

Best Practice



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Vacuum Cleaners in manufacturing

Quirepace manufacture the BVC range of Industrial Vacuum Cleaners. BVC is the original 'British Vacuum Cleaners,' and the majority of the current range is manufactured here in the UK in Quirepace's Fareham factory.

The BVC range of Industrial Vacuum Cleaners is specifically designed to meet the demanding requirements of manufacturing and processing operations by offering robustness, efficiency, heavy-duty construction and excellent after-sales back-up.

There are two separate and distinct applications for Industrial Vacuum Cleaners within manufacturing facilities. The first is for general housekeeping; a clean environment is a safe environment. The BVC range offers vacuum cleaner solutions for all products and environments, and in particular offers M-Class and H-Class machines designed specifically to collect hazardous materials or which are designed to operate in ATEX designated zones.

The second application for Industrial Vacuum Cleaners within process and manufacturing is where the machine is integrated directly in to the workflow. With design and production in-house,



Quirepace are able to customise standard machines for bespoke applications.

This integration may be physical adaptations to direct the vacuum to a particular part of the work area and/or may be control integrations to enable the equipment to be actuated directly by the process controls. For example, BVC models in the IV62, TI60 and TI80 ranges all offer the option for control through contacts suitable for interface to external control systems.

A huge range of hoses, tools and accessories are available, and Quirepace carry extensive stocks of consumables and spare parts ensuring BVC Industrial Vacuum Cleaners can be relied upon to deliver robust performance whenever and wherever needed.

Quirepace offer demonstrations on site, and the knowledgeable and experienced sales team will guide the user to the perfect solution for the application.

Find out more below:
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bvcsales@quirepace.co.uk
www.quirepace.co.uk



MachineSafe

see them on pages... 4-5



BONA

see them on pages... 6-7

Rotaflow designed and manufactured swivel joints

Rotaflow swivels are regularly utilised in the following engineering sectors with tailored or stock designs for specific needs: Brewery, Chemical, Dairy & Farming, Food & Drink, Nuclear, Process & Plant, Drilling & Mining, Oil & Gas, Subsea, Water & Waste.

Through in-house design and manufacture our swivel joints allow one or more different flows through a single unit, enabling the pipework to rotate 360 degrees whilst carrying fluids (including hydraulic and pneumatic) of different pressures without cross-contamination or leakage.

There are many different forms of Swivel Joint... from very straight forward designs of our F and FS series, Compact swivels, or Heavy Duty to Articulated Pipework configurations, Floating Suction Arms, Jacketed, High pressure. A Swivel Joint reduces costs by reducing the risk of leakage with its associated downtime.



By fitting a quality designed swivel, you are improving your production capacity.

Swivel joints will allow the movement on a slowly rotating drum or remove the damaging effect of twisting on hoses. The photo is of a 3" hardened carbon steel unit with specific end connections for use in the oil and gas drilling. Please visit our Previous Projects page

on our website for more examples of our swivels in use.

We have off-the-shelf solutions that are ready to go, or we can redesign and in-house manufacture to enable a quick turn-around with minimal fuss and maximum design experience.

To find out more, please visit our website and/or give us a call:
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Interface Force

see them on pages... 8-9



BITO

see them on pages 16-17

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Editor's Notes

Liz Dickinson
Editor



Welcome to our May issue of Best Practice for all the latest news from across the industry.

Sibor Ltd receives our Commitment to Excellence in the Process Control and Engineering industry. The company specialises in a range of services including: electrical and mechanical design installations, control panel design and construction, instrumentation specification and procurement (including ATEX certified components), and PLC software and SCADA development. With all eyes on renewable energy, Sibor has been designing and constructing power distribution and control systems in Anaerobic Digestion. [See page 3.](#)

MachineSafe Compliance Software is the recipient of our Product Innovation Award for outstanding services in machinery safety across industry. The software platform has been designed to fit a gap in the market for the inspection process by machinery safety engineers. This is ideal for (PUWER), Risk Assessments, New Machinery Audits, MachineSafe Audit, CE/UKCA Marking, electrical, pneumatic and hydraulic systems and users can also add their own inspections to the MachineSafe platform for their own use. [Read more on pages 4-5.](#)

We're delighted to showcase Bunting [on pages 24-25](#): One of the world's leading designers and manufacturers of magnets, magnet assemblies, and magnetising equipment. Bunting is supporting the Brunel Solar Team with specialist magnets and technical support in the development of their Nuna 12S solar powered car. The Nuna 12S will complete with other teams in the 16th Sasol Solar Challenge in September 2024, driving from Johannesburg to Cape Town in South Africa. Best of luck!

[Have some exciting company news to share?](#)
Email: liz@bestpracticeuk.co.uk

On the Cover

Bona introduces Bona Mega EVO, a next generation 1K waterborne lacquer for wood floors with a new state-of-the-art self-crosslinking technology that activates when applied. Suitable for heavy domestic and medium commercial use. The unique, non-yellowing formula delivers fast curing with excellent resistance to scratches, wear, and chemicals.

See pages 6-7



Download our iOS app here





Process Control Specialists



In this issue of Best Practice, we are honoured to feature Sibor Ltd for its Commitment to Excellence in the Process Control and Engineering industry.

This recognition underscores Sibor's steadfast dedication to the industry and its unwavering commitment to delivering exceptional services alongside an outstanding performance that has recently seen the company receive accreditation with Safe Contractor as well as hold ISO 9001; ISO 14001 and SMSTS certification.

Sibor can offer multiple services because of its diversified capabilities and expertise that allow it to address and meet the various needs of its customers.

"We are process control and automation engineers, specialising in a range of services including electrical and mechanical design installations, control panel design and construction, instrumentation specification and procurement (including ATEX certified components), and PLC software and SCADA development. Our expertise allows us to offer comprehensive solutions while maintaining our core strengths, particularly in client relationships.

Our approach is characterised by a strong emphasis on personalised service. We integrate seamlessly with our clients, becoming an integral part of their team and adapting to their procedures. This collaborative approach fosters enduring relationships, often leading to



opportunities to expand our services to meet evolving client needs and requirements," stated Managing Director, Rob Mockridge.

By adapting to changing industry trends and technological advancements, Sibor stay competitive and relevant in the market. Looking ahead, Rob explained what the company is currently focussing more on.

"We're heavily involved in the Renewable Energy sector, particularly in Anaerobic Digestion. We see immense growth potential here. Our core focus lies in designing and constructing power distribution and control systems, housed in containers. These units are rigorously tested before deployment, offering plug-and-play convenience on-site. Streamlining this process reduces on-site time and allows us to complete design, construction,



and commissioning beforehand. Our primary emphasis currently revolves around developing these container solutions. We're actively engaged in significant projects with industry leaders like Acorn Bioenergy and VTTI.

Additionally, we're eager to engage with other companies seeking similar services."

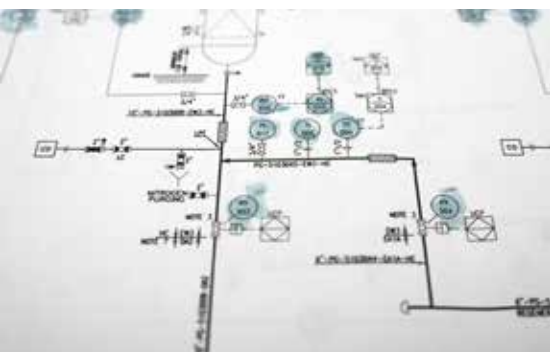
To keep on top of market demand, Sibor has recently expanded its manufacturing facility to a 5,000 sq. ft. unit in Pewsey, Wiltshire. This will enable Sibor to continue building on what they are currently doing as well as to expand its reach to other companies in the sector.

"Moving forward, we will continue to expand our control panel building facilities and all of the other services that we provide whilst simultaneously working hard to improve our service offering for the Anaerobic Digestion market and the companies that work within that," added Rob.

Offering multiple services comes naturally to Sibor, and its years of experience has enabled the company to be flexible and resilient across the ever-changing markets. In closing, we asked Rob what does having a Commitment to Excellence mean to Sibor and how does he feel they achieve it.

He responded, "As an ISO 9001 and ISO 14001 certified company, our robust quality procedures lay the foundation for our exceptional engineering services. We go beyond mere requirements, ensuring that all stakeholders fully comprehend their responsibilities. Our commitment to innovation challenges and conventional procedures enables us to provide cost-effective alternatives. By thinking outside the box, we embrace change positively and adapt to every scenario."

For more information, please see below:
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MACHINESAFE **COMPLIANCE SOFTWARE**

MachineSafe, The Safety And Compliance **Software Platform.**

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- Integrated inspection Risk Assessments.
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- Training and support available.

Contact MachineSafe to arrange your free Demonstration.



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

In this issue of Best Practice, we are delighted to feature MachineSafe Compliance Software with our Product Innovation Award for outstanding services in machinery safety across industry.

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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THE POWER OF EVOLUTION

Bona Mega EVO – Faster, better and safer floor surfaces

Bona introduces Bona Mega EVO, the next generation 1K waterborne lacquer with a new state-of-the-art crosslinking technology that activates when applied. The unique, non-yellowing formula delivers faster curing with excellent resistance to scratches, wear, and chemicals. With VOC levels below 3%, the lacquer contributes to healthier working conditions with a lower impact on indoor air quality.

Try the new step for medium wear wood floors, try Bona Mega EVO!

bona.com
info.uk@bona.com
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Bona®



The power of evolution

Bona Mega EVO® – Faster, better and safer floor surfaces

At the cutting edge of wood floor finishing technology, Bona proudly presents Bona Mega EVO® – setting a new industry benchmark for faster, better, and safer floor surfaces.

For over a century, Bona has been a pioneering presence in the flooring solutions sector, initiating products and technologies that have repeatedly set new standards. With the original Bona Mega introduced in 1996, Bona has consistently revolutionised the way we treat our wood surfaces. Previously launching a range of innovative floor treatments and finishes, many breakthroughs that won the professional trust and made Bona become a favoured choice for contractors. Today, we are excited to share with you the next chapter—the impressive Bona Mega EVO.

Bona introduces Bona Mega EVO, a next generation 1K waterborne lacquer for wood floors with a new state-of-the-art self-crosslinking technology that activates when applied. Suitable for heavy domestic and medium commercial use. The unique, non-yellowing formula delivers fast curing with excellent resistance to scratches, wear, and chemicals.

VOC levels and environmental responsibility

Sustainability is no longer a choice but a responsibility. Bona Mega EVO® stands as a testament to Bona's commitment to this cause, with VOC levels below 3% and EC1PLUS certification from EMICODE. The move to phase out PFAS in our products echoes our devotion to a safer and healthier environment. Our clients can trust our Greenguard Gold certification, ensuring safe use even on children's toys.

This revolutionary product transcends ordinary expectations, offering exceptional results while simultaneously contributing to healthier work conditions and enhanced interior air quality.

Pushing the boundaries of innovation

Bona Mega EVO delivers improved performance in less time. Due to its unique capacity to self-crosslink, the floor dries quicker after and between applications. Enhanced initial impact resistance minimises the potential for damage, enabling a speedier return to normal use than previously possible.

Forgiving and safe application

Bona Mega EVO, with its excellent viscosity, offers ease of application and forgiveness, whilst its rapid drying properties and outstanding abrasion

resistance minimize downtime. The smooth consistency offers outstanding filling qualities.

Thanks to the unique properties of Bona Mega EVO you can rest assured of a great result, with or without primer. The product's superior filling and abrasion resistance qualities streamline preparation and application processes while ensuring a pristine result.

Outstanding in comparison

Bona Mega EVO is the next evolution of Bona Mega, which was first introduced in 1996 and offered an industry-first oxygen crosslinking technology and, at the time, was considered a top choice among flooring contractors for use as a one-component topcoat for wood floors in environments requiring medium to light commercial wear resistance. Bona Mega EVO is the next generation that incorporates a completely new and significantly faster technology that is unique to Bona. The self-crosslinking occurs entirely within the lacquer without the use of any external components, making it a next generation coating.

Regarding performance, the Bona Mega EVO is an advancement in every way.

Merging the top features from Bona Mega and Bona Mega ONE creates an exceptional product that stands out from the competition by performing at a high level on all relevant parameters.

A wood floor lacquer not just for today, but for the future

"When it comes to performance, Bona Mega EVO® is an advancement in every way. With the new self-crosslinking technology, we have merged the top features from Bona Mega and Bona Mega ONE to create an exceptional product with even less solvent. It stands out from the competition due to its consistently high level of performance. Bona Mega EVO® is the next step for coating medium – to light-commercial areas and domestic wood floors," said Alec Stacey, Bona Technical Manager.

Bona Mega EVO's new self-crosslinking technology provides a topcoat that dries quickly, remains clear over time, offers excellent sanding ability, and has VOC levels below 3%. It has high filling abilities, low odour, and excellent scratch, wear, and chemical resistance. With Bona Mega EVO's fast-drying and quick cure time, the floor can be in use more quickly when compared to other one-component lacquers. This



also means that the next topcoat layer can be applied much sooner than with traditional polymer technology.

Bona Mega EVO® guarantees a uniform colouring of the wood floor even without the use of a primer making it possible to use just one product during the whole process. It has a non-yellowing formula with minimal odour during the application process and dissipate rapidly afterwards. The legacy of quality reflects in Bona Mega EVO®, capturing the essence of everything Bona stands for—innovation, quality, and sustainability.

About Bona

Bona is a family-owned, sustainably driven company that supplies products for installing, renovating, maintaining and restoring premium floors. Founded in 1919, Bona was the first in the industry to offer a full system of waterborne hardwood floor finishing and floor care products.

Today, Bona offers products for most premium floor surfaces including wood, tile, vinyl, resilient, rubber and laminate. The head office is in Malmö, Sweden, and the company is represented globally across 90 countries through 16 subsidiaries, 70 distributors, 4 production sites and over 600 employees.

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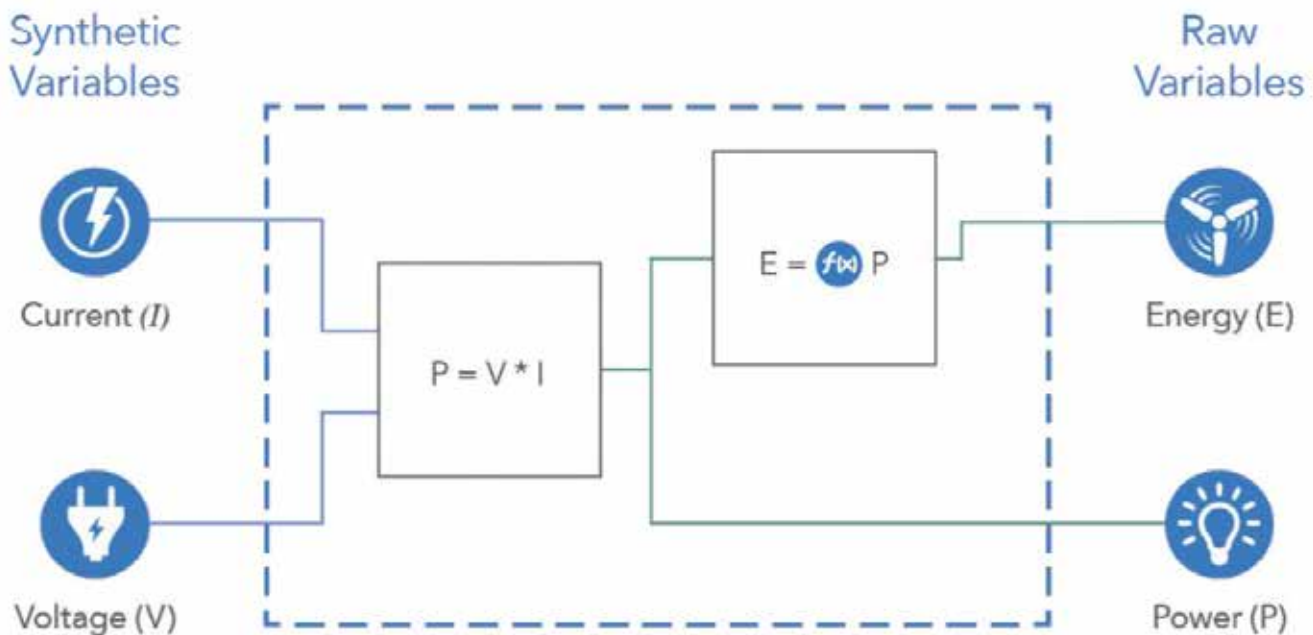
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sense, monitor, trigger, act



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Working with light since 1931, CML is the market leader in the field of miniature lighting for signalisation. As one of the first companies to introduce LED lamps, nearly 30 years ago, CML is now the supplier with the broadest range of miniature lighting products in the world.



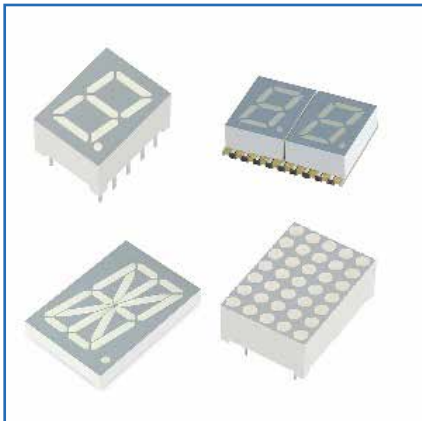
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Shedding further light on LED terminology



The last 10 years has seen an incredible shift in lighting technology as LEDs continue to dominate the market and penetrate new applications and industries.

This has brought a range of challenges, one of which is how to choose the correct supplier and product for your company's lighting needs.

The first step, inevitably, involves unpicking the myriad of terms which LED product suppliers use to describe their products.

Purchasing professionals involved in the procurement of lighting products will have observed the transition from the use of the Watt (a measure of electrical power) to the Lumen (a measure of emitted light). However, there is a further range of concepts and terms that are also essential to understanding products that emit light. What follows is a brief explanation of two of the most useful.

LED Life & Lumen Maintenance

Historically, the longevity of traditional light sources was classified using 'average life.' In

incandescent filament lamps this was the average time for 50% of the lamps under test to catastrophically fail under laboratory conditions.

It is important to note that this means that some of the lamps would have failed before the quoted figure for their average life.

LEDs tend not to fail catastrophically. Instead, LED light output degrades gradually over time. In many applications therefore, it is essential to understand what happens to the light output of a product over time.

This leads to the concept of lumen maintenance which, for an LED, is the elapsed operating time over which an LED light source maintains a given percentage of its initial life output.

Lumen maintenance can vary based upon many factors including operating temperature and drive current. It can also vary between manufacturers due to the selection of different materials and packaging methods.

This makes it increasingly difficult for purchasing professionals to compare and select products, however, the need for a standardization of how such information is presented has long been recognized by the lighting industry. The Illumination Engineering Society of North America (IESNA) has published guidelines regarding the testing of LED components and LED lighting products.

IESNA LM-79-19 details the approved methods for taking electrical and photometric measurement of solid-state lighting products. IESNA LM-80-08 details the approved methods

for measuring lumen maintenance of LED packages, arrays and modules.

As it is not reasonable to expect LED and lighting manufacturers to test products for years prior to release, IESNA also published TM-21-11. This document provides guidance on projecting long term lumen maintenance based upon initial test results.

In combination, these 3 documents have led to many leading LED manufacturers providing 'L' values for their product. For example, an LED module with a rating of L70 = 25,000 hours indicates that the luminous flux of the module will be 70% of the initial value after 25,000 hours.

Whilst such data may not be available for legacy products, many LED users – such as CML Innovative Technologies – now insist upon receiving the aforementioned data for lighting products to be considered in new designs.

Contact Roger Neal,
Commercial Manager,
CML Innovative Technologies Ltd
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ATEX CERTIFIED SAFETY LIGHT CURTAINS FOR EXPLOSION PROTECTION



Production areas of the chemical industry, refineries, paint shops, bulk material processing, sawmills and grain processing companies have increased risk of explosion. For these applications, Schmersal has developed the ATEX certified SLC/SLG440 safety light curtains and grids.

The Ex-SLC440 for finger, hand and body detection are available in variants with a resolution of 14 and 30mm and ranges from 0.3 to 20m. The Ex-SLG440 safety light curtains are suitable for access control in hazardous areas. The waterproof and dustproof devices achieve IP66 and IP67 protection and can also be used outdoors.

The devices can be installed in potentially explosive gas and dust atmospheres, they are used to protect hazardous areas and access points for machinery. If one or more beams are interrupted, the dangerous movement is brought to a standstill.



Colour Signals: Machine status is directly visible on the handle



Schmersal is to showcase its new door handle system at Hannover Messe 2024

Schmersal is set to showcase its new DHS door handle system at Hannover Messe 2024: the door handle unites the functions of a robust door handle with display of individual machine statuses using illumination in the handle itself. The door handle system is universally designed so that it can be optimally used with the AZM40 solenoid interlock, with safety sensors from the RSS36 and RSS260 series or as a stand-alone solution.

The handle signals different machine conditions over its area using seven different colours. The user can control the colours individually in order to signal defined machine status.

In addition, a push button is available, which can be individually adapted to customer requirements using the coloured push button caps supplied. The

pushbutton can be used for tasks such as a reset function or a request to open the guard door.

The benefit: The DHS door handle system eliminates the need to install additional door handles and indicator lamps. The entire door system has been designed for integration into 40mm profile systems.

Another highlight of the door handle system product family is the new BDF40 control panel, which, with its flat design, adapts optimally to the AZM40 solenoid interlock. Two versions are available, with or without emergency stop function, both with interchangeable, colour button caps for illuminated or unilluminated pushbuttons.

A connector allows the control panel to be integrated effortlessly into the door system with AZM40 solenoid interlock and DHS door handle. As an alternative,

it can also be installed as a standalone control panel. The 12-pin M12 connection enables rapid and reliable installation and can be optionally concealed with an MS assembly kit to guard against tampering.

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Oakway Storage introduces a new flexible warehouse protection solution to the UK

Oakway Storage, a leading provider of warehouse design solutions, is proud to announce the launch of its latest product: flexible warehouse protection.

This innovative solution prevents accidents and damage to people, racks, property and machinery. Above and beyond traditional steel-fabricated protection, the Oakway Storage solution returns to its original shape after impact, reducing shock and damage, whilst also increasing floor space through a cleverly designed minimal footprint.

According to the Health and Safety Executive (HSE), over 5,000 reported accidents involve workplace transport every year in the UK. This alarming statistic underscores the importance of implementing safety measures to prevent workplace accidents and injuries.

The new product features a flexible design that absorbs the impact of a forklift or other heavy equipment without causing damage to vehicles, floors or the



protection itself. This popular feature offers cost-effective protection over a longer period than traditional steel protection.

Oakway Storage offers a full range of warehouse fit-out solutions, including pallet racking, mezzanine floors, shelving systems and complete turnkey project management, with a reputation for delivering full warehouse fit-outs, fast.

For more information about Oakway Storage, including the flexible warehouse solutions, please visit the company's website at: <https://oakwaystorage.co.uk> or call: 01604 792255.

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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

BITO
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SYSTEMS

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.

Gaining the capacity to stock items in sufficient quantities to avoid running out, thus allowing the DC to react on customer demands quickly and deliver straightaway irrespective of the amount ordered by a store, even when bulk products a hit, peak makes the investment in PLS well worth it. A PLS system supplier with an experienced team of experts should be able to work closely with the client to develop competitively priced, customised solutions and work around existing operations to deliver projects on time.

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



How good is your driv



Driving for Better Business

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

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

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

Your organisation needs to do this for three reasons:

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

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

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

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



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

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

What should be in the policy?

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

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

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

A Driver Management section

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

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

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

ing for work policy?



Senior leaders need to demonstrate commitment to driver safety

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

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

A Vehicle Management section

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

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

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

All of this needs to be spelled out in your policy

A Journey Management section

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

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

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

We might tell our drivers to follow the highway

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

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

A Grey Fleet Drivers section

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

Improving driver engagement

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

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

Keeping it up to date

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

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

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

Demonstrating leadership commitment to driver safety



Insurance Claims

DOWN 23%



Insurance Premium

DOWN 30%

Miele GB has circa 420 staff, including a car fleet which is used by sales teams, and a van fleet used by those who



service and repair its products. Their driver risk management programmes have significantly reduced both collisions and their fleet insurance premium.

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

John Pickering MD, Miele GB

Create or review your policy

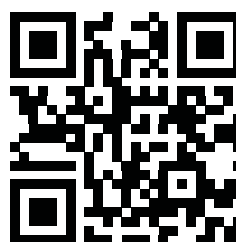
The Driving for Better Business team has just finished developing a brand new online *Driving for Work Policy Builder* tool which gives you access to pre-written example policy templates and examples that ensure you meet the required legal and compliance standards.

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

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

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

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



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- ▲ **Adapts to engineering**

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The next MIPC course runs from 21st October 2024 for 27 weeks, 4 hours flexibly per week. Open to all practitioner level engineers – **Registration open now. Induction to fit around work schedules from 23rd September 2024.**

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EEMUA Seminar Energy Transition 6 June 2024 – London, UK

EEMUA Seminar Storage Tanks 5 September 2024 – Birmingham, UK



More choices, information and registration at www.eemua.org





Impact Technical Services Impact to educate and advise on LEV at Health & Safety event

Impact Technical Services made its debut appearance at The Health & Safety Event at the NEC, Birmingham from April 30th–May 2nd.

Impact has been providing comprehensive LEV testing and extraction system design and installation for over 30 years and throughout this time has continued to increase its level of service and competency to place itself head and shoulders above its competitors.



Ensuring a high level of competency and reliability for its customers has always been a high priority, but over recent years, Impact has responded to the increasingly stringent requirements of the HSE by developing its nationwide team of technicians by extending their training to include further



LEV qualifications with the British Occupational Hygiene Society (BOHS).

As an industry leader, Impact is perfectly placed to provide industry professionals with the information and support they require to operate safely where a hazardous substance is used, or airborne contaminants are present. Visitors were urged to attend The Health & Safety Event to visit their stand (Hall 4 Stand K142) to discuss their requirements and to ensure they are protecting workers in compliance with COSHH regulations.

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Measurably better Chemiluminescence analysers

Nitrogen Oxides (NO_x) are chief villains in the battle for climate control; belonging to a family of gases that are formed during the combustion of fossil fuels. When Nitric Oxide (NO) reacts with other gases, for example with Ozone, it forms Nitrogen Dioxide (NO₂), which is considered highly toxic to human health.

The reaction with Ozone is also an indicator for why Nitric Oxide (NO) is considered a climate active gas, that interacts with Earth's protective Ozone layer. Human exposure to high levels of Nitrogen Dioxide (NO₂), but also Nitric Oxide (NO) can cause airway inflammation, susceptibility to allergens and exacerbate pre-existing lung or heart conditions.

Nitric Oxide (NO) is a biological marker of inflammation and is also produced by cells involved in the inflammation process. It is typically used to diagnose allergic/eosinophilic asthma. Legal ambient air limit value (annual average value for the European Union) for Nitrogen Dioxide (NO₂) concentrations is 40µg/m³. Maximum occupational exposure limit is 950µg/m³. Indoor air limit value for maximum exposure is 250µg/m³ but the precautionary value 80µg/m³. The WHO defines 40µg/m³ as precaution limit.

The Department for Environment, Food & Rural affairs (DEFRA) has also reported soil chemistry and biodiversity changes across many UK habitats, through gas (dry deposition) and precipitation (wet deposition.) Anthropogenic Nitrogen Oxides (NO_x) influence tropospheric chemistry, which directly cause photochemical smog and concentrated levels of urban ozone.

ECO PHYSICS AG offer world-leading measurements of Nitrogen Oxide (NO_x), through trailblazing chemiluminescence analysers. These innovative analytical solutions are unprecedented in speed and sensitivity, with a cutting-edge range of sensitivities from 1% down to 1 ppt (part per trillion). Chemiluminescence Analysers use a unique thermally-stabilised semiconductor photodiode, to measure light intensity produced by reactions between Nitric Oxide (NO) with Ozone (O₃). The light intensity correlates to the proportion of Nitric Oxide (NO_x) converted to Nitrogen Dioxide (NO₂) by the reaction.

We caught up with Dr Grischa Peter Feuersänger, Head of Sales & Marketing, to find out more about ECO PHYSICS, "ECO PHYSICS was founded in 1990



through a management buy-out, by co-founders Dr Matthias Kutter and Dr Werner Moser and we now operate from our base in Duernten, Switzerland. We offer 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 initial know-how focus was centred on the principle of the chemiluminescence, thus developing and manufacturing analysers for the ambient pollution and emissions. We have perfected analytical technique in

speed and sensitivity. Today we are proud to claim world leadership in the fastest and most sensitive chemiluminescence analysers and the broadest commercially available range."

This Swiss-based innovative company has EN ISO 9001: 2015 quality management and EN ISO 13485: 2016 medical devices-compliance, offering quality assurance to customers across many industries. There is a new range of gas analysers and boxed set gas analysers available: nCLD AL, nCLD AL2, nCLD AL3/8555, nCLD EL and nCLD EL2.

The nCLD AL3/8555 is a next-generation modular gas analyser, offering state-of-the-art simultaneous measurements of NO, NO₂, NO_x, NH₃ and NO_x-Amines. Even lower detection limits can be detected through the newly designed reaction chamber, enhanced gas flow paths, improved pressure and temperature stability. This analyser is adaptable to non-standardised applications, with the unit calibration running smoothly on an automated basis.

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NO · NO₂ · NO_x

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Magnets for revolutionary Solar Car



Bunting is supporting the Brunel Solar Team with specialist magnets and technical support in the development of their Nuna 12S solar powered car. The Nuna 12S will compete with other teams in the 16th **Sasol Solar Challenge** (September 2024), driving from Johannesburg to Cape Town in South Africa.

Bunting is one of the world's leading designers and manufacturers of magnets, magnet assemblies, and magnetising equipment. The Bunting European engineering and manufacturing facilities are in Berkhamsted and Redditch, both in the United Kingdom.

The Brunel Solar Team promote sustainability through innovation. The team was founded after a group of **TU Delft** students watched the movie *'Race the Sun'*, where high school misfits in Hawaii build a car driven on solar power and take part in the 1990 World Solar Challenge in Australia. The students decided to design and build their own solar car and participate in the **World Solar Challenge** of 2001. With the help and support of Wubbo Ockels, first Dutch astronaut and professor at the TU Delft who became the team coach, they developed the solar car and won the 2001 race. The first time that a newcomer had won.

Since 2001, the team has continued to promote awareness of the power of sustainable energy through innovation. By participating in solar races all over the world, the team wants to highlight the potential of solar power and push

the boundaries of the technology. The team has won the World Solar Challenge on 4 separate occasions, as well as securing 11 other world titles.

The present Brunel Solar Car team was formed in September 2023 for the 2024 Sasol Solar Challenge. The 11 (eleven) students in the team cover a range of disciplines from engineering design through to marketing.

During the design phase, the Brunel Solar Team realised that they needed specialist magnet-related technical support. On previous motor designs, the team had encountered difficulties with the magnets, which were proving difficult to overcome. The team read several of Bunting's technical press releases and blogposts on magnets and complex magnet assemblies, and recognised the company's focus on sustainable magnets. Subsequently, the Brunel Solar Team contacted Bunting for guidance on the type, design, and assembly of the magnets used in the motor that drives the vehicle. With decades of experience in designing and developing magnets and magnet assemblies, Bunting's Technical Product Manager, Matthew Swallow, spoke with the team and provided precious technical support that clarified the magnet specification and optimum build techniques.

The operating requirements led to the selection of special permanent **neodymium iron boron (NdFeB) rare earth magnets**, which generate high magnetic forces. The

efficiency of the motor is vitally important in transferring the maximum amount of captured solar energy into motion. The motor is novel and uses the magnets to produce the most torque per input energy to move the car the furthest distance on the harvested energy. This extends the range of the solar powered vehicle, making the Brunel solar car very competitive.

The Brunel Solar Team plan to officially reveal and test drive the new solar car in June 2024, before departing for the Sasol Solar Challenge in South Africa in early August. Further testing will take place in South Africa leading up to the race that starts on the 13th September. The Sasol Solar Challenge challenges teams to develop, build and drive solar-powered cars, with the ultimate goal of covering the most distance without using a drop of fuel.

"This is a great example of the important role magnets play in 'green' technology," explained Matthew Swallow, Bunting's Technical Product Manager. "The innovative Brunel Solar Team is pushing the boundaries of solar power technology and we were thrilled to support them with magnet materials and technical assistance. The development of solar power projects like this and other sustainable technology is vitally important as the world moves away from fossil fuels."

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Meeting the challenges



Hertfordshire based engineering company Magog Industries continue to develop its range of bimetallic alloy hardened grades and coatings, working closely with established UK and European based coating specialists. Plastics recycling is growing within the industry with many moulders increasingly recycling in-house.

However, where recycled material needs to be bought in, problems can arise where material contain abrasive elements that pose a challenge in processing. For example, added fibres used to reinforce the moulded product can now be as high as 50%. Certain PE and some grades of bio-degradable polymers such as PVOH (Polyvinyl Alcohol) can attack the screw surface over time.

At Magog Industries, Director and General Manager, John Allsop is leading the drive in developing and presenting solutions, "We've been focussing on looking at measures, particularly surface treatment for abrasion and potential corrosion to increase resilience and longevity specifically in ceramic and chrome seal coatings for demanding applications such as blown film extrusion." John explained, "By working closely with our customers we continue to innovate and develop our products to ensure latest solutions are available to meet the most demanding process applications."

"For example, the recycling and re-processing market has grown in recent years for both new and refurbished screws and barrels for the company. Regrind material can bring its own challenges but are successfully met thanks to many years of expertise within our design, engineering and production teams."

John adds, "In addition to specialist screw and barrel manufacturing facilities, we offer repair and refurbishment of pre-used parts, saving our customers money not just against OEM items but in turnaround too, saving valuable downtime, we design everything to meet our customers' specific processing and production requirements."

Screw designs are configured to maximise performance from single start compression to a range of mixing elements for optimised distributive and dispersive mixing. The



company also advise and offer design configuration for complex parallel and conical twin extruder screws.

Manufactured from high quality metals including EN 41B Steel provides hard wearing properties but also allows refurbishment of hard welded flights at a later date. Depending on material type, surface treatments are on offer to include ceramic, chrome, Hastelloy, Armoloy and Tungsten Carbide (HVOF) in addition to Nitride and bi-metallic hardened.

For more information, contact Magog Industries:
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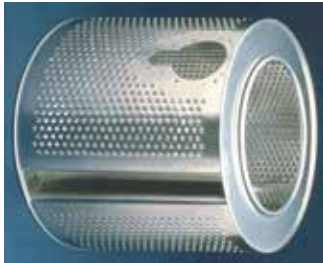


RMIG: We make ideas come to life

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.

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 suited 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.

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.

Contact
T +44 1925 839610
info.uk@rmig.com
www.rmig.com/en



RMIG Solutions

we make ideas come to life



RMIG is the world's largest manufacturer and supplier of perforated metal and its related products.

We know our customers' requirements for price and quality and meet their demands with uncompromising service.

Not only do we offer standard and bespoke perforated metal sheets, we are able to offer you a range of secondary operations as detailed below.

Complete solutions

With a continued investment in the latest equipment and a network of professional partners we are able to produce prime quality products and solutions – from a simple perforated sheet to the fully formed and coated custom made part.

Cutting

We can cut and shape perforated sheet to meet the needs of your final application.

Levelling

For some applications a high degree of flatness is required, we have processes in place to ensure our perforated coils and sheets meet with your most demanding requirements.

Rolling and forming

We can roll, bend and form perforated sheets to match your design.

Aesthetic finishes and protective coating

We can offer powder coating and hot dip galvanizing solutions to meet your specifications.

For more information please contact us tel: 01925 839610 | email: info.uk@rmig.com | www.rmig.com



Anua Clean Air: Air pollution control specialist

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



Our Monashell™ and CrumRubber™ use recovered materials as the critical filtration component. The unique properties of these materials enhance capture and treatment which in turn provides multiple environmental benefits in terms of Circular Economy, Carbon Footprint (low water and energy requirement and no consumables) and removal of harmful atmospheric pollutants.

During the past number of years along with its parent Company Anua Clean Air International limited and Italian Sister company Air Clean SRL we have been very active in the UK, Ireland and in overseas markets including Italy, France, the Middle East, China and the US. International Reference projects include Dual Pass Monashell Installations in Riyadh,

Jeddah, Laguna Lake in the Philippine's, Coimbatore in India, and Sindos in Greece. For our new CrumRubber technology we have supplied new installations in the Canary Islands, China, Oman and UK and Ireland. We are also currently working with Air Clean USA on the delivery of a number of new installations for the US market.

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

www.anuacleanair.co.uk

Intelligent ventilation systems

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



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

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

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

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

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

For more information, please see below.
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Christeyns Food Hygiene wins Training Company of the Year at the SOFHT Awards 2023

Warrington based Christeyns Food Hygiene, part of Christeyns UK, were proud to receive the SOFHT Training Company of the Year Award at the event in London last night.

SOFHT is an independent consortium of food industry specialists set up to keep members advised of the current hygiene and technology issues through the provision of technical support, training and topical information as well as a vital forum for networking and sharing best practice across the entire food chain. The annual awards, now in their 19th year, recognise and celebrate excellence within the food industry and its associated industries.

As well as designing hygiene chemicals and equipment, Christeyns Food Hygiene run an educational platform for the training of hygiene professionals. The Christeyns Academy has evolved since its inception in 2013 to become

a valuable resource for manufacturing companies in the food sector. What started as a requirement to provide chemical safety training has grown into a package of training materials to support all food sector requirements.

Commenting on the award win, Martin Mann, Senior Customer Development Manager, states, "We are delighted to have been named SOFHT Training Company of the Year 2023. This recognition of our specialist knowledge and training programmes highlights the range of support we can provide to the wider industry to assist them in attaining manufacturing excellence."

"Food hygiene is paramount in safeguarding the public, a firm's reputation and in managing a successful food production business. It underlines all we do, and we are passionate about ensuring food and drink safety across all sectors of our business."



Christeyns Food Hygiene provides innovative hygiene solutions and specialised technical support for the food and beverage industry that ensure compliance with procedures, legislation and industry codes of practice.

www.christeynsfoodhygiene.co.uk

The Spotlight is on Watsons Anodising Ltd

WATSONS ANODISING LTD IS A LEADING MANUFACTURER OF BESPOKE ASSET TAGS, LABELS, STICKERS, AND CONTROL PANELS SPECIFICALLY DESIGNED FOR THE FOOD AND DRINKS INDUSTRY. WITH YEARS OF EXPERIENCE IN THE INDUSTRY, WE UNDERSTAND THE UNIQUE REQUIREMENTS AND REGULATIONS THAT ARE NECESSARY FOR PRODUCTS USED IN THE FOOD AND DRINKS SECTOR.

OUR ASSET TAGS ARE DURABLE AND CAN WITHSTAND HARSH ENVIRONMENTS, ENSURING THAT YOUR ASSETS ARE PROPERLY IDENTIFIED AND TRACKED. OUR LABELS AND STICKERS ARE DESIGNED TO RESIST MOISTURE AND CHEMICALS COMMONLY FOUND IN FOOD AND BEVERAGE PROCESSING ENVIRONMENTS.

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AT WATSONS ANODISING LTD, WE ARE COMMITTED TO PROVIDING HIGH-QUALITY, RELIABLE PRODUCTS THAT MEET THE STRINGENT REQUIREMENTS OF THE FOOD AND DRINKS INDUSTRY. CONTACT US TODAY TO DISCUSS YOUR SPECIFIC NEEDS AND HOW WE CAN HELP YOU WITH YOUR ASSET TAGGING, LABELING, AND CONTROL PANEL REQUIREMENTS

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Hydraulic & Pneumatic Presses and Sheet Metal Clinching Machines

BTM Automation Products (UK) Ltd are specialist providers of sheet metal clinching machines, hydraulic press machines and pneumatic press machines.

At BTM we present our flagship technology "Tog-L-Loc", the sheet metal clinching technology that is simple, economical and an efficient solution to your metal joining needs.

This patented clinching system is: –

- consistent – Non-destructive testing & repeatable joints
- economic – Long tool life 300,000 joints common
- versatile – Dissimilar metals can be joined
- simple- Simple Punch & Die arrangement

With todays complex designs, high quality standards and global markets our expertise in clinching sheet metal enables the customer to benefit from over 40 years' experience.

BTM offer a full and complete package from initial enquiry to commissioning. Our expert specialist engineers have served the Automotive, Lighting, Heating, White Goods and many other industries. Whether it is a simple hand held unit, robot cell or special purpose machine BTM Tog-L-Loc has a solution for you.

For detailed information on the Tog-L-Loc process please see our Tog-L-Loc product page.

In addition to Tog-L-Loc, we also provide aluminium clinching technology "V-Loc", a harder rotation resistant version of Tog-L-Loc called "Lance-N-Loc" and our leak proof version "Oval-Loc". Please see our Products section for more details and product information download sheets.

Telephone: +44 (0)1767 677001

Email: sales@btm-uk.co.uk

Visit: www.clinching.co.uk



BTM Automation: Produce more with less work

BTM Automation Products (UK) Ltd is a specialist provider of sheet metal clinching machines, hydraulic press machines and pneumatic press machines, and has encompassed over 40 years of experience within the industry and offers unrivalled complex designs and high-quality standards within a global market.

BTM Corporation of Marysville, Michigan was founded in 1966 by Mr. Ed Sawdon & Mr. Milus Allison as a manufacturer of bending machines for the automotive and appliance industries. The initials BTM were coined as an abbreviation for "Bending Tools & Manufacturing."

From simple tools to advanced automation, BTM supplies solutions for its customer's production requirements in mechanical joining technology, and these may range from standard tools to modular handheld tools up to customised systems.



a special punch and die to form a strong interlocking clinch joint, and the result of the process is a round, button shaped extrusion on the die side of the assembly, and a small cylindrical cavity on the punch side. The clinch joint requires only the sheet metals that were joined - no external fasteners, or welding is utilised in the process.

Tog-L-Loc® offers numerous advantages to customers; No rivets or fasteners, no secondary operations, reduced and simplified maintenance, no transformers or cooling lines, no heat build-up, joining of dissimilar metals and coated metals, leak-proof joints, high repeatability, non-destructive checking, long tool life and more.

This patented clinching system is currently in widespread use in the production of automobiles, trucks, domestic appliances and many other conventional products, and is rapidly being adopted in the UK & European markets as a standard method of joining sheet metal components. This is thanks to its excellent qualities:

- ▲ **Consistent:** Non-destructive testing & repeatable joints
- ▲ **Economic:** Long tool life 300,000 joints common
- ▲ **Versatile:** Dissimilar metals can be joined
- ▲ **Simple:** Simple Punch & Die arrangement

Other innovative products from BTM include V-LOC™, The Oval-Loc™, and the Lance-N-Loc™, all of which offer slightly differing benefits and additions to the trusted Tog-L-Loc® and can be used in different ways for different materials.

The company also offers Pneumatic Press equipment, and has a patented 'THIN' air powered toggle Press that produces high forces using 80 psi air pressure. Its 'THIN' profile allows for close stacking and includes a unique, pivoting, rectangular piston that drives the non-rotating arm through a force multiplying toggle linkage, and it is ideal for applications like clinching, piercing, riveting, bending, stamping, and more.

BTM offer a plethora of products, equipment and in-house services that deliver customers the best solutions on the market. With production and design applications that far outweigh any competitor in the industry, BTM has gained a reputation for its high-quality workmanship and problem-solving abilities that have laid the foundations for its continued success.

BTM (UK) Automation Products Ltd is a rapidly growing force in the drive for world class product quality and reduced production costs in manufacturing today.

For more information:
T +44 (0)1767 677001
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Visit: www.clinching.co.uk



The company places particular emphasis on providing support to all customers. From the production of prototypes and support for a clinch optimized process, with professional engineering and during the whole general project support from the first sampling to delivery and maintenance, it works closely together with customers.

From initial enquiry through to commissioning, BTM offers a full and complete package. Its expert specialist engineers are trained in the automotive, lighting, heating, white goods and many other industries. The company's main product is its flagship technology "Tog-L-Loc®", the sheet metal clinching technology that is simple, economical and an efficient solution to your metal joining needs. After the introduction of the original toggle press Mr. Sawdon developed Tog-L-Loc® as an alternative to spot welding, riveting and other conventional methods of joining.

Tog-L-Loc® cold-forms the part metal using



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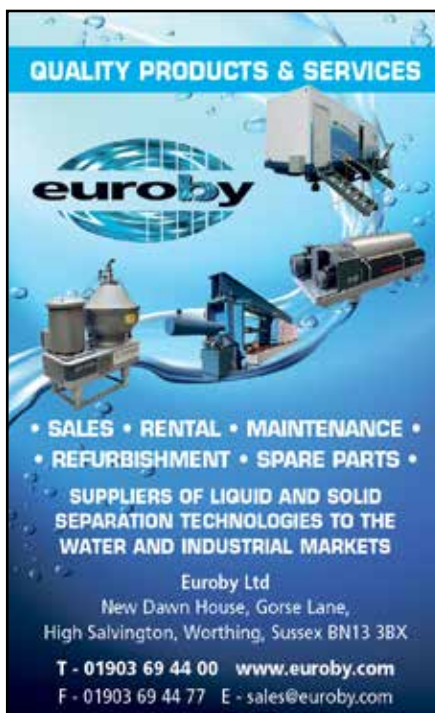


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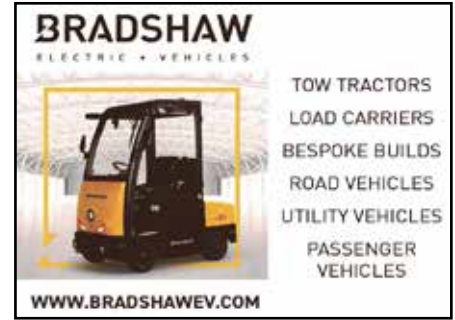
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