announces the official establishment of Boss Products UK, a company member of the Boss Industrial Group.



Located in Strathaven, Scotland, they are strategically positioned to serve clients throughout the United Kingdom and the Republic of Ireland.

This exciting new chapter allows the company to forge international partnerships and expand their reach, ensuring that manufacturing facilities in these regions have access to the safest and most innovative fire and explosion solutions available.

Their extended range of offerings now includes the cutting-edge Vigilex Explosion Protection Systems, Boss Process Compression Couplings, VDL Industrial Products and the Raptor Spark Detection and

Extinguishing Systems. With operations commencing on October 1, 2024, Boss Products UK invites you to explore the exciting opportunities this development presents.

Boss Products supports industrial filtration and bulk material handling systems with a full line of integrated Fire and Explosion Mitigation solutions- including Prevention, Isolation, Diversion, and Venting.

Together, we can create a safer working environment, ensuring that your operations remain compliant and secure.

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Explosion protection





Spark detection and extinguishing



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you can be sure of its technical excellence and reliability.

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to conduct an occupational noise investigation, or a Class 1 Sound Level Meter for an environmental noise survey, you can be sure that Cirrus Research has an instrument to meet your needs.

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Cirrus Research plc

Cirrus Research plc; leaders in noise monitoring for more than 50 years.

Cirrus Research plc is a globally recognised leader in the design, manufacture, and distribution of noise and vibration monitoring solutions.

Since its establishment, Cirrus Research has committed itself to providing innovative and reliable products and services that address the evolving needs of monitoring and measuring varying impacts across a plethora of sectors.

This dedication has positioned Cirrus Research

as a pivotal player in promoting health, safety and environmental sustainability worldwide.

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

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



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

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RMIG SOLUTIONS

Passion for perforation



Industrial Processing

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

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

Another area of Industrial Processing is medical and pharmaceutical, where RMIG Solutions' perforated materials are able to give firm tolerances during their manufacture, and are well suited for use in sterile environments.

RMIG Solutions' perforated products also have numerous uses in the petrochemical sector, from industry specific applications such as filtration, to oil and gas exploration, as well as more general applications such as walkways in processing plants.

Bridge slot

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

The bridge slot opening size determines the products that can be dried, which range from fine oilseed rape through to larger grains and cereals, as well as logs and wood chip drying.

Food Processing

RMIG Solutions' 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 Solutions' 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 Solutions' perforated materials can be customised for each application.

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



Oliver Valves

Oliver Twinsafe Delivers Impressive 12" Class 1500 Super Duplex Valves for Shell Jackdaw Platform



Oliver Twinsafe is proud to announce the completion of a major project for the Shell Jackdaw platform in the North Sea, delivering two substantial 12" Class 1500 Super Duplex valves. These valves,

designed under our reference OTS3774, are a testament to Oliver Twinsafe's commitment to engineering excellence and high-performance solutions for demanding environments.

Equipped with Rotork electric actuators and limit switches on both isolates, the valves provide precise control and optimal reliability, key to the smooth operation of the Shell Jackdaw platform. These robust valves were designed to meet the most stringent standards in the industry, including full Design Validation Testing (DVT) and compliance with Shell's rigorous MESD SPE 77/300A requirements.

The valves, crafted from Super Duplex materials known for their superior corrosion resistance and mechanical strength, are built to withstand the extreme conditions of the North Sea. This project is particularly significant due to the size and complexity of the valves,

which are far beyond standard pipeline components.

Carl Widdowson, Oliver Twinsafe's Supply Manager, shared his thoughts on the achievement:

"Delivering these 12" Class 1500 Super Duplex valves for the Shell Jackdaw platform was a complex but highly rewarding project. It highlights our team's technical expertise and our capability to deliver solutions that meet Shell's exacting standards. These valves are a true example of Oliver Twinsafe's commitment to quality and reliability."

The successful completion of this project further solidifies Oliver Twinsafe's reputation as a leader in the subsea valve industry. With the new valves now in place, Shell's Jackdaw platform is well-equipped to handle the demanding operational environment of the North Sea, ensuring safety, efficiency, and longevity.

As Oliver Twinsafe continues to innovate and deliver large-scale valve solutions, we look forward to supporting more landmark projects in the global energy sector.

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www.valves.co.uk

Oliver Valves

Oliver Valvetek Invests in Cutting-Edge CNC Lathe Technology for Subsea Ball Valves

Oliver Valvetek is proud to announce a significant investment in our manufacturing capabilities with the addition of a state-of-the-art mini CNC lathe.

This new equipment, specifically designed for 3/8 and 1/2 " subsea ball valves, enables us to achieve even more consistent, automated production outcomes while enhancing safety and efficiency.

The automation provided by this CNC lathe results in improved precision, reduced lead times, and superior quality in our final products. This investment demonstrates our ongoing commitment to innovation and delivering the best possible solutions for our customers.

Lewis Hendrik, Oliver Valvetek's Works Manager, commented, "This new CNC lathe is a game-changer for our subsea ball valve production. It's allowed us to refine the manufacturing process, ensuring more

consistent quality while boosting safety on the shop floor. The end result is a product that exceeds expectations."

This latest investment continues to strengthen Oliver Valvetek's position as a leader in subsea valve technology.

To find out how Oliver Valvetek can meet your subsea project valve requirements, contact us by telephone +44 (0)1565 632 636, email us at sales@valves.co.uk or visit our website www.valves.co.uk.



Paramount Waste and Dust Extraction

A new machine arrival and machinery moves prompts scrutiny of waste extraction system performance and ducting redirection at high quality print house.

Digital printing comes with benefits in quality, speed and a reduction in waste produced. A well-designed waste extraction system will usually cope with minor changes in quantity and location of printing machinery if unused ducting is left uncapped.

A detailed survey revealed a customer's system running fast before ducting redirections and removal. Our calculations promised energy savings after modifications and rebalancing.

Case study benefits: Tidy roof space, Customer recovers 5 x job cost in one year, fan energy costs almost halved.

A detailed Waste System Survey can find out if, where and why a system is not operating effectively and efficiently. Modifications can rebalance a system ensuring continued smooth operation and,



occasionally, energy savings and carbon footprint reduction.

If you suspect your Waste Extraction System is not running at it's best due to age, modifications, additions and subtractions, contact Paramount Waste and request a survey.

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How pallet live storage keeps grocery store shelves supplied

An innovative Pallet Live Storage installation can play a key role in supporting grocery retailers as they strive for market leading growth, according to Edward Hutchison, Managing Director of BITO Storage Systems.

Providing up to 50% more storage capacity than traditional racking on the same footprint, a Pallet Live Storage (PLS) system can contribute significantly to accommodating sufficient stock to help grocery retailers meet growing demand.

Supporting a retailer's need to maintain customer service in tandem with achieving sales growth is one of the biggest challenges placed on a distribution centres (DC), particularly when it comes to handling the sheer volumes involved and fast turnaround required by everyday bulk stock lines, such as soft drinks.

Pressure intensifies when these lines experience peaks, such as during a hot summer – particularly in large cities or on the coast. If one store runs out of soft drinks on a very hot day, there's a good chance that others in the region will experience a similar issue. All will want more but storage limitations mean there's

a chance that not every store will get the amount they require, which will impact negatively on the grocery retailer's level of customer service.

Maximising the amount of storage that can fit within the constraints of a DC, to provide efficient order fulfilment for retail stores, will help to avoid such situations. For those grocery DCs that need greater flexibility to meet a variety of demands from customers within a limited space, PLS offers a dense storage and order picking system that contributes to innovative, efficient and agile grocery logistics operations.

On a relatively small footprint, pallets can be located 'in the air' on several levels of inclined roller lanes, with delivery lanes for pallet loads of bulk stock lines – such as soft drinks – on the ground floor. This provides dense storage and rapid access to orders.

The flexibility in such a design allows products that need to be sent immediately to stores to be picked directly from the flow lane and transported to Goods Out.

If the ground floor delivery lanes are



getting close to empty, then stock stored in the lanes above can be brought down and pushed through to the other side of the lane for order pickers to continue their pick. Operating on the FIFO (First In First Out) principle, PLS ensures product rotation, which is important for grocery store replenishment, ensuring the first product sorted by the 'best before' date is picked. A further benefit is that PLS can accommodate seasonal items on the flow lanes in the upper levels, allowing the grocery DC to take advantage of quiet time to get those products out to stores early.

For further information on pallet live storage, please visit: www.bito.com



MJE PROJECTS



Innovative Conveyor Solutions for Every Industry

MJE Projects Limited is a family-run mechanical engineering firm based in Nottingham. With over 40 years of experience, we specialize in designing, manufacturing, and installing a wide range of conveyor systems.

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In addition to our installation services, we also offer comprehensive maintenance and support for existing conveyor systems.

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Leading the way towards sustainable logistics

Davies Turner is a well-established freight forwarding and logistics company based in the United Kingdom. Founded in 1870, Davies Turner has a long history of providing transportation and logistics services, making it one of the oldest independent freight forwarding companies in the UK.

Davies Turner was one of the first economic operators in Europe and has evolved to become a leading global powerhouse in the freight forwarding industry.

Davies Turner, a family-owned enterprise, boasts a network of 23 branches across the UK, several of which are equipped with expansive warehouses. Located in Coleshill, its headquarters serves as the epicentre of its operations. Recently, the company unveiled a state-of-the-art multi-user fulfilment centre and logistics hub in Atherstone, Warwickshire. This cutting-edge facility spans across four levels, each housing 35,000 square feet of space, and boasts an impressive capacity of 20,000 pallet locations. Additionally, the Rotherham site in South Yorkshire stands as a testament to the company's regional presence, featuring offices staffed by experienced professional's under the adept leadership of Branch Manager, Andrew Ford.

"We specialise in the more awkward and out of gauge shipments that our competitors might not have the same experience with. Over the years, this has included vehicles and machinery of all shapes and sizes and even small rail engines. We can help with shipping anything out of the ordinary that may need a special licence and enjoy the challenge of shipping more unusual items!"

Davies Turner is the only freight forwarder running a regular dedicated rail import service from mainland China into the UK, which is a lifeline for many UK businesses. The express freight rail service departs weekly from Xian in Central China for groupage and full load



shipments. With concerns around the slower speed of ocean shipments and high cost of air freight, rail offers a cost-effective, reliable freight service. The LCL rail freight service takes just 19-23 days from terminal-to-terminal which is on average, 70% cheaper than air freight.

In alignment with the UK Government's ambitious 2050 Net Zero targets, businesses are urged to embrace transparency regarding their annual carbon emissions. Recognising the need for sustainable practices, Davies Turner is leading the charge towards a greener future. Leveraging the efficacy of rail transportation as a more environmentally-friendly alternative to air shipments, the company is committed to reducing its carbon footprint.

For instance, consider the stark contrast in emissions: A 40-ft container laden with 20 tons of cargo generates a mere 4% of the equivalent CO₂ emissions when transported by rail compared to air shipment. Embracing this ethos, Davies Turner has embarked on a transformative journey, forging a partnership with Pledge to meticulously track and report all company carbon emissions.

This strategic collaboration not only underscores Davies Turner's dedication to environmental stewardship but also empowers clients with a tangible means of quantifying and addressing carbon emissions across international supply chains. By embracing such initiatives, the company and its clientele are poised to make significant strides towards achieving Scope 3 emission targets and fostering a more sustainable future.

With the ongoing conflict in Ukraine, disrupted shipping market in the Red Sea and Panama Canal, and sporadic port strikes, many businesses have faced huge shipping delays over recent months.

"With many volatile hot spots around the world currently, we monitor situations closely on behalf of our customers. Having a regular Chinese rail service that navigates deftly round the Red Sea Shipping crisis, keeps supply chains running across the world. To reiterate this point, last December a customer asked to trial a rail shipment with us from Shanghai to the UK, alongside a pre-existing ocean shipment from the same route with a different company. The results were conclusive: the rail shipment took 18 days terminal-to-door, whereas the ocean shipment took 45 days and also ran over the estimated time schedule," said Andrew.

Davies Turner has built a strong reputation as a trusted partner for businesses seeking efficient and cost-effective logistics solutions in the UK and beyond. With a focus on sustainability, and its reliable and trusted customer service, it comes as no surprise that Davies Turner was named Number One Logistics Service Provider by Logistics Manager Publication in December 2023, in its annual list of the Top 50 UK logistics service providers. One of the key metrics for this decision was the 74.4% increase in turnover for the financial year, ending in 2022, with a record turnover of £350.6 million. Alongside the exclusive new opening of the £40 million state-of-the-art logistics hub in Atherstone, this is a very exciting time for Davies Turner.

For all Air, Sea, Rail and Road freight quotations and further information, please see the details below:
T 01709 529709
rotherhamsales@daviesturner.co.uk
www.daviesturner.com/specialist/rotherham-specialists



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

A passion for Innovation

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

The spirit of our staff

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

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

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

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

We are advancing progress

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

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

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

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

Modularity offers a cost benefit

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

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

Ease of operation

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

The right decision

ECO PHYSICS AG established a worldwide network and

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

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

Stand-alone instruments or as part of a system, let us help you to find your best possible measurement solution.

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RS232 Communication <https://www.youtube.com/watch?v=WYjPZdleGZQ>

Analog In/Out <https://www.youtube.com/watch?v=dlj6f5NM-Pk>

ECO PHYSICS nCLD "Facelift" boxed solutions

AL, AL², EL S, EL, EL²



Compact analyzer with external or integrated pump

"Toggle mode" NO₂-feature for One-Channel instruments

Intuitive graphical user interface

Internal data logger and status recorder

Remote operation/control, Power DOWN/UP

USB, HDMI, LAN/WLAN, Bluetooth, RS-232, Analog I/O

Measurement of:

NO • NO₂ • NO_x

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

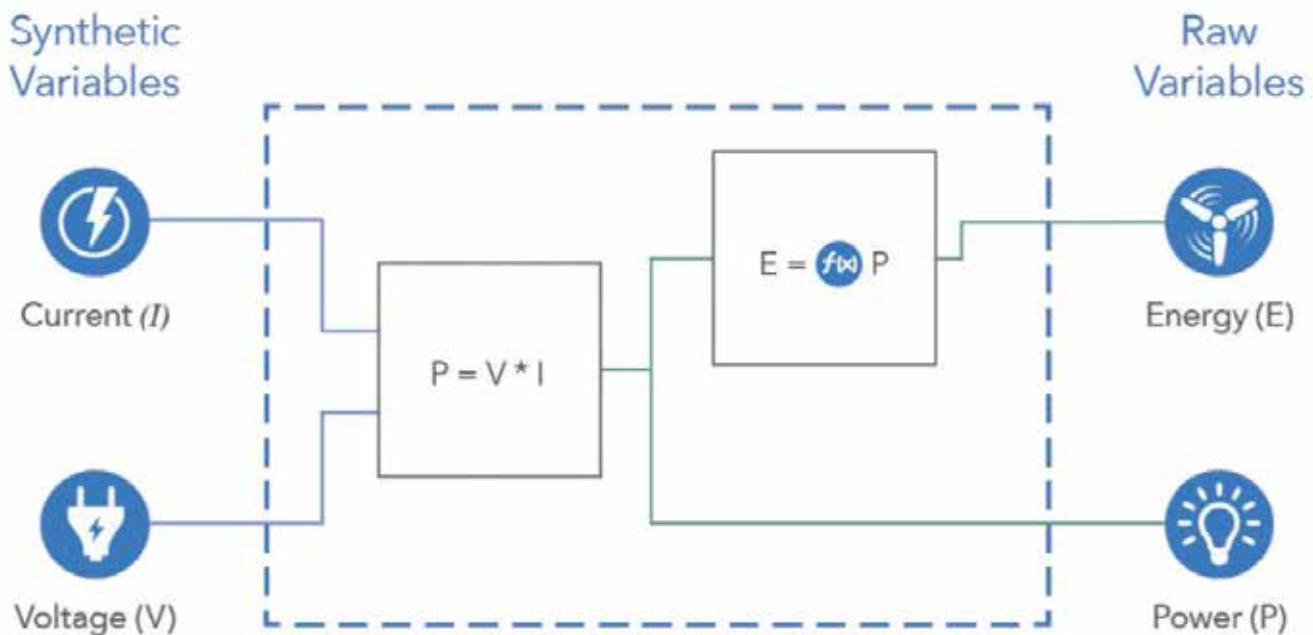


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Streamlining safety and compliance inspections for machinery OEM's, end-users and safety consultants

UK machinery safety

Machinery safety is a top priority across all industries to safeguard safe working practices. Despite best safety practices, HSE reported that tragically 135 workers were fatally injured at work during 2022/2023 (RIDDOR), with construction, agriculture/forestry/fishing and manufacturing reporting the highest fatalities. Machine hazards in manufacturing can range from machine guarding, electrical hazards, poor maintenance, mechanical hazards, to equipment malfunctions, and many more, with the onus placed on companies to become more stringent with the health & safety and regular inspections of machinery operations.

The dreaded internal safety inspections

Automated assembly lines have now become standard practice across many warehouse and distribution, manufacturing and food & beverage companies, freeing up staff to carry out other important tasks. Needless to say, one area that hasn't changed much is the dreaded 'inspection clipboard,' with lots of tick boxes. It can often be a cumbersome job but putting it off can cause machinery failure, leading to costly downtime and in worst case scenarios, injuries or fatalities.

But what if there was another option?

Introducing MachineSafe safety and compliance software

The MachineSafe safety and compliance software platform has been designed to fit a gap in the market for the inspection process by machinery safety engineers. With a rich background in conducting PUWER inspections, UKCA Marking, CE Marking and Machinery Risk Assessments, the MachineSafe engineers used this expertise to develop the platform. Managing Director, Jon Rowen is a member of the BSI Safeguarding of Machinery Committee and is well versed in the mechanics of machine safety protocols.



Benefits of MachineSafe

We spoke to Jon to get a further insight into the benefits of MachineSafe for end users, "Our web and tablet-based platform affords optimised safety and compliance inspections of machinery and equipment across industries such as warehouse and distribution, manufacturing and food and beverage. The platform takes away the burden of inspections, which is a pain point for many companies across the UK. It is perfect for OEMs, machinery end-users and consultants who need timely machinery inspections and audits for stakeholders or customers, even for auditing new machinery at the manufacturers before it is shipped to your company."

"With inspection modules such as: Provision and Use of Work Equipment Regulations Assessment (PUWER), Risk Assessments, New Machinery Audits, MachineSafe Audit, CE/UKCA Marking, electrical, pneumatic and hydraulic systems. Users can also add their own inspections to the MachineSafe platform for their own use."

User-friendly and streamlined

The MachineSafe app can be easily downloaded from Google Play but for companies who would like more information, there are Zoom demonstrations, followed by in-person ones if required.

Following assessments and inspections, the data can be switched to a Cloud Platform and pdf reports can be printed, for ease and convenience.

That's not all.

MachineSafe offers training for upskilling teams on PUWER inspections, risk assessments and compliance support, as required.

"PUWER (Provision and Use of Work Equipment Regulations) places duties upon individuals and companies who own, operate or control work equipment. PUWER also places responsibilities on businesses and organisations whose employees



use work equipment, whether owned by them or not. The purpose of a PUWER inspection is to identify whether the equipment can be operated, adjusted and maintained safely and that any deterioration (for example, any defect, damage or wear) can be detected and remedied before it results in unacceptable risks."

"The MachineSafe PUWER module is available as a stand-alone module or is included in our Enterprise subscription is the ideal tool to manage and document your PUWER inspections."

"All MachineSafe subscriptions include all the core inspection modules, with templates available at the touch of a button. End-users can simply choose the subscription package that suits their requirements. The platform latest release now includes UI enhancements, Improved inspection templates and CE/UKCA marking plugin and our engineers are constantly looking at how to improve the platform going forward." concluded Jon.

The age of technology

Industry 4.0 pushed advancements in automation, robotics, smart systems, AI, machine learning, big data analytics and IoT across many industries. The advent of Industry 5.0 however, is all about placing worker wellbeing at the epicentre of production processes and using new technologies to provide prosperity beyond jobs and growth while respecting the production limits of the planet. For many industries, this could translate to technology 'freeing' up staff to carry out other important tasks and MachineSafe is at the forefront of streamlined inspections, placing workers at the heart of safety.

For more information or to request a demo today, please see the details below:
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Robust steel housing for rough ambient conditioners

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

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

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



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

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

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

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

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



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

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

Digital twin for machine safety

Schmersal to showcase 4D model for safety components for the first time at SPS in Nuremberg

Schmersal is set to showcase a 4D model of its safety components for the first time at SPS 2024 – Smart Production Solutions – in Nuremberg, stand 460, hall 9: a digital twin of the AZM40 solenoid interlock and the DHS door handle system. In addition to the three-dimensional representation (3D), the virtual image simulates all properties and functions of the physical devices as a fourth dimension (4D). If, for instance, a guard door is unlocked using the real button on the door handle, the LEDs on the digital twin light up in the same way as on the physical counterpart.

This makes Schmersal one of the very first companies to develop a digital twin for safety components.

The Schmersal Safety 4D model simulates not only individual components, but also complete process and control sequences using virtual mapping of signal flows. The benefit: In addition to early fault detection and optimisation, the 4D model will also aid with virtual machine commissioning in the future, even before the real machine has been mechanically assembled. This will help to save costs and reduce unnecessary development loops. In future, it should also be possible to monitor the components as a prerequisite for predictive maintenance

'Our plan is to offer the Schmersal Safety 4D model to customers as a future service, e.g. via our website or via the online store for 4D models 'TwinStore' – a platform on which component and system suppliers can

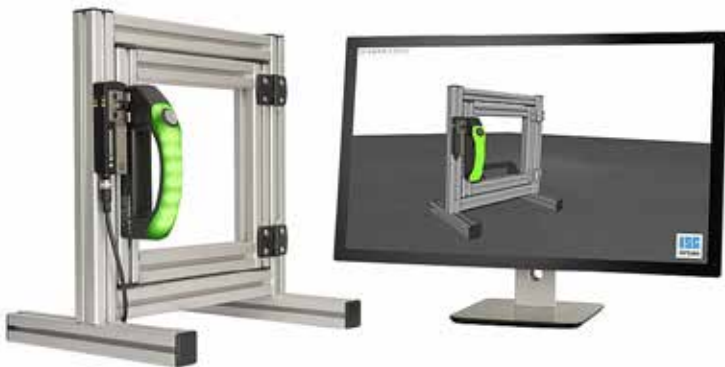


make their digital twins available,' explains Volker Heinzer, Strategic Product Manager for Programmable Electronic Systems and Industry 4.0/IIoT at the Schmersal Group. To this end, there will be a range of successive digital 'model catalogues' containing the 4D models of Schmersal products.

Schmersal is using the 'ISG-virtuos' simulation software from ISG Industrielle Steuerungstechnik GmbH for the Safety 4D model. The CPU-intensive simulation model is computed on the ISG real-time target. This powerful yet ultra-compact industrial PC enables loss-free real-time physics simulation. It represents the complete machine or system from the point of view of the control system, is mobile thanks to its compact dimensions and can also be installed inside the switch cabinet.

Visit Schmersal at SPS – Smart Production Solutions – in Nuremberg, hall 9, stand 460, between 12th and 14th November 2024.

www.schmersal.com/en/home





The Spotlight is on Watsons Anodising Ltd

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samos PRO COMPACT makes it quick and easy to implement safety functions

Given how quickly technology is developing, machinery safety is now a crucial component of occupational health and safety, and it will only get more so in the future. This calls for systems where safety features may be easily created and added to the application.

The samos PRO COMPACT starter kit from Wieland Electric fills this need. It includes the safety control device, an SD card, a network and USB cable, and the samos PLAN safety software. This enables straightforward customisation of safety features without complex programming and efficient use of a powerful control system in small spaces.

Maximum security in the smallest space

The primary module, which has 16 safe inputs and outputs and is only 45 millimetres wide, combines flexibility and safety in one device. The compact design saves space in both the control cabinet and the storage area. At the same time, the samos PRO COMPACT supports up to 12 digital I/O modules. Integrated Ethernet protocols enable connectivity to a standard controller or a user interface. In addition to the Ethernet interface, the safety controller has mini-USB and SD card ports. This allows the machine



to be programmed flexibly. At the same time, software may be readily copied or exchanged. This greatly accelerates commissioning and reduces machine downtime.

The starter kit also includes a network cable and a USB cord. This guarantees that the devices communicate effortlessly and data is transferred efficiently. The application software is easily stored using the supplied SD card.

Parameterise safety functions easily

Wieland Electric's samos PLAN 6 features powerful programming software. The user-friendly programming tool provides a vast library of TÜV-certified function blocks that provide common, application-specific safety features. Simple drag and drop handling - true to the motto "parameterisation instead of programming" - significantly reduces engineering effort, project planning time, and the possibility of errors.

www.wieland-electric.com



Sub contract lapping and polishing services

Lapping Services Ltd specialises in sub-contract lapping and polishing, we aim to synchronise seamlessly with your production schedules, ensuring swift turnaround time. Holding AS9100D accreditation our capabilities encompass precision machining, and intricate dimensional accuracy for thickness, flatness, parallelism and surface finish. Our clients benefit from our adeptness, realising significant time and cost savings. With state-of-the-art facilities and a legacy of proficiency, we stand poised to exceed expectations, offering competitive pricing and a comprehensive array of processing options.

Lapping offers several advantages over conventional CNC machining methods:

- **Accuracy:** Lapping can achieve extremely high levels of flatness, parallelism, and surface finish, often surpassing what's achievable with conventional machining methods. This is particularly beneficial for components requiring tight tolerances.
- **Uniformity:** Lapping produces consistent results across the entire surface of a workpiece, ensuring uniformity and minimising deviations. This is critical for parts that require precise dimensions and surface finishes.
- **Versatility:** Lapping can be applied to a wide range of materials, including all metals, ceramics, plastics and even super alloys like Inconel and Titanium. This versatility makes it suitable for various industries and applications.
- **No Thermal Damage:** Lapping operates at low speeds and temperatures, eliminating the risk of thermal damage or work hardening to the workpiece. This is particularly advantageous for materials sensitive to heat, such as certain alloys or composites.
- **Cost-Effectiveness:** While lapping may initially require specialised equipment and tooling, it can be more cost-effective than machining for certain applications, especially when considering the high precision and surface quality achieved with minimal material waste.

Capabilities

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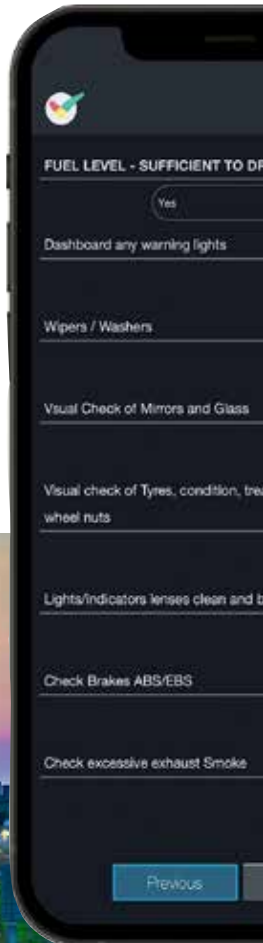
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How CheckedSafe's bespoke software helps Network Rail stay safe



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

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

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

With this partnership, CheckedSafe is not just helping Network Rail adjust to

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

The demand for a monumental partnership

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

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

After almost four years of meticulous planning, bespoke software

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

The importance of compliance and safety

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

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

"This collaboration isn't just a big



project for us; it's an ever-evolving and unique partnership. Fundamentally, it's about changing driver behaviour to ensure our roads are the safest they can be."

How does CheckedSafe encourage fleet safety?

The CheckedSafe app effortlessly allows fleet operators to:

▲ Gain insight into their fleet

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

▲ Identify vehicle defects in real-time

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

▲ Schedule vehicle maintenance with ease

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

minimising downtime and ensuring that vehicles are in peak condition.

▲ Conduct remote driving licence checks

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

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

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

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

These include:

▲ NFC Keyring System

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

▲ Greater fleet segmentation

Meanwhile, CheckedSafe have also created bespoke API software that

provides Network Rail with greater segmentation and insight into their nationwide network of vehicles - as well as numerous other bespoke features.

Sustainability

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

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

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

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

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

Visit www.checkedsafe.com





Christeyns Food Hygiene Wins Gold Medal for Sustainability

Christeyns Food Hygiene has been awarded the prestigious EcoVadis Gold Medal for its commitment to sustainability and responsible business practices.

EcoVadis is the world's largest and most trusted provider of business sustainability ratings, creating a global network of more than 130,000+ rated companies.

It evaluates companies' sustainability performance across various criteria. This Gold Medal achievement for Christeyns Food Hygiene underlines the firm's dedication to environmental stewardship,

labour practices, ethical conduct, and sustainable procurement.

As part of the evaluation performance, the business is meticulously assessed across these categories, with evaluation of company policies, procedures, and key performance indicators (KPIs).

This places us in the top 5% worldwide of companies recognised with this esteemed award.

Warrington-based CFH manufactures premium hygiene products and along with its partners supplies solutions for the safe cleaning and disinfection of food and beverage plants and food retail businesses across the country. Recognising the critical role that cleaning and disinfection protocols play in upholding food safety management systems, the firm is committed to enhancing clients' operations whilst leading the sector in sustainable business practices.

"At Christeyns Food Hygiene we have long been conscious of the impact that our products and services have on the




environment and on our customer's operations," states Chris Bayliss, CFH UK Sales Director. "This award is recognition and validation of the long-term efforts we have in place to ensure and support food safety and hygiene in our customer's sites in a sustainable way for now and the future."

Christeyns Food Hygiene is part of the international hygiene group, Christeyns, with headquarters in Ghent, Belgium.

The group has subscribed to the Responsible Care Global Charter committed to a corporate leadership culture that safeguards people and the environment, strengthens chemicals management systems, influences business partners, promotes safe management of chemicals, engages stakeholders and contributes to sustainability. The company has also signed up to the UN Global Compact initiative.

<https://www.christeyns.com/uk-en>

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UAV survey lands data and cost benefits for factory owner

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

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

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

Significant cost saving

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

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

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

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

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

Eliminates site disruption

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

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

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

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

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

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

possession time."

Flexible data analysis

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

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

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

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

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

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

T 01708 528770

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Oriental Motor

Introduces the Innovative Battery-Free Absolute range of Servo Motors

Oriental Motor, a leader in precision drive technology, has announced the launch of the AZX Series, an advanced range of high-precision servo motors. The AZX Series promises unparalleled performance and flexibility, catering to a wide range of industrial applications where precision and reliability are paramount.

The AZX Series is designed to offer the precision and reliability of advanced servo motors. With superior control and feedback features, the AZX Series is an ideal solution for applications requiring precise movement and high torque at high speeds. This makes it perfect for demanding industrial environments where accuracy and performance are critical.

Key Features of the AZX Series include:

- ▲ Battery-free absolute encoder: the AZX Series is equipped with Oriental Motor's patented ABZO sensor, a mechanical-type multi-turn absolute sensor that retains positioning information even when powered off. This eliminates the need for external sensors and batteries, reducing maintenance and operational costs.
- ▲ High torque and speed: the AZX motors deliver high torque at high speeds, making them suitable for positioning applications

with extensive travel, such as ball screw or belt driven applications. The motors achieve superior performance in the high-speed range compared to conventional models.

- ▲ Ease of integration: the AZX Series maintains the same basic operations as the existing AZ Series, allowing for seamless integration into existing systems. This compatibility extends to network-compatible drivers that support EtherCAT, EtherNet/IP and ProfiNET, simplifying wiring and reducing installation errors.
- ▲ Enhanced positioning and control: the AZX motors feature built-in positioning operation functions and various sequence capabilities, which can be configured using the MEXE02 support software. This simplifies the programming and enhances the operational flexibility of the host system.

Applications and benefits include the fact that the AZX Series is designed for long-term reliability without the need for complex tuning. This makes it ideal for diverse applications across industries such as medical, automotive, and food processing.

It's also a very cost-effective solution. By eliminating the need for batteries and reducing wiring requirements, the AZX Series offers a cost-effective alternative to traditional



servo and stepper motors. Last but not least, following the kaizen principle of continuous improvement the AZX Series reflects Oriental Motor's commitment to innovation and quality in precision drive technology.

Pierce Ferris, UK Divisional Manager at Oriental Motor, comments: "The launch of the AZX Series is a significant milestone for us. It provides our customers with enhanced flexibility and performance, allowing design engineers the option to utilise both stepper and servo technologies. The battery-free design and high torque capabilities at high speeds make it a versatile and cost-effective choice for a wide range of applications."

Visit us at <https://www.orientalmotor.eu/uk/>

Intelligent ventilation systems

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



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

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

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

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

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

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

The right rotor choice

Key to efficient process performance

Precision and efficiency are essential in the dry bulk solids handling industry, which is why DMN-WESTINGHOUSE offers 8 distinct rotor options for rotary valves. Each rotor is designed to enhance process performance and safety. The correct rotor boosts reliability, ensures hygienic handling, and improves product flow in diverse applications.

How the correct rotor impacts performance

Selecting the right rotor is vital for efficient rotary valve operations. Beyond regulating product flow and dosing materials, the right rotor prevents expensive downtime.

In demanding environments where wear resistance and corrosion protection are crucial, a well-matched rotor to the application reduces maintenance costs and optimises long-term system and production reliability. Let's look at DMN-WESTINGHOUSE's 8 unique rotor solutions.

Key rotor options for diverse needs

1. Fixed Vanes: An all-round component ideal for powders and granules, offering stable flow with reduced friction. Suitable for pharmaceutical, food, and chemical industries.
2. Replaceable and Adjustable Blades: Flexibility to replace blades easily without

dismantling the entire rotor. Suitable for abrasive or sticky materials.

3. Resilient Edge: Reinforced blades specifically for wear resistance, reducing air leaks and extending rotor life in heavy-duty applications.
4. Semi End Disc with replaceable and adjustable blades: Offering added protection against wear, it's perfect for abrasive materials, with easy blade replacement without rotor disassembling.
5. End Disc Fixed Vanes: Explicitly designed for palletised products, minimising end cap wear.
6. Reduced Capacity Closed End: Handles challenging materials - stickiness or particle size - with improved transport accuracy.
7. Scalloped Pockets: Ideal for sticky products, reducing build-up and ensuring even distribution.
8. Fine Dosing: Precise control for sensitive materials such as pharmaceutical sectors.

DMN-WESTINGHOUSE helps you select the best rotor for your process, considering aspects like material properties, hygiene, and operational efficiency.

T +44 (0)1249 818 400
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Smart fridge technology next-generational vending

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."

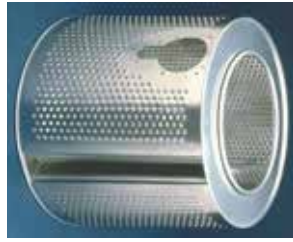
For more information and support, see the details below:
T 01922 640777
general@coinadrink.co.uk
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RMIG: We make ideas come to life

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



suitable for use in sterile environments. RMIG's perforated products also have numerous uses in the petrochemical sector, from industry specific applications such as filtration, to oil and gas exploration, as well as more general applications such as walkways in processing plants.



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

RMIG's perforated sheets can be used effectively within a number of areas, and RMIG has six dedicated market sectors covering Industrial Processing, Food Processing, Buildings and Interiors, Multimedia and Communication, Automotive, and Household Appliances. One particular area of Industrial Processing is medical and pharmaceutical, where RMIG's perforated materials are able to give firm tolerances during their manufacture, and are well



Additionally, RMIG works with biomass drying applications. The demand for alternative sources of sustainable and renewable energy is always growing. RMIG's Bridge Slot sheets are the most effective way of drying woodchip to an optimum moisture content, ensuring boilers operate efficiently to benefit farming and agriculture.

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

floors in outdoor buildings. The bridge slot opening size determines the products that can be dried, which range from fine oilseed rape through to larger grains and cereals, as well as logs and wood chip drying.

In the production of perforated dishwasher filters, RMIG offers the complete service from perforating and forming, including surface treatment, right up to final assembly complete with plastic rings and funnels.

RMIG also has decades of experience in the manufacture of perforated sieves using highly developed technical methods and strict quality control systems to guarantee customers are receiving the best possible product.

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The benefits of IO-Link – now also suitable for functional safety

Schmersal will present an IO-Link safety installation system for the first time at SPS 2024

Schmersal is to showcase an IO-Link safety installation system at SPS - Smart Production Solutions - in Nuremberg (Hall 9, Stand 460) for the first time. The system integrates solenoid interlocks and safety sensors from Schmersal, as well as fail-safe actuators. An IO-Link safety master and an IO-Link safety hub from Schmersal will also be part of the system in future. This means that the advantages of the standardised IO-Link communication system can also be used

for functional safety. Users benefit from the same connectivity, simple parameter setting and the availability of enhanced diagnosis data.

The system enables secure bidirectional communication and enhanced diagnosis of sensors and actuators. The data are transferred via three-wire connecting lines with M12 connectors in place of the usual eight-wire lines, thereby reducing wiring effort and assembly times and ruling out wiring errors.

IO-Link safety communication is suitable for safety functions up to PLe.

IO-Link-capable safety devices provide additional useful information alongside pure safety functions. Identification parameters provide information on the type of device and the location of operating instructions, data sheets and other documents. Status and diagnosis information (e.g. door open/closed) and operating data, e.g. how often doors have



been opened or closed or how often doors have been in their limit zones, facilitate maintenance and reduce unscheduled machinery downtime.

Other benefits: the standardised IO-Link communication system helps with rapid detection of improper connections. In addition, IO-Link has a data storage function, allowing for easy and fast replacement of sensors and actuators. The offline parameter setting option also means that safety devices can be easily parameterised and tested outside of production environments, e.g. in an office or at a PC.

Visit Schmersal at SPS - Smart Production Solutions - in Nuremberg, hall 9, stand 460, between 12 and 14 November 2024.

www.schmersal.com/en/home





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SELECTING THE CORRECT ROTOR

The key to efficient process performances

Precision and efficiency are essential in dry bulk solids handling. With our eight distinct rotor options designed to enhance reliability, improve hygiene, ensure consistent product flow, and minimise costly downtime, DMN-WESTINGHOUSE provides solutions for various applications. Whether handling powders, granules, or other challenging materials, selecting the right rotor is key to achieving optimal performance.



Resilient Edge Rotor



Scalloped Rotor



Fine Dosing Rotor

Contact DMN-WESTINGHOUSE today to discover how we can help you optimise your production processes for maximum efficiency and safety by selecting the well-matched rotor.

Discover your future-proof solution at dmnwestinghouse.com