

INDUSTRY UPDATE

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Our proven process: How UNISIG leverages experience & expertise to solve customer challenges



For over 40 years, we've helped our customers achieve success in deep hole drilling, providing them with the machines, automation and support they need to be competitive and profitable.

We have found that the initial energy we and our customers spend at the beginning of a quoting process pays off throughout the entire project, from inception to installation. We take a systemised approach not only during this critical phase but also throughout the entire sales process. This ensures there are no surprises and that our customers know exactly what they can expect when starting discussions with UNISIG about their gundrilling and deep hole drilling needs.

This is our approach at UNISIG:

1. We listen to our customers, ask questions and understand what they need.

This may seem obvious, but often the temptation is there to just skip to a quote because we think we know what is needed after a brief discussion. Sometimes that is true, when the application is straightforward and familiar, or it is something we have a packaged solution for. We always try to make the quoting process quick and efficient, but there are times when the application deserves a more in-depth conversation. Our salespeople and engineers listen very carefully and often pick up on small details – a specific tolerance, material condition, process requirement or a future need for flexibility – that may change our recommendations.

When it makes sense, our experienced sales team or engineers will visit a customer to see what is needed firsthand. Whether a site visit or just a virtual meeting, this initial investment of time to clarify the need saves the customer money and provides them a truly valuable solution.

2. We first identify a standard solution from our product line that can be applied at the lowest cost and shortest delivery time possible.

At UNISIG, our product development mindset is to systemise solutions from our experience in many different industries, make them automation ready and embed application flexibility whenever possible. We invest millions of dollars annually in our product line and related spare parts, giving us a strong starting point for new applications. Our standard product line encompasses much more than machines, including standard automation, workholding, accessories and tooling that we can offer as part of the solution.

Once we have identified a standard machine as a starting point, our engineers seek out smart, practical ways to meet the customer's application needs. The goal is to innovate within the machining operation planning, work holding or automation, as opposed to engineering a completely special solution without first exhausting opportunities to solve problems with standard products.

For our customers, this approach provides them a reliable, standard machine that can be used for many years and that has the built-in flexibility for easy re-tooling to adapt to future needs. For us, initially working within the boundaries of our catalogue cultivates new ideas that can then be applied to improve our standard products as well as help us direct future research and development budgets.

3. If a standard solution isn't available, we consider a customised solution and we stand behind it.

UNISIG is very good at building customised machines, and we do so often. Once we and our customers agree that a special solution is needed, we move forward with a great deal of confidence and experience. We start by evaluating how we might approach the design using standard modules or proven concepts, thus eliminating long debug cycles and/or high costs. Then we use our mechanical and electrical engineering disciplines to virtually test the new machine before we build it.

One of the key reasons our customers are confident moving forward with a UNISIG custom machine is that they know we will stand behind it and that we have substantial capabilities to ensure it always exceeds their production expectations. We approach these special projects with the mindset that a custom

machine will be used for decades in production, which is why we provide the same documentation and long-term technical support for all our machines whether standard or custom.

4. If a commodity solution is readily available, we recommend that rather than upsell a machine the customer doesn't need.

We build machines that can gundrill or BTA drill deep holes that are impossible to drill on machining centres. Even if it may be possible to drill some deep holes on a CNC machining centre, our machines have the power, speed, dimensional accuracy, spindle density, coolant systems and process control that will improve productivity, tool life and reliability.

Typically, though, when a customer comes to UNISIG with a specific part need, at that point they've most likely already struggled with a conventional machine and realised that a deep hole drilling machine is obviously the way to go.



However, our team knows how to identify whether or not an application would truly benefit from a UNISIG solution. When it wouldn't, we will suggest viable alternatives. It's not that we don't want to sell a machine. But the fact is that our experience has shown that at some point the alternative-solution direction becomes obvious, and we want to make that apparent early on in the process so as to avoid wasting a lot of our customer's time.

Our customers expect the best from us, and we believe that our proven process ensures we never disappoint. Our goal is to leverage our core values to serve our customers as best we can and build strong, productive relationships for years to come.

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Machine building solutions from Foremost

Foremost Electronics the engineering-led Essex based importer and specialist distributor of electromechanical components, is a key source of supply for machine builders looking for rugged and reliable enclosures, human machine interfaces (HMI) and secure cable entry systems.

Channel partners for the German manufacturer nVent Schroff, Foremost can supply their range of cabinets, desktop enclosures, 19" cabinets, and sub racks. Their wide range of products include rugged, waterproof, modular and user configurable enclosures to suit many industrial

environments.

Just announced is the FIBOX NEO standalone enclosure featuring a modern design with a large viewing area reinforced against impact dust, snow and caustic substances. It is double insulated and has double walled base corners as well as integrated rain canopy. Available from IDEC, Foremost can supply their wide range of machine safety products including the IDEC X-series E-stops with an exclusive "Safe Break Action" that turns the machine off if a failure occurs within the E-stop itself. Other products include machine status

LED indicator towers and the HT3P SAFETY COMMANDER™ which can convert a tablet computer into an industrial HMI with safety functions.

Comprehensive cable entry products available from icotek include water and dust proof and EMC shielding options as well as modular systems which can accommodate cables with connectors fitted.

For more information call +44 (0)1371 811171, email sales@4most.co.uk or visit www.4most.co.uk



Combustion measurement solutions for all industrial processes

AMETEK Land is the world's leading manufacturer of monitors and analysers for industrial infrared non-contact temperature measurement, combustion efficiency and environmental pollutant emissions.

Since 1947, the UK established company has been supporting customers in reaching their environmental goals with its innovative range of solutions for measuring the products of combustion.

"Accurate flue gas measurements are the key to reducing pollutant emissions, reducing fuel costs and minimising the production of CO₂," stated Derek Stuart, AMETEK Land Product Manager. AMETEK Land offers a range of solutions to fit different process needs that include periodic flue gas measurements, cross-stack monitoring, extractive sampling, and continuous emissions monitoring systems (CEMS).

Whether its fixed or portable emissions monitors or non-contact thermometers, AMETEK Land has the capabilities to deliver measurements designed to improve the efficiency and environmental performance of many industrial processes.

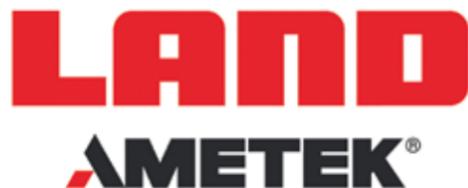
One notable product is the Lancom 4, a compact portable



multigas analyser that is capable of measuring up to eight flue gases in a range of combustion and emissions processes. It is ideal for periodic checks to demonstrate compliance, or for performing quick checks before stack testing. Although it has limited functionality compared to CEMS, the Lancom 4 offers an inexpensive alternative for smaller processes where using a CEMS would be uneconomical.

AMETEK Land also holds decades of experience in non-contact temperature measurements for industrial applications. For this, it has an extensive range of fixed and portable spot measurement pyrometers that provide measurements to optimise many industrial processes helping to reduce the output of harmful emissions.

58737pr@reply-direct.com
www.ametek-land.com



Clearmark's coding solution the perfect blend for coffee roasters



Clearmark Solutions has enabled coffee roasters Lincoln & York Ltd to increase production efficiency by up to 25% by replacing legacy coding equipment across 12 lines with ICE Zodiac thermal transfer overprinters from Clearmark, Lincoln & York

can now rapidly create and edit labels, enabling them to reduce changeover time between batches and cut waste caused by human error.

As one of the UK's largest coffee roasting companies, Lincoln & York sources, sought to replace its ageing coding equipment with a more reliable and flexible solution in a bid to increase uptime and deliver higher quality prints.

Clearmark Solutions assessed the existing coding infrastructure and ascertained that, as well as more modern coding equipment, the company would also benefit from upgrading its software and recommended the flexible ICE thermal transfer technology combined with CLARISOFT™ label design software.

The project enabled codes to be printed more efficiently across a range of flexible substrates, in a variety of colours, at the various throughputs required. In addition, the CLARISOFT™ labelling software installed on each line allowed operators to quickly create and edit label designs.

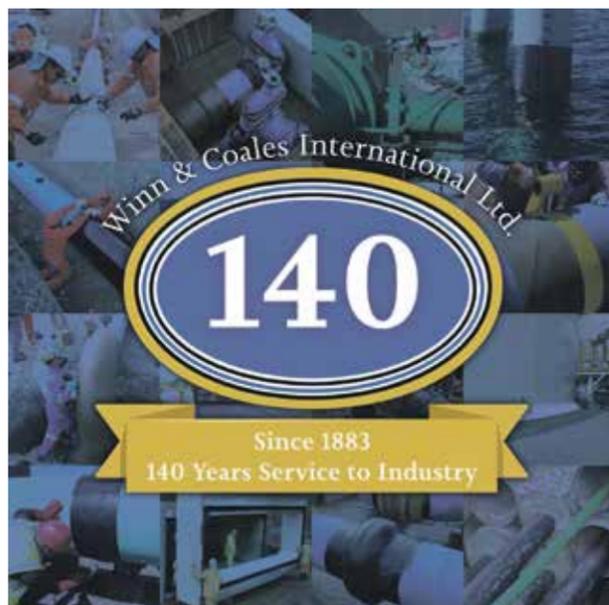
The Clearmark solution is a considerable improvement over Lincoln & York's legacy equipment as each ICE machine comprises an intuitive error-proof touchscreen, making operator training a straightforward process.

"It is essential that we are able to change our label designs as quickly as possible to meet growing supplier requirements. The ICE Zodiacs allow us to do this efficiently without having any impact on production," says Marc Rockall, Engineering Manager at Lincoln & York.

enquiries@uk.interactivecoding.com
www.clearmark.uk



Winn & Coales International Ltd. Celebrate 140 Years' Service to Industry: 1883 - 2023



Winn & Coales International Ltd., leading manufacturer and supplier of corrosion prevention, waterproofing and sealing products, are celebrating their 140th Anniversary.

First established as an import/export house in London in 1883, the company has earned an enviable reputation for supplying high-quality, long-term solutions for its customers. Well-known brands such as Denso™, Premier™, Archco™, Protal™, Premier Shrink Sleeves™, Steelcoat™, SeaShield™ and Sylglas™ provide effective protection for buried, submerged, or exposed steel and concrete pipes, tanks, and structures. A vast number of industries benefit from the tailor-made solutions Winn & Coales provide, with the company demonstrating a clear commitment to continual improvement of its product offering through innovative research and development, and product acquisitions – a notable example being Viscotaq™ visco-elastic coatings in 2021.

Today, Winn & Coales International Ltd. comprises seven subsidiary companies – two in the UK, and one each in the USA, Canada, South Africa, Australia, and New Zealand – with multiple regional offices, and a network of global agents and distributors.

Group Chairman, Chris Winn says, "It is with great pride that we celebrate this remarkable milestone for the company. As we reflect on the last 140 years, we also look forward to the future with tremendous excitement as our continued programme of investment and growth brings new technologies to our customers."

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ECLISSE offer the widest range of pocket thicknesses to suit the most commonly used stud

Sizing an ECLISSE pocket door system starts with understanding the thickness of studwork into which it is being installed.

Studwork for internal walls in domestic houses has traditionally been constructed from 4"x2" and 3"x2" timbers. To complicate matters timber is often referred to by its pre-finished size rather than its actual true measurement. There can also be some notable differences to the finished sizes of these timbers depending on whether you are using CLS or construction timber.

When you match the prefinished stud size to the most suitable pocket thickness then installation becomes simpler

and quicker because all you then need to do is use the same 12.5mm plasterboard on the pocket and along the rest of the wall without having to make any adjustments. ECLISSE has made matching the stud size to the pocket size easier by offering the widest range of pocket thicknesses of any UK supplier. Their Classic Single and Double pocket door systems now come with the following pocket thicknesses of 70mm, 75mm, 90mm and 100mm.

This is just another example of how ECLISSE work harder to make the installers life easier.

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New NSK ball screw for next-generation, high-accuracy machine tools



NSK has developed a new type of ball screw that exhibits reduced motion errors to deliver higher surface finish quality for machine tools used in mould and die machining and other surface-critical applications. By eliminating or reducing the time needed for secondary burnishing or polishing applications, the new ball screw also contributes to higher productivity, while simultaneously reducing the amount of drive torque to save energy.

In recent years, builders of machine tools such as five-axis milling machines have been demanding increased accuracy to produce higher quality mould and die surfaces, where the ball screws used in these machines must further improve motion accuracy.

When a ball screw reverses direction, sudden fluctuations in friction cause 'quadrant glitch' motion errors with two peaks, leaving streak marks on the machined surface and reducing surface quality. Numerous studies conducted on quadrant glitches show that it is possible to correct the first peak through numerical control (software-based servo controller compensation). Although it is more difficult to fully compensate for the second peak due to the combined effects of more factors (compared with the first peak), NSK can now present the machining industry with a solution to this problem.

Using real digital-twin simulation and friction analysis, NSK has developed a new ball screw with an optimised internal design. Key to this outcome was the company's understanding of the underlying mechanism of friction fluctuations in ball screws.

Among its many features, the new ball screw stabilises drive torque and reduces friction fluctuations when reversing its direction of motion, thereby improving motion accuracy and reducing quadrant glitch motion errors. The result is a near elimination of the second peak. Indeed, up to 20% less friction fluctuations also contributes to reducing the height of the first peak.

Through a combination of NSK's new ball screw and software servo controller compensation, machine tool manufacturers can assure their customers of significant improvements in machined surface quality. Furthermore, the enhanced surface quality eliminates or reduces the need for any previously required burnishing or polishing processes, reducing lead times, while lower drive torque contributes to energy savings. All of these benefits provide machine tool builders with the opportunity to pitch unique selling points to potential customers.

To maximise convenience for machine tool manufacturers, the mountings of NSK ball screws with quadrant glitch control are fully interchangeable with those of conventional products, allowing adoption without costly equipment changes. The ball screw will be available in shaft diameters from 25 to 63mm, with leads from 5 to 30mm. Preload types will include: offset preload (Z preload), double nut preload (D preload) and spring-type double nut preload (J preload).

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With the model **M639A91**, PCB Piezotronics, Inc. offers a very compact triax accelerometer in industrial design.

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in the field of industrial machine monitoring. The model works according to the ICP®/IEPE principle, is compatible with common data acquisition systems and ensures low-interference and optimum signal transmission thanks to the preamplifier integrated in the sensor.

The cable connection is made via a robust 4-pin M12 connector. Optionally, the accelerometer is also available with approval for use in potentially explosive atmospheres.

Applications

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For further information, see below: www.pcb.com



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Pfeiffer Vacuum introduces the new SmartVane Rotary Vane Pump for mass spectrometry



The new SmartVane vacuum pump from Pfeiffer Vacuum: Hermetically sealed pump housing for absolute cleanliness

- ▼ Hermetically sealed pump housing
- ▼ Optimal conditions for laboratories
- ▼ Environmentally-friendly stand-by drive

Aslar, Germany, November 16, 2022. Pfeiffer Vacuum, a leading provider of vacuum technology, introduces the first rotary vane pump for mass spectrometry with a hermetically sealed pump housing. The SmartVane serves as a backing pump for mass spectrometers (ICP-MS, LC/MS), for applications in environmental and food analytics, as well as in pharmaceutical and clinical analytics. This vacuum pump is designed to ensure that no oil leaks occur therefore preventing any contamination. Thanks to the integrated motor, no conventional seal is needed, which means that the SmartVane has longer maintenance intervals.

As Marcel Merkardt, Product Manager at Pfeiffer Vacuum, explains: "With SmartVane, oil leaks in the laboratory are a thing of the past. Here, we combine the advantages of the tried-and-tested rotary vane pump principle with a revolutionary sealed design. In practice, this means that you benefit from the familiar high performance of a rotary vane pump, but without any disadvantageous oil leaks."

The low noise level of the SmartVane ensures ideal conditions in the laboratory. With its typical operating pressure of less than 10 hPa, it is quieter than other pumps used for this type of application. This makes it possible to carry out even challenging tasks in a pleasant working environment. Its compact design makes it easy to incorporate in existing systems. In addition, the pump offers intelligent communication options and can be used as a plug-and-play solution in combination with existing devices.

An additional key benefit is the pump's sustainability. The SmartVane has an integrated energy-efficient IPM motor with a stand-by function. Its low power consumption automatically reduces the operating costs and CO₂ footprint.

Find more information about SmartVane here: <https://t1p.de/pfeiffer-vacuum-SmartVane-en>

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Industry Update would like to congratulate (ID) on being our Company Of The Month for dedicated services in factory automation products.

Identify Direct (ID), established in 1998 by David Levien, was acquired by Brian Castelino in 2018 to complement his existing company Machine Vision Technology (MVT). Both companies specialise in factory automation, with ID focussed on barcode reading and verification, and MVT specialising in machine vision.

Based in Leamington Spa, Warwickshire, they are ideally positioned to supply barcode reading and machine vision equipment all around the UK, also exporting worldwide.



With many industry sectors now running state of the art hi-speed moving production lines, Identify Direct provides linear and 2D barcode readers for automatic identification. The benefits include saving on costly manpower, improving accuracy of reporting, efficiency and traceability, as well as adhering to customer or regulatory requirements. Brian Castelino explains:

"Our bread and butter is selling Honeywell scan engines and OMRON fixed mount cameras. Our customers are machine builders, integrators and end users from a variety of industries including pharmaceuticals, food and distribution. They vary substantially in size and expertise and we pride ourselves on being able to tailor the level of support, offering guidance and engineering input if needed. If the customer knows what they want and just want us to source the equipment, then that's fine! Sometimes though, what the customer wanted has been withdrawn from the market or is on the verge of obsolescence, so then we can direct them to the best alternatives"



One of the company's newest products is the Checkrite which offers a complete barcode validation solution for production lines. Brian explains how it can help avoid production labelling mishaps.

"The Checkrite is a stand-alone, cost-effective system for preventing mis-labelling. It uses a scanner, a PLC (Industrial computer), a traffic light set of lights to display the results and a production line stop circuit. It bolts to the side of a production line and checks every product in real time. The price is often sub £5,500 and can have a payback period of

months and in some cases days! This makes it a 'no brainer' for the financial director and production manager alike"

Brian explains further:

"Mislabelling is an ever-present danger which can result in fines and product recalls. With the CheckRite, we supply the equipment to ensure products have the correct labels and that the right product has the right label, which is readable, of good quality and is in the right place on the product."

Many customers are longstanding and cannot speak highly enough of Identify Direct. Rachel Wilkinson from MGB Exports Limited explains why they love the company

"We have been using Identify Direct for over five years now and have always had a great relationship. Enquiries are always answered very quickly, fast turnaround on shipments where possible and we are kept up-to-date."

For more information on Identify Direct's product range see details below

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Electronics Update



High Quality Panel Mount Indicators

CML IT continues to be the number one supplier of panel mount indicators, LED lamp replacements and LED tower lamp solutions. PMI highlights include:

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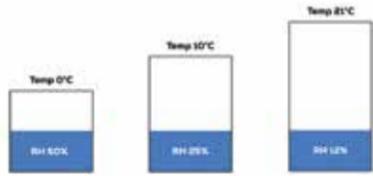


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Humidity in the winter

Humidity levels drop in the winter because cold air holds less moisture than warm air. Many large buildings, warehouses and factories use air handling units to ventilate and heat large areas. These units take the cold dry air from outside and convert it to warm air inside. The problem gets worse when the dry air heats as it loses even more moisture, resulting in lower relative humidity.



The Science
Relative humidity is the amount of water vapour actually in the air, expressed as a percentage of the maximum amount of water vapour the air can hold at the same temperature.

At any given moment an air molecule will hold a certain amount of moisture – more on rainy days than hot sunny days. In winter, cold outside air (whether 'wet' or 'dry') is brought inside and heated. As air heats it expands, but the actual moisture content of each molecule cannot change, and therefore the relative humidity falls.

It is widely acknowledged that maintaining relative humidity levels between 40-60% significantly improves human well-being and mechanical performance. Read more to find out how low humidity effects both human and mechanical production.

How does low humidity effect our wellbeing?
Low indoor relative humidity has a negative effect on human comfort. The adult human body is typically 60% water, so in a dry environment our bodies naturally lose moisture. Unlike temperature, low humidity is more difficult to detect.

- Typical symptoms include:**
- ▼ Dry and itchy skin
 - ▼ Cracked lips
 - ▼ Dry eyes (especially for those with contact lens)
 - ▼ Sore throats
 - ▼ Nosebleeds
 - ▼ Headaches



In addition, low relative humidity dries our mucous membranes and inhibits our body's natural defence against germs, viruses, and bacteria, making us much more vulnerable to catching common colds and flus. Maintaining relative humidity between 40-60% is scientifically proven to reduce the spread of airborne pollutants and viruses.

How does low humidity effect mechanical processes?
Moisture absorption also affects hygroscopic materials like wood and paper. The low humidity dries out these materials causing them to shrink, curl, crack or split. When these materials pass through machines, usually at high speeds, it causes paper jams and machine breakdowns. A list of common problems is listed below:

- ▼ Static electricity build-up and ESD
- ▼ Drying out of hygroscopic materials like wood and paper
- ▼ Paper jams and machine breakdowns
- ▼ Increased wastage
- ▼ Decreased productivity

The Solution
There is a wide range of humidifiers and a variety of factors to consider in selecting the right humidifier for each building or application, such as energy use, water supply, cold water or steam, gas or electric, evaporative or spray, humidifier situation, control compatibility and maintenance needs. It is therefore important to seek advice from specialists who can provide guidance and design a bespoke



system that will serve each unique specification. Installation, commissioning, spare parts, ongoing service and maintenance costs also need to be considered, and a planned maintenance contract is recommended to ensure equipment is kept in good working order and the initial investment is not wasted.

Humidity Solutions have a team of experienced and highly knowledgeable engineers who can advise on a full range of

applications and provide a complete turnkey solution, providing reassurance for the customer and protecting their investment in both their people and their machinery.

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Recycling UK Limited

Recycling UK is one of the largest independent recycling companies/traders in the United Kingdom.

From its head office at Tarporley, Cheshire, and associate processing plants throughout the UK & Ireland, it can cover most recycling needs. It also has office/joint ventures in Mumbai, India, and Waterford, Ireland.

It is a trader of all grades of waste paper & plastic in the form of bulk loose, baled, or

palletised material, surplus or damaged reels & redundant stock of paper and plastic packaging and supply material to customers in the UK, Europe, India and throughout Asia.

Its wholly owned subsidiary OWP Ltd processes over 1,500 tonnes per week at a dedicated plant at Oswestry situated on the England/Welsh border with material collected by various means within a 150 mile radius.

It also collects material throughout the UK and



Ireland using trailers for delivery to Oswestry or to one of our associate processing plants.

Please contact our commercial team on +44 (0)1829 732471 or email: commercial@rukgroup.com or visit: www.rukgroup.com

Women in utilities



At Lanes Group, one of our most important principles is making sure that all staff members are welcomed and treated fairly and equally, and that nobody joining our team is ever made to face additional barriers as a result of their identity. As such, we consider it a top priority to ensure that women engineers and other female staff members are given every chance to succeed here.

We employ a large number of women in various roles across our entire organisation, from field-based engineering roles through to office-based administrative positions. Gender is no barrier to a long and successful career at Lanes, and our female staff speak positively of the supportive environment and equal opportunities they have received in their time with us.

No matter what kind of role you are seeking at Lanes as a female candidate, you will be valued as an equal member of the team. You will also have ample opportunity to build your skills and take on leadership roles at the UK's largest privately-owned specialist drainage and wastewater contractor.

You can find out more about the work we do to support women engineers and female staff in our workplace on our website. You can also browse our full range of job opportunities today to start your professional journey with Lanes Group.

<https://careers.lanesgroup.com/>

ACI Group achieves UK first with Social Value Quality Mark

ACI Group, a leading distributor working with some of the largest global food, pharma, industrial and road businesses, has become the UK's first distributor to achieve the esteemed Social Value Quality Mark (SVQM) – an award that aims to cultivate and recognise the highest known standards in values-led business.



To mark its journey towards a sustainable business model, the Berkshire-based company has announced recently that it will redefine what sustainability means under its distributor as a service model.

As part of a series of pledges for the SVQM, ACI Group aims to positively disrupt the market by taking pivotal steps to demonstrate its commitment to both people and the planet.

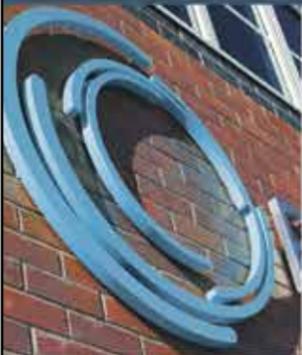
"We are passionate about service and sustainability in the supply chain – and we want to start making a difference in our customer supply chain today," comments Karsten Smet, Director at ACI Group. "Consumers want demonstrable proof of sustainability claims from the brands they purchase from, they want to understand where their products have originated and how they are made. At ACI Group, we want to help our customers and suppliers ensure that any sustainability claim is measured from the outset."

For further information about the Social Value Quality Mark, please visit: www.socialvaluequalitymark.com

To find out more about ACI Group and its activities, visit: www.acigroup.biz



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Do more to protect against floods – there is ‘Noah alternative’

Manufacturers should urgently review the condition of their drainage systems to guard against the risk of flooding, advises Kevin Moon, Managing Director of drainage and wastewater specialist Lanes Group plc.

The summer heatwave and subsequent warnings about flash floods demonstrates there is no room for complacency when it comes to factory site drainage as climate change takes hold.

Kevin Moon added: “We recommend that manufacturers review their flooding risks and the condition of their site drainage systems, as a key part of business continuity planning, as we head into autumn.

“Climate change is likely to put greater strain on site drainage systems. If they fail, the commercial consequences could be catastrophic.

“Making sure site drainage is in as good condition as possible, in terms of being free of debris that can disrupt water flows and reduce capacity and in good repair, should be a priority in situations like this.”

Lanes Group is the UK’s largest drainage and wastewater specialist. It helps thousands of businesses across the UK protect their properties through planned and reactive site drainage cleaning and maintenance services.



The company also delivers sewer unblocking, repair and rehabilitation services for many water companies, including Thames Water, Severn Trent, Northumbrian Water and Scottish Water.

Lanes has put together a 7-step check list to support a site drainage resilience review:

1. Is your property location at particular risk of localised flooding?
2. Do you have an accurate and up to date map of your site drainage system and assessments of its condition and capacity? These can only be obtained by a drainage specialist carrying out a full site CCTV drainage survey.
3. Is the planned preventative maintenance schedule for the property's drainage system up to date? Has the drainage system been cleaned in the last 12 months?
4. Are you already experiencing any problems with your drainage system? Does water pool on surfaces around your property after it rains? Do sinks drain and toilets flush properly?
5. Are water courses around your property in optimum condition? Are storm culverts serving your site regularly inspected and cleaned?
6. Has there been any extensive building carried out recently that might affect your site drainage system?
7. Do you have emergency preparations in place if a flood occurs? This may include access to an emergency response service from a reputable drainage specialist and plans to protect assets and deliver services from a different location.

Just like clean water pipes, surface water drains and sewers can be affected by the seasonal contraction and expansion of clay soils, resulting in pipe joints being displaced, pipes cracking or even collapsing.

This problem is expected to become more commonplace due to climate change, with northern areas of the UK increasingly affected for the first time due to changing weather patterns.

During prolonged periods of dry weather, tree root systems grow more aggressively as they search for water and nutrients, increasing the risk of root infestation of drainage pipes.

Low flow rates in sewers and surface water drains during dry weather allow heavier solid material and debris washed into the system to build up, compromising its capacity, increasing the risk of flooding.

Kevin Moon said: “Climate change is creating more volatile, more unpredictable weather. This, in turn, means the condition of site drainage systems can change more rapidly than in previous times.

“The only answer is to tighten planned preventative maintenance systems, with more frequent and thorough inspection and drain cleaning regimes, beginning with asking the questions detailed in our drainage resilience checklist. “The alternative may be to expose business sites to greater risk of serious flooding events and the far greater costs they incur.”

For more information, see below:

www.lanesfordrains.co.uk






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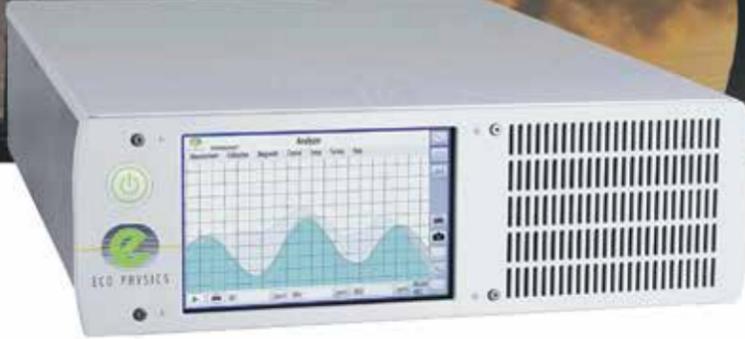
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ECO PHYSICS nCLD "Facelift" boxed solutions

AL, AL², EL S, EL, EL²



Measurement of NO · NO₂ · NO_x

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

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Biral to install its SWS-250 weather sensors across Greece after major project win with the Hellenic National Meteorological Service

Leading meteorological expert, Biral, will install 80 of its SWS-250 weather sensors across Greece after winning a major project with the Hellenic National Meteorological Service, a government agency responsible for making weather forecasts and observations across the country.

Working with Microstep, the two-year project provides comprehensive meteorological information to critical productive and developmental sectors, such as public bodies and educational and research institutions. It will also include the expansion of Greece's existing network of Automated

Weather Stations (AWS) for the measurement, recording and processing of meteorological data on a 24-hour basis.

Additionally, the project will upgrade existing upper atmosphere stations with Automated Radiosonde Systems (ARS) for the measurement, recording and processing of meteorological data.

Biral's SWS-250 weather sensor is optimised for use in aviation applications where both visibility and extended present and past weather information is required. With its

ultimate visibility performance, the visual range can extend to 99.99km, allowing for use in meteorological observation networks and research applications.

Nathan Neal, Marketing Director at Biral, said: "Many companies now recognise our weather sensors as being the most sensitive and accurate on the market, so we're pleased they have been chosen by the Hellenic National Meteorological Service."

www.biral.com



WATER-I.D.®

WATER TESTING EQUIPMENT ●●●

PRIMELAB 2.0

THE ULTIMATE PHOTOMETER

- MORE THAN 140 PARAMETERS
- 18 WAVELENGTHS (410-940 NM)
- 5.5" COLOUR | HD TOUCH DISPLAY
- ANIMATED ONSCREEN INSTRUCTIONS
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*FOR CHARGING, DATA TRANSFER, PROBE CONNECTION AND 4G** MODEM

**VIA USB INTERNET STICK | ACCESSORIES | POSSIBLY SUBJECT TO A CHARGE FOR CONNECTION

WATER TESTING EQUIPMENT
MADE IN GERMANY

PrimeLab 2.0 - The ultimate photometer for water testing

Water-i.d. proudly presents its latest photometer for water testing, the PrimeLab 2.0 which can truly be called "The Ultimate Photometer".

The amazing PrimeLab 2.0 offers users more than 140 parameters to flexibly choose from and an 18 wavelengths parallel reading sensor-set-up -compared to common high-end photometers for highest accuracy. The PrimeLab 2.0 is equipped with a 5.5" colour-touch-HD-display as well as with a WiFi option to communicate directly or via mobile phone with the free and powerful LabCOM software, App and cloud. In addition a QR-scanning camera is included to recognize reagents, water sources and much more. The PrimeLab 2.0 has also the capability to connect electrodes via a small box and USB for pH/EC/ORP and temperature for measuring and managing these results.

The PrimeLab 2.0 offers a step-by-step guidance for all parameters including animated graphics and many different languages to suit users across the globe.

Adapters simplify the change between 24mm / 16mm and 1ml cuvettes to ensure the best path-lengths for the different methods. Different path lengths are needed for example for the determination of Chlorine, COD, the 1-hour quantitative and certified Legionella test or for using the in-built 90° board, NTU-Turbidity, PTSA and fluorescence. These are just a few of the mentioned more than 140 different parameters the PrimeLab 2.0 has to offer.

A rechargeable 8,400 mA inbuilt Li-Io-battery ensures high performance and long operation time. Memory in the GB-range allows the storage of almost unlimited test results, all connected to water sites which the user can enter individually.

Overview

- ▼ More than 140 Parameters
- ▼ 18 Wavelengths (410-940 nm)
- ▼ 5.5" Colour/HD Touchscreen
- ▼ Multi-Connectivity (WIFI/USB/4G/5G/Bluetooth)
- ▼ Free Software (LabCOM) / App / Cloud including individual accounts and full reporting system
- ▼ Cuvettes/Adapters: 24mm/16mm/1ml
- ▼ Step-by step on screen instructions with animations
- ▼ Camera (QR-Code Scanner)
- ▼ USB Type C (charging, probe connection, data transfer and 4/5G-modem)
- ▼ Rechargeable 8400 mAh Li-Ion Battery
- ▼ Turbidity (NTU), PTSA, Fluorescein built-In (90° Detector)
- ▼ Probe-Connector (pH/EC/TDS/Temp/ORP)

www.water-id.com



Test & Measurements Update

Interface G-series load cells fly off the shelves through its new e-commerce website



Interface Force Measurement Solutions (Interface) is a UK company specialising in the supply and distribution of high-quality sensors and associated electronics and displays for a wide variety of industries. Working previously with clients such as Airbus, BAE Systems, and Formula One Teams, we spoke with Tony Rokins, Business Development & Pressure Mapping Specialist, who explained some of the companies well known products.

“Our product portfolio is applicable to many industries. For instance, we are well known for our high-quality pressure mapping systems that are used by many of our automotive and motorsport customers. Our sensors deliver highly accurate, repeatable measurements and many of our load cells are used by calibration houses as calibration reference devices. Our high-quality, yet competitively priced 3 and 6 axis load cells are used for many R&D, renewable energy and robotic applications.”



In terms of recent developments, Tony continued, “Being responsive to our customer’s needs and being able to offer a high-quality product with strong product knowledge at a competitive price with the best possible lead times is our number one priority. Last year we launched our range of G-Series Load Cells. The range comprises of miniature and small sensors for industrial applications, with capacities starting from just 4.5N Newton up to 200kN with metric threads. These are high-performance devices but aimed at more cost-conscious applications. This is a new market for us, but we have already had increasing interest. We also launched our brand-new e-commerce website on the 1st of April for the G-Series that showcases Interface load cells at competitive prices with all the convenience purchasing online offers,” stated Tony.

The new e-commerce website offers G-Series load cells on short lead times with next business day delivery for small quantities. Following its successful launch in 2021, it has become an increasingly popular product range for students, industrial engineers, OEMs and anyone requiring a small form force sensor offering accuracy, repeatability and Interface quality.

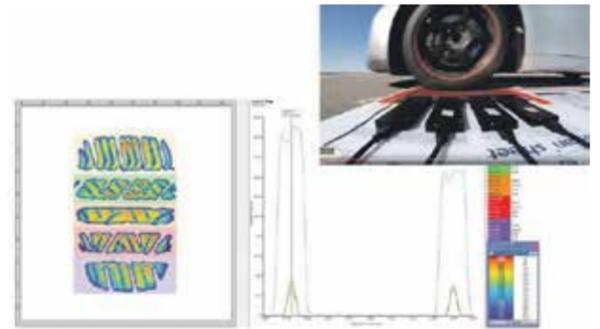
In the future, Interface is keen to continue its growth trajectory for 2022. Tony mentioned, “we are also working on new, wireless force and vibration sensors for remote monitoring in systems such as luggage carousels. One more area we are pushing for growth is with XSensor’s pressure mapping systems, particularly in the Hi-speed systems designed for high-speed impact or crash testing and tire foot-print research. These systems are capable of capturing data up to 2,500 frames per second. The tire sensor can be driven over at speeds of up to 140kph. I believe this is a unique capability we can bring to the industry.”

As the company looks to continue strengthening its position with its customers in its more traditional markets of aerospace, automotive, motorsport, Universities and alternative energy research, it will be attending some expos over the next

12 months and be readily on hand to discuss any questions you may have about force, torque, pressure mapping or pressure, level & temperature measurement. These expos include Advanced Engineering 2nd & 3rd November 2022 Stand L150 at the NEC, Birmingham, and Instrumentation, Analysis & Testing Exhibition on the 16th May 2023 at

Silverstone Wing, Silverstone Race Circuit.

Contact
T 01344 776666
info@interface.uk.com
www.interfaceforce.co.uk



Fire Safety & Security Update



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Sunray is a leading supplier of Fire Rated Timber Doors. Our products are exceptional when it comes to the high quality veneer and paint finishes for Fire Doors.

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Reducing cut risks

Since its formation in 1993, The Safety Knife Company has become a leading manufacturer of safer cutting tools and has helped to prevent countless workplace injuries.

The company's original product, The Fish 200 Safety Knife, was the result of a chance conversation between the inventor, Bill Ireland MBE, and a farmer who had lost the sight in one eye after an accident cutting string on a hay bale. Once in production, the 'Fish Knife' soon found an industrial market as a safer alternative to an open blade knife for removing packaging materials.

Over time the range of products has gradually grown

to include other 'enclosed blade' safety knives and a variety of retractable blade knives. We are also a stockist for the innovative Slice ceramic blade cutters.

Most of our products are available in 'metal detectable' plastics making them suitable for use in food production areas.

We are regularly asked to solve specific problems by customers. Recent project examples include mounting a safety knife on a telescopic pole to enable operators to cut strapping from building materials on lorry trailers. This does away with the need to climb on to the trailer and therefore be 'working at height'.

NOVA Safety Knives. We are delighted to have been appointed as exclusive distributor for the UK and Ireland for the NOVA Safety Knife range in early 2021.

Our products are available from our web shop, through 100's of distributors or directly from our sales office. We also have experienced staff on hand to help you through the evaluation process if you are looking to introduce safety knives to your workplace.

For more information, see below:
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enquiries@safetyknife.net
www.safetyknife.net



THE FIRST POINT OF PROTECTION

OUR GLOVE RANGE INCLUDES

- ### ARC

Primarily developed for electrical ARC flash protection, our range of gloves offer many other benefits.
- ### IMPACT

Designed to protect the user's hands from injury if their grip was to slip or tools that are being used fall.
- ### CUT

A range of industrial cut resistant gloves that offer comfort to the user and cost effective solutions.
- ### SPECIALITY

Our specialist range of gloves protect the user in various environments including cold and chemical-based.
- ### GENERAL

The general handling glove range has been made from the best quality materials.
- ### BASIC

A quality economy, sustainable range to compete in a market of own-brand price-fighter gloves.

Manosun Hand Protection

A manufacturer and designer of industrial safety products

- Manosun was created during the 2020 global pandemic when industry took an all-time low in productivity.
- Located in South Tyneside, the co-creator of the brand has over 16 years of industrial product development and 15 years within manufacturing including Health & Safety.
- Our aim is to target the huge UK manufacturing sectors as well as power generation and conservation and offer a quality service, product and development ability, not all solutions can be found off the shelf.
- We work with your traditional distribution supply chain so no need to work outside of any contractual obligations, you are free to develop and select your PPE requirements.
- Manosun Ltd is also a member of the BSIF a sign and seal of quality and products that fulfil all UK and EU requirements of test and design.

Talk to Manosun for all of your hand protection needs

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Web: www.manosun.co.uk

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Environmental Science Group Limited – Keeping up with the changes to GHS Safety Data Sheets



At a recent seminar, it was announced that there would be new requirements to Safety Data Sheets (SDS) in compliance with GHS Regulation. SDS are legal documents required for UK

REACH Regulation and they contain important information necessary to allow employers to do a risk assessment as required by the Control of Substances Hazardous to Health (COSHH) Regulations.

The major changes for GHS SDS are summarised as follows:

- ▼ Unique Formular Identifier (UFI)
- ▼ Information on nanoforms
- ▼ Information on endocrine disrupting properties
- ▼ Information on Specific Concentration Limits (SCL), M-factor, ATE in Section 3
- ▼ Sensitisers, Carcinogens, Reproductive and Endocrine Disruptive Components have to be reported at lower levels
- ▼ Section 9 is aligned with the GHS
- ▼ Section 14

The Regulation came into force from 1 January 2021 which means that all new Safety Data Sheets will need to be produced taking into account the new requirements. All existing Safety Data Sheets will need to be updated by 31 December 2022.

As part of the annual maintenance service, ESG has responded to the needs of its clients by reviewing their SDS and updating them accordingly. In all cases, the SDS templates needed to be modified and data gathering to include in relevant sections of the SDS. In addition, where relevant, the corresponding COSHH Risk Assessments and WASP Hazard Sheets have been updated for their clients.

For further information, please contact:

T +44 (0)1354 653 222
enquiries@envsciencegroup.com
www.envsciencegroup.com

Breaking Down Automation Barriers



The World's Leading - One Stop Shop for Collaborative Applications

Where to start your journey in Automation?

OnRobot's solutions help small and mid-sized manufacturers optimize their processes and grow their businesses with greater flexibility, higher output and improved quality. Regardless of the robot brand, OnRobot provides compatibility and versatility beyond compare. It's everything manufacturers need from one supplier, providing even more value from the automation investment.

OnRobot is an application provider for Cobots, which makes production more efficient and cost-effectively. When the first robot applications appeared, the advantages were quickly recognized. This made collaborative applications the fastest-growing segment of the robot market.

Collaborative application solutions are fast, easy and affordable for efficient and productive processes.

What does automation do other than being a productivity tool?

One key advantage is that it gives the manufacturers flexibility, and this help ensure the wellbeing of the workers.

Collaborative automation keeps production running while skilled workers focus on jobs where their unique capabilities provide the most value.

Automating with the use of collaborative applications present manufacturers with new opportunities to build resilience and adaptability in productivity, competitiveness, and workforce.

The OnRobot Palletizing, intuitive software has been designed to ensure a fast set up, regardless of the end user's prior robotics deployment experience.

The Palletizer has a high-payload elevator with minimal deflection that ensures precise positioning of boxes, even at high speeds. OnRobot's Out-of-the-box palletizing integration solution shortens deployment time, and offers future-proof flexibility.



It is installed with the OnRobot 2FGP20 palletizing gripper, which offers a wide stroke and customizable arms to handle heavy or open boxes, shelf-ready products, and other containers that can't be handled with traditional vacuum grippers.

The OnRobot Palletizer also contains a Pallet Station, which is a durable, floor-mounted pallet fixture that ensures consistent positioning and includes a built-in sensor for detecting pallet presence.



Combining Hardware and Software

Get your FREE Palletizer eBook



BREAKING DOWN AUTOMATION BARRIERS
ONE SYSTEM, ZERO COMPLEXITY
www.onrobot.com

An Obvious Need



Danish company OnRobot is making automation easier and faster.

OnRobot believes deploying robotic applications on the manufacturing floor has been too complex and time-consuming for far too long. Therefore OnRobot has been working hard to break down these complexities and enable easier deployment from just one unified, automated platform.

The revolutionary approach with the use of **D:PLOY** will simplify the installation process even more, allowing the end user to focus on what truly matters in their production line and business.

“**D:PLOY** will be the industry’s first automated platform for deployment of collaborative applications. Enabling you to build, run, monitor, and re-deploy robotic applications from one platform. The **D:PLOY** platform will enable the automated deployment of these collaborative applications to create,

run, monitor and redeploy individual cobots from a single online environment. Configuration times can then be reduced by up to 90%.

D:PLOY will allow you to log into your account and build your application in a few simple steps, by setting a simple steps: the hardware and robot will be automatically detected, and once the hardware is setup the steps are as follow:

- Workspace definition**
- Application setup**
- Operate and monitor**
- Re-deploy**

Curious?
Sign up for updates about this exciting launch



Contact details

Contact OnRobot to find out more about what we can offer you:
north-europe@onrobot.com

Or visit our Learningsite on Collaborative applications know-how to all
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Making automation easier and faster than ever



BREAKING DOWN AUTOMATION BARRIERS
ONE PLATFORM, ZERO COMPLEXITY
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Why automation is not just for big corporations

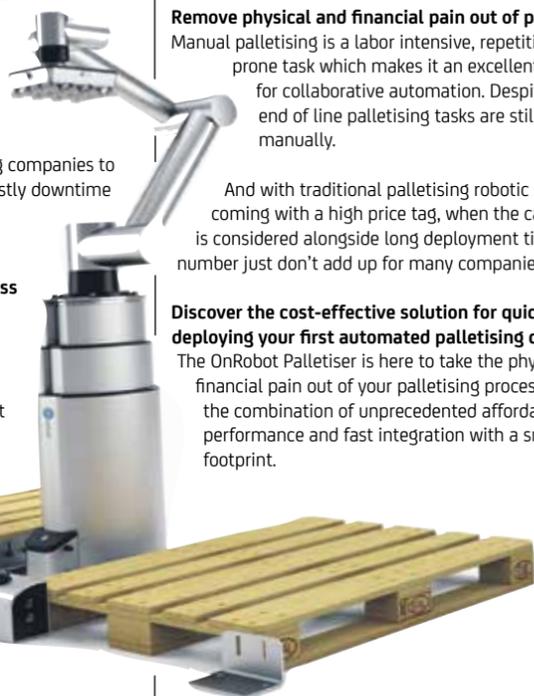
In the BC era (Before Collaboration), automation was the sole preserve of industrial giants with massive budgets. The emergence of collaborative robotic solutions, user friendly tools and intuitive software has changed all that. Nowadays, smart solutions are here to benefit businesses of any size.

Fast deployment at an affordable price point

Ready to use out-of-the-box, collaborative application solutions greatly simplify the deployment process, allowing companies to deploy automation with a minimum of costly downtime and at a fraction of the cost of traditional automation deployments.

Competitive advantages for your business

The competitive advantage conferred by automation range from increased productivity and throughput to enhanced reliability and improved quality. Collaborative application solutions hit that sweet spot between affordability, no-fuss usability, and flexible functionality that manufacturers demand.



Find out how automation can help you. Get in touch with an automation expert to start the automation journey! – sales@onrobot.com

Discover the OnRobot range of products and solutions, robot arm grippers and EOAT components: <https://onrobot.com/en/products-and-solutions>

Read more about collaborative automation for

your factory: <https://onrobot.com/en/blog/why-you-need-collaborative-automation>

Find out how others got started with automation: <https://onrobot.com/en/case-studies>

Remove physical and financial pain out of palletising

Manual palletising is a labor intensive, repetitive and injury prone task which makes it an excellent candidate for collaborative automation. Despite this, many end of line palletising tasks are still performed manually.

And with traditional palletising robotic solutions coming with a high price tag, when the capital outlay is considered alongside long deployment time, the number just don't add up for many companies.

Discover the cost-effective solution for quickly deploying your first automated palletising cell

The OnRobot Palletiser is here to take the physical and financial pain out of your palletising processes with the combination of unprecedented affordability, performance and fast integration with a small footprint.

OnRobot Palletiser is available as a complete out-of-the-box system or as individual components to create a mix-and-match solution that will work for your specific application needs.

Get in touch with one of our automation experts to find out



how we can help you automate your palletising processes: sales@onrobot.com

Read more about complete OnRobot Palletiser solution: <https://onrobot.com/en/solutions/onrobot-palletizer>

Discover other OnRobot solutions: <https://onrobot.com/en/products-and-solutions?area=8>

Collaborative palletising starts with your unique application needs

These days, workers are in short supply and product demand is high. Get ahead of your competition by automating your palletising processes.

Automating palletising provides fast return on investment even for smaller manufacturers and logistics organisations. It's cost-effective, quick to deploy, and offers the flexibility needed for high-mix, low-volume environments and peaks in demand. You get better consistency and higher productivity without overtime or injuries.

Your business needs first

The OnRobot Palletiser is available as a complete or the individual components can be combined for your perfect mix-and-match solution. This gives you the flexibility to define your system around your unique business needs, but with all the benefits of a single vendor:

- ▼ Faster deployment and easier changeovers
- ▼ Fits into existing layout and workflows
- ▼ Lowers total costs and speeds return on investment
- ▼ Future-proof for evolving business needs
- ▼ Fully tested, certified, and warranted for reliability

Get in touch with one of our automation experts to find out what palletising configuration is right for your facility: sales@onrobot.com

Learn how to build a palletising application: <https://learn.onrobot.com/en/palletizing-what-expect?area=8>

SOMETHING BIG IS ABOUT TO HAPPEN

Wave goodbye to automation barriers once and for all

Sign up to find out more

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www.onrobot.com

Choose Whittan for reliable storage

With rising costs and an uncertain market, almost everyone is looking for reliable ways to economise. Cutting costs is not always the answer and comprising on the quality and ongoing care of your storage equipment can be a false economy. After all, the provision of quality racking, storage, shelving, and lockers isn't just a 'nice to have' – there are also legal, regulatory and safety demands that have to be met. Investing in your racking and shelving can therefore reduce costs in the long run.

As the UK's leading manufacturer of storage, Whittan is well equipped to support every sector across the UK and Europe with a family of trusted brands: Link51, Apex, Polypal UK, Polypal Europe, HiStore, LinkLockers, Probe and LinBins.

Industry standards

Working in warehousing can be hazardous if companies don't follow the relevant rules and regulations. There are a number of industry-based accreditations which put safety at the heart of everything they do and Whittan is proud to say that our products and installation services meet the following accreditations and quality standards.

- ▼ British Safety Council is dedicated to making sure no-one is injured or made ill through their work. Members must follow strict codes of practice to develop better workplace practices and drive towards the highest health and safety standards.
- ▼ British Standards accreditation shows that goods and processes have been assessed against internally recognised standards and operate to the highest levels of quality and service.
- ▼ Constructionline is a qualification that enables buyers to quickly find subcontractors and material suppliers that are pre-qualified to government standards.
- ▼ CHAS (The Contractors Health and Safety Assessment Scheme) demonstrates a company's compliance with and sound management of current health and safety legislation.
- ▼ SafeContractor ensures compliance across the supply chain, by demonstrating that all current legislation and regulatory process are met, to ensure health and safety standards.

Meeting product standards

As a Full Manufacturing SEMA (Storage Equipment Manufacturer's Association) Member our products are submitted to independent product assessments. This guarantees they have been designed by a structural engineer to meet SEMA Codes and that system rigidity is calculated to meet precise criteria under specified conditions.

In other words, the racking will live up to the job it has been designed to do - carry heavy loads - and once loaded the rack and its components will not distort. To put it simply, when you purchase our products, you are also buying reassurance.

Meeting aftersales standards

All racking follows a circular pattern – you purchase the equipment, it gets installed and then it gets used. It's important to consider the total cost of



ownership, if not followed correctly it can rapidly accelerate the overall expenditure.

Your racking is classed as work equipment and under PUWER you must perform daily and weekly inspections by properly trained in-house employees. Do they provide training on how to conduct these inspections? You must also conduct a yearly 'expert' inspection by a qualified professional. Our SEMA Approved Racking Inspectors are skilled engineers who can assess your equipment and determine the safety and structural integrity of your pallet racking systems and warehouse safety.

What happens when your racking needs repairing? How easy will it be to get hold of the correct replacement parts? Whittan provides a comprehensive report and a quotation for repairing any damage.

Why buy British?

As a British based manufacturer, Whittan provides our customers with a local point of contact with continued support, a rapid repair and replacement service and the assurance of quality products that meet UK standards. This also means much shorter lead times, less risk in the supply chain and better customer service overall. So, no more worrying about delays or disruptions to your timeline!

Quality starts here

By selecting a racking and storage supplier whose own strict safety, health, environment, and quality practices are a priority, Whittan's customers will know that buying from them, they too are assured of those same exceptional standards in the products, equipment, and services they choose.

If you'd like to find out how we can help your business, then get in contact today for a free consultation. Visit www.whittan.com, email enquiries@whittan.com or call 01952 682251 for more information.

Whittan

Expanding capabilities with storage

NSK service robot technology supports frontline healthcare

NSK is working to assist society by developing new service robot technology, including robotic devices for moving patients in medical settings. In October 2021, the company joined a Japanese government initiative to implement robotic technology in hospitals and help prevent the spread of Covid-19. NSK is now working to develop its robotic technologies further through dialogue with frontline medical staff.



The prototype of NSK's motorised assistance robot installed at the base of a stretcher

New robots are currently in development around the world to assist humans and help solve societal issues. As part of this effort, NSK wants to create robots for use in settings where many people are moving around, including medical facilities and hospitals. The company's smooth movement and low noise technologies are ideal for robotic applications in this field.

Among the candidates for development at the initial planning stage was an autonomous mobile robot. However, after observing the inner workings of a hospital, with its narrow corridors and high footfall rates, NSK concluded that a motorised assistance robot which could help staff during patient transfer would be a more useful contribution to workplace efficiency.

The company knew that its proposed robot could reduce the physical burden on medical staff and help facilitate work-style reform in the healthcare sector. Based on this approach, the company built a robotic prototype that helps staff to move heavy objects such as stretchers and trolleys in hospitals. As part of the Japanese government initiative, NSK is currently demonstrating the use of its motorised assistance robot at a major hospital. The end goal is eventual adoption by the healthcare sector for daily use.

NSK is focusing on essential user issues when developing the assist robot, deploying idea verification in short cycles. For example, rather than spending three years to develop the robot in its entirety, NSK is seeking feedback from customers every three months, implementing improvements incrementally during the development process.

The robot developed by NSK uses a motor drive that facilitates smooth starting and acceleration, as well as deceleration and tight turns. NSK ultimately wants



Participants in the technology demonstration project at a major hospital in Japan

to create a usable robot that fits user requirements, leveraging its know-how to aid people working in frontline healthcare. Innovative projects of this type support the company's ethos of better meeting

the needs of society, while simultaneously creating opportunities for new business growth.

www.nsk.com

Packaging Company Of The Month

What do electrical vehicle manufacturers and BW Flexible Systems have in common?



We want to create a better world, holistic approach required.

Sustainability needs to be more than just a cool term to throw around. It's a mindset and a vital part of the conversation that all people and all companies globally must include in their strategies.

We believe it is most important to have a conversation of the entire story, not just one chapter. A holistic and realistic approach to sustainability.

We do not claim we are sustainability experts nor that we have the perfect answer for every solution. However, our eyes look to the future. Our vision and strategy are based on what could and will be: A better world.

When it comes to sustainability in the packaging industry, the discussion is often polarized around the packaging materials used: Recyclable, compostable, paper. If you've ever



worked with any of these materials, you know there are both advantages and disadvantages, it's not as easy as it sounds. For example, paper and some other sustainable films can decrease shelf-life of the product, resulting in increased food waste and a net increase in CO₂ emissions.

There are alternative opportunities to becoming more sustainable, including reducing food waste through alternative film and sealing technologies, investment in higher efficiency equipment, and pre-planned maintenance



of your production lines to ensure those efficiencies are maintained.

Purchasing a lower cost piece of equipment can affect all aspects of manufacturing if it needs expensive and time-consuming repairs, so we need to consider the Total Cost of Ownership (TCO) to deliver sustainable solutions.

There is no perfect solution available yet, but if we never start searching for one, we will never find one.



At BW Flexible Systems, we stay true to our name. We're flexible not only in finding flexible packaging solutions for our customers but also in the way we work: we're a team with versatile experience from all around the world that shares resources, insight, best practices, and perspectives to give our customers a dedicated experience and to find the best possible solution.

Sustainability in packaging is not a one-size-fits-all issue. At BW Flexible Systems, we work with you to understand your goals and priorities, identify your challenges, and map out sustainable solutions that are appropriate to you and your business.

With over 100 years of experience building packaging machines, we've seen packaging materials come and go, so we stay up-to-date on the latest innovations in packaging materials sciences. Our knowledge will help you cut through the noise to find the packaging material that best suits your product and your goals.

We enjoy working with our customers to develop the solutions they want and need, including finding opportunities for sustainable practices.

Your priorities are our key drivers, and if we are moving in the right direction, we will find many opportunities to make this a better world.

Let's do it together.

www.bwpackagingsystems.com

UNISIG Deep Hole Drilling Systems: Perfection is never an accident

UNISIG produces deep hole drilling machines that are used around the world by nearly every industry imaginable – and at UNISIG, striving for perfection has never been an accident. To secure long-term success, the company decided to further invest in machining its own precision parts rather than subcontracting components, as some of the most critical parts they produced have tolerances and complexity that cannot be made by most machine shops.

To machine their own parts while continuing to grow and develop new products, UNISIG embarked on a new approach to machining which would allow for industry-leading CNC machine tool accuracy and performance to be coupled with new technology that would ultimately eliminate manual intervention in machining that prevails in many shops.

“The deliberate connection between engineering, design, and machining improves our product. Our ability to rely on very high accuracy and productivity from our internal machining capacity allows UNISIG to provide more advanced solutions and value to its customers,” said Anthony Fetting, CEO of UNISIG.

Automated machining was the goal, which required a change in thinking by the team’s engineers, programmers, and machinists. To harness this new direction, UNISIG put in the time and energy to secure the best manufacturing resources available, including several Okuma machine tools.

To begin, UNISIG devised a plan to combine modular fixturing, offline tool setup, and full simulation of the machine, workpiece, and tools to provide a platform of innovation within their machine shop. The team’s intent was to radically improve spindle uptime and exploit the full potential of automated CNC machining, even when the batch size would be only one part.

The first step of the UNISIG strategy was to move away from classic CNC boring mills and adopt the higher productivity potential of CNC horizontal machining centres with twin pallets. After consulting with credible industry sources and leveraging their internal team’s knowledge, the MB-10000H horizontal machining centre from Okuma was selected for medium-sized, high-accuracy part machining.

One of the most important factors in this capital investment was the need to trust the machine accuracy enough to program from its centre of rotation and let the machine run without stopping and manually verifying the machining process many times during the cycle. The Okuma MB-10000H installation was a success and reinforced UNISIG’s wisdom to focus on automated machining – and the benefits were so extraordinary that UNISIG continued to look to additional Okuma solutions to bring its strategic vision to life.

UNISIG’s next target was large-part machining. Previously, to hold the finished machine tolerances, extensive hand scraping was necessary which added a lot of time and expense to produce these machines. UNISIG established a set of machining accuracy parameters that would eliminate much of this handwork to achieve tolerances.

Working directly with the local distributor, Morris Midwest, UNISIG was able to engage with Okuma America and Okuma Corporation’s technical leadership to tailor the specification of an Okuma MCR-A5CII 35x10 double column machine for the exacting geometry and overall volumetric accuracy needed.

The collective Okuma team ensured the MCR-A5CII machine tool specifications were defined and perfect for UNISIG’s application. A quick-change fixture system was developed by UNISIG to allow two parts up to 3m (10ft) long to be machined

simultaneously and removed for setup offline. The results after installation were very impressive, allowing lights-out automatic machining of parts previously not possible for UNISIG to manufacture.

With two machines from Okuma running and performing to expectations, one more opportunity identified for upgrade resulted in the new MA-12500 machine. The OSP Control common to these three Okuma machines was

a big value to the programming and simulation group at UNISIG. “This baseline trust in Okuma is what allows UNISIG to excel at advanced manufacturing,” said Mr Fetting.

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Cleaning & Facilities Update

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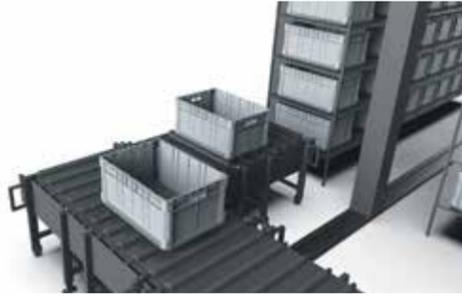
New sustainable packaging and supply chain solutions

In this issue of Industry Update, we are pleased to announce Loadhog as our Sustainable Packaging Solutions Company of the Month.

Loadhog is a globally renowned multi-award-winning UK manufacturer that is dedicated to the design and manufacture, sale and pooling of Returnable Transit Packaging solutions. Ranked as one of the UK's fastest growing SMEs in 2017 for international exports in the annual Sunday Times Export Track, Loadhog serves a number of different industries including automotive & manufacturing, retail, postal, food, beverage and non-food sectors.



Since its establishment in 2003, the company has committed itself to introducing new paths and products designed with the express purpose of solving customers packaging and transport problems. Every sustainable solution designed at The Hogworks – Loadhogs HQ, can and will save companies value time, money and labour.



Interestingly, Loadhog is and always has been owned by its employees, bestowing a culture of power to every individual involved. From its HQ in Sheffield, UK to its other offices based in Obernai, France and Chicago, USA, Loadhog continues to develop innovative solutions to the unseen supply chain issues.



"We far outweigh any competitor because through intelligent design we can offer additional vehicle fill, less damages, and more longevity through use of better material with better impact properties, our products always solve a problem," stated Shaun Khan, Managing Director.

Over the last two years, Loadhog has entered the

automation arena where its products are used in fully automated warehouses. One product that is specifically suitable for all conveyors and transfer units is the Autotote 6545, and this is because it features an optimised base design that reduces deflection and noise. It's 100% closed underside ensures a smooth and silent running which protects the longevity of the conveyor belt and increases the base's strength by more than 30%. There is also an option for drainage holes that are compliant with FM Global/VDS regulations and comes with a number of other different options and accessories.

Another market Loadhog is keen to enter in 2023 is the intralogistics market. Shaun explained, "2023 will bring some positive and new changes. Firstly, we have decided to set up a new manufacturing facility in Obernai, Strasbourg. It will be a 55,000 sq ft manufacturing facility used to serve our European customers better on all service and support levels. We are also heavily concentrating on targeting the intralogistics market as this market heavily relates to automated warehouses to which our Autotote and Autotray products are particularly useful for.



Tying in with its 2030 Vision, the company will always endeavour to create innovation, service and sustainability across all areas. By committing itself to reachable goals such as having all products 100% recyclable by 2025, by Loadhog's 25th birthday it also estimates that it will



be sending 0% waste to landfill with minimal carbon emissions as well as investing heavily into targeting overall material usage of recycled plastic to 90%, which will be up by 60% on last year. 2023 will also see the company celebrate its 20th year, and its recent success in ecommerce which enabled the company to nearly double its sales turnover to £30m throughout COVID-19 only goes to show how influential, innovative and ground-breaking Loadhog's products are.

For more information, see below.

T 0114 2800 800
info@loadhog.com
www.loadhog.com

Innovative hyperspectral food inspection system wins award at the ALL4Pack 2022 show

Industry Update is delighted to welcome back Engilico as our Company of the Month after previously winning INU's Company of the Year in 2020.

This multi-award-winning packaging solutions company is based in Belgium with offices in Germany and the USA. In 2021 Engilico was acquired by the Japanese PACRAFT packaging company (part of the larger industrial group Nabtesco) expanding the customer base to a global market.



Renaat van Cauter, Marketing Director details the company's services.

"Engilico (Rotselaar, Belgium) delivers innovative technologies to inspect, monitor and optimise the sealing process of flexible and rigid packaging. These technologies enable customers to obtain better quality packaging, higher packaging productivity and end-of-line automation. Our



customers are packaging a wide variety of products such as perishable foods, ready-food, cereals, snacks, herbs, powders, but also pet food and wet wipes."

The award-winning HyperScope® system inspects seals on plastic or cardboard trays, pots and other thermoformed packages. This state-of-the-art system combines hyperspectral imaging and artificial intelligence to detect seal contamination. The ingenious design can detect seal area independent of packaging orientation, material, layout or size. Renaat proudly explains the precision nature of the system

"HyperScope® is based on innovative, hyperspectral imaging. This goes beyond standard vision systems since HyperScope® identifies seal contamination via the detection of chemical differences through the measured light resulting in a higher contrast. Whereas standard vision cameras typically look at colour differences in visible light, hyperspectral cameras may cover a broader wavelength range from visible to near-infrared, looking simultaneously at multiple wavelengths. This precision technology can separate different materials such as fat, meat, oil, water and can even see through, printed foil. Because this enhanced vision system 'sees' material differences it can detect yellow cheese within a camouflaged yellow cover."

Engilico is committed to sustainable development and the HyperScope® can detect contamination within non-plastic packaging such as opaque cardboard backing or containers using a light source and camera placed directly above.

This precision technology targets seal integrity to give the food industry peace of mind with food producers and



distribution companies needing to adhere to strict industry food hygiene regulations across all their products. Problematic sealing can lead to leakage and result in reduced shelf life, food bacteria such as salmonella or E.coli and expensive product recalls. This can lead to serious brand damaging consequences for companies. Engilico can prevent these costly, damaging risks for companies through specialist in-line seal inspections on all manner of packaging from the more rigid tray, pot or thermoformed packaging through to flexible pouch, bag or flow wrap styles. Renaat explains how the SealScope® works with flexible packaging

"SealScope®, our solution for seal inspection of flexible packaging is an in-line, non-destructive, full-proof inspection and monitoring tool. It instantly rejects packaging with seal defects providing continuous feedback. The main benefit

is that it enables customers to realise a better outgoing packaging quality and higher packaging productivity. Traditional seal integrity is often sample based with a manual process that is slow to highlight production issues. SealScope® is machine-brand independent and can be retrofitted to a wide range of packaging machines from brands such as PACRAFT, Fuji, Omori, Ilapak, Ulma and many more."

To view the food inspection systems see the website below.

T +32 16498130
info@engilico.com
www.engilico.com



Cleenol and its Easidose range

Cleenol announced this year it was rebranding its market-leading Evolution 1000 range as Easidose.

The name of the new range was chosen in recognition of its 'easy to dose' characteristics, as Paul Twiss, Head of Marketing at Cleenol, explains: "Our Evolution Super Concentrates system redefined cleaning chemicals. As part of the range, we wanted to create an additional system that ran parallel with our wall mounted dosing systems, one where the need for additional hardware wasn't required. We called it Evolution 1000".

"Now, after many years, we are proud to announce the new name for Evolution 1000," adds Paul. "We looked at the range and asked ourselves what makes this product so powerful and unique. The obvious answer was the superior cleaning power

of each product within the range, but, additionally, how easy it is to dose these products. This is why we were proud to introduce the brand new Easidose range".

Each bottle of Easidose has a specially designed measuring cup built directly into the bottle. Also embedded in the bottle is a feed tube which connects from the bottom of the bottle to the measuring cup above. A new range of universal heavy-duty refill flasks are available as part of the Easidose range and an updated Evolution 1.5 litre range. Both brands share a similar design, so the new flasks show both Easidose and Evolution logos.

The new Easidose range comprises multi-surface cleaners and degreasers, floor cleaners, anti-bacterial bath and washroom

cleaners, air fresheners, window and stainless-steel cleaners and toilet cleaners.

Cleenol's client portfolio includes local authorities, government departments and appointed distributors throughout the UK and worldwide, as well as wholesalers and stockists in a range of marketplaces.

The sectors it supplies to include cleaning and FM, hospitality, laundry, hotels and housekeeping, manufacturing, construction and flooring contractors, automotive and transport, tourism and leisure, education, healthcare and hairdressing.

For more information, see below: www.cleenol.com



Jangro's ntrl range receives vegan accreditation



Jangro, the largest network of independent janitorial and cleaning distributors in the UK and Ireland, is delighted to announce that ntrl, its innovative range of natural cleaning products, is registered with The Vegan Society's Vegan Trademark. An internationally recognised standard, The Vegan Society's Vegan Trademark certifies that all products registered are free of all animal use, in ingredients and testing.

The ntrl portfolio comprises thirteen products ideal for cleaning surfaces in a variety of environments. All use raw materials that are derived from plant-based extracts. Their natural formulas are 100% biodegradable, contain zero petrochemicals, and can reduce the product's carbon footprint by up to 85%. Products come super-concentrated too, giving more uses out of a single container.

The ntrl Washroom Cleaner and the ntrl Multi-Surface Cleaner also harness revolutionary, probiotic cleaning. Rather than killing germs with chemicals, probiotics use beneficial bacteria to colonise surfaces, in effect taking over the area, including deep into hard-to-reach cracks and crevices. This means they can help to reduce the presence of harmful bacteria on surfaces and carry on working after they have been cleaned.

Joanne Gilliard, CEO at Jangro, comments, 'The number of vegans in the UK quadrupled in the five years between 2014 and 2019 to make 600,000 vegans, or 1.16% of the Great British population. This trend doesn't appear to be slowing down any time soon – in fact, according to research over half (56%) of Brits adopt vegan buying behaviours such as buying vegan products. We are proud to add a certified vegan cleaning range to our offering. The Vegan Society's Trademark helps customers identify products that really are free from animal ingredients. We are thrilled that the ntrl range has been verified by The Vegan Society and can offer that added level of confidence.'

The full range includes: Washroom Cleaner; Toilet Cleaner; Foaming Washroom & Toilet Cleaner; Foam Hand Soap; Alcohol-Free Foam Hand Sanitiser; Multi-Surface Cleaner; Washing Up Liquid; Cleaner & Degreaser; Surface Sanitisers (available with and without fragrance); Organic Descaler; Kitchen Sanitiser; and an All-Surface Cleaner.

All packaging is recycled and recyclable. Since products are packaged into PCR (post-consumer recycled bottles), CO2 emissions are reduced and physical plastic pollution removed. Outer boxes are made from 100% recycled and FSC certified cardboard.

Produced to ISO 9001 and 14001 QMS standards, 100% of the range is made in the UK.

For more information, visit: www.jangro.net/ntrl

For more information about The Vegan Society's Trademark scheme, visit: www.vegansociety.com/the-vegan-trademark

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We began trading in 2007 – repairing and servicing electrical drainage equipment – and quickly became known for the quality of our work and exceptional service. Identifying a gap in the market, we reinvested profits back into the company: purchasing drain cameras and making them available for hire. This allowed our clients to take advantage of this technology, undertaking more advanced, profitable work without high up-front costs.

Devoted to providing our customers with an exceptional service, we help them access the equipment they need to complete jobs quickly and to

the highest standard.

Doing so consistently, we have established ourselves as a leading provider to the drainage industry. We've continued to reinvest in the company, adding new items to our hire fleet and developing products such as the innovative ManUp Key, a seal breaker for releasing seized access covers.

Contact
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www.draincamerarepairs.co.uk

Study by ClimatePartner shows major differences in the ecological footprint of cleaning wipes

As disposable wipes continue to be a popular choice in the industrial sector, a study by the climate-neutral consulting firm, ClimatePartner has shown the enormous ecological footprint of disposable cleaning cloths compared to reusable textile cloths.



The study looked at water and energy consumption, as well as CO₂ emissions during the manufacture (and use) of both types of wipes. The results showed significant differences, up to 40 times more, in the resources used to remove one kilogram of dirt.

A Mewa MEWATEX reusable cloth (based on an average use of 25 times) and two types of disposable wipes were tested; a 100% cellulose paper towel and a non-woven cloth made of 70% cellulose and 30% polypropylene. One usage was defined as picking up 1kg of dirt.

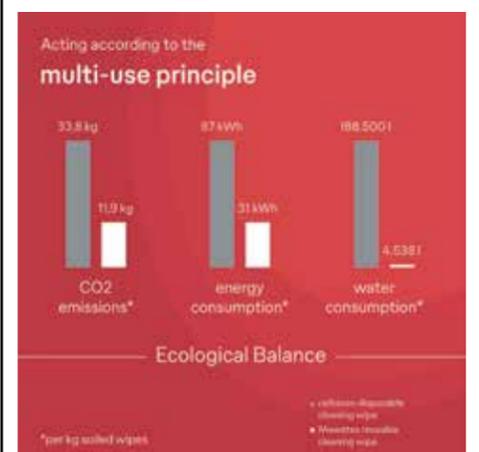
Among the results of the study, it was found that the total amount of water consumed when using a 100% disposable paper towel is 188,500 litres, compared to just 4,538 litres for the MEWATEX reusable wipe. The energy consumption during production was also clearly contrasting; a MEWATEX reusable cloth consumes nearly three times less energy than a disposable cloth with 87kWh compared to 31kWh for a reusable cloth.

In terms of greenhouse gas emissions generated, disposable wipes cause between 2.8 and 5 times more pollution than reusable cloths: 33.3 and 61.6kg of CO₂ compared to 11.9kg of CO₂.

Also remarkable was the difference in the amount of textile needed to make the cloths. The amount of textile used in a disposable paper-based cloth is 25.5 kg compared to just 0.5 kg for a Mewa cloth that has a cleaning life of up to 50 applications.

Commenting on the findings, Guenes Yenen, Mewa UK Managing Director, said, "It is obvious that the more often something is used before it is replaced, the smaller its environmental footprint, but what this study has worryingly revealed is how large the ecological footprint is to make a disposable cloth that is thrown away after a single use. Cleaning wipes are one of the most commonly used consumables in almost all industries. Millions and millions are used and disposed of every day. Companies need to rethink the impact of their choice of cleaning cloth on the environment."

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The Emergency Services Show Review

Award-winning blue light tradeshow brings cutting-edge solutions

The Emergency Services show was back at the NEC from the 21st-22nd September last year and was a roaring success with 12,000 visitors visiting over 500 industry-leading exhibitors. The event scooped up Best UK Tradeshow 2022 (more than 8,000 sqm) at The Association of Event Organisers (AEO).

The event covered many specialised areas such as: vehicles and fleet, medical, road safety and firefighting equipment, protective clothing and uniforms, search and rescue, extrication, water rescue, first response, community safety, station facilities and all the latest cutting-edge technology. There was a Future Policing area earmarked for specialised equipment, technology and training for the policing industry.

With thousands of key decision-makers visiting the exhibition, this really is the optimal place for networking and securing orders. This year's event included the latest drone capability,

thermal imaging, search and rescue dogs, hazmat suits, realistic and immersive firefighting situations.

The two-day event is unparalleled across the policing, fire, ambulance and search and rescue sectors and brings together live demonstrations, showcases product first-looks, networking, CPD accredited training and workshops and high-profile keynote speakers. It is renowned for launching new, innovative technological solutions in crime prevention, personnel safety and mountain, air and sea search and rescue.

Save the date: 19th-20th September 2023 NEC, Birmingham.

www.emergencyuk.com



H-Squared

You have probably never really thought about how important a battery is to your device, battery wholesalers - H-Squared - and Energizer were explaining at ESS how a lot of money can be saved by fitting the correct batteries to specific devices. Interestingly, depending on the application and usage, a battery costing less than half the price of another could cost more simply in the time taken to repeatedly change the battery. Not to mention damage your device potentially risks by using inadequate batteries.

Battery technology has advanced significantly in the last 10 years. There are batteries that focus on differing benefits depending on what's important to you – be it sustainability, performance, weight, or cost.

Buying your batteries and torches from a wholesaler like H-Squared is considerably cheaper than buying from retail outlets. Cost upfront may be larger due to the higher quantity but cost per item could be up to 70% cheaper!

The star of the show wasn't just the bright and rugged torches on display but batteries that are made from Lithium by Energizer. These batteries are the longest lasting, guaranteed to never leak, work in -40 temperatures, 30% lighter, and have a shelf life of 20 years!



Engineered textile company Heathcoat Fabrics enters 2023 on a high

Heathcoat Fabrics had an outstanding 2022 in terms of recognition within the UK textile industry. Alongside winning the Queen's Award for Enterprise for Innovation back in April 2022, the company was also recognised by showcasing the eco-responsible innovation of the UK textile sector at the Première Vision, Paris exhibition in July 2022 as well as receiving recognition for sustainability at the earlier Techtexil technical textile exhibition held in Frankfurt.

To top off a fantastic past 12 months, Heathcoat Fabrics were stand out exhibitors at The Emergency Services Show back in September 2022. Offering superior performance at the heart of protection, Heathcoat Fabrics has a portfolio of unique solutions bespoke designed to protect frontline firefighters. At the show, the company highlighted its latest high-performance products; Pbi PRO® and Kermel®CoreFX®, both of which are designed for the toughest demands, offering a market-leading mechanical strength, fire-resistant, lighter weight outershell for turnout gear.

These unique solutions come unrivalled not just in the UK but globally. Heathcoat Fabrics has been recognised as dominant leaders by some of the world's most respected



manufacturers of protective garments and equipment for more than 30 years. Heathcoat Fabrics were able to talk with and share information to customers from a range of emergency services sectors including Security, Police, Military, and Fire Services.

An extensive range of next to skin garments are also offered utilising fire-resistant knitted and woven textiles and incorporate fibres from well-known brands such as Kermel®, Kevlar®, Nomex®, PBI®, PBO, and others. If you are interested in finding out more on their range, see below.

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www.heathcoat.co.uk

Protect Signs

Protect Signs are an Award-Winning ISO accredited manufacturer of High-Quality Traffic Signage, bespoke signage for businesses, major corporations and the general public. They also offer an extensive range of Traffic safety and Road Guarding products.

Located on the outskirts of Weston-super-Mare, with excellent communications, they offer a Nationwide service to their large customer base.

Protect have been supplying the Emergency Services since being first established in 1968 and are recognised as the UK's leading supplier. They also service a number of overseas clients in Ireland, Spain, Europe and the Middle East.

Over the years Protect have continued to invest in their business and now operate with state-of-the-art digital printing technology as well as embracing and recognising the benefits of some traditional operational methods. This enables them to be proactive and reactive to their customers ever changing needs.

In 2022 Protect were awarded the National Framework Agreement to supply vehicle signage into the Police forces of the



UK, they pride themselves on their service which has led them to supply major Telecommunications, Utility & Traffic Management companies, local authorities, The AA and are the supplier of consumables to both the Traffic Officer and Asset delivery vehicles of National Highways.

Contact
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sales@protectsigns.uk

Black Rainbow

Black Rainbow was formed for the sole strategic intent of bringing a modern, intuitive, and innovative solution to market with our mission, to reduce the investigation lifecycle through intelligence, efficiency, and integrity. Our NIMBUS solution is the first integrated investigation case and quality management system available to the investigation and intelligence market. Our customers say NIMBUS is transformative.

We are streamlining the way investigations have previously been managed by providing a solution, which is user configurable and agile enough to evolve and adapt to emerging challenges. Organisations are no longer dependent on spreadsheets, unsupported open source, or siloed systems for their investigation management requirements. NIMBUS provides complete control and visibility of the full investigation lifecycle, supported with defensible evidence tracking, task management and reporting, all underpinned by compliance to latest quality standards and procedures.

With the integrated NIMBUS Quality management, you are systematically reducing administrative burden, ensuring evidenced conformity to quality and operational requirements. Using NIMBUS' flexible workflow engine, you can digitise your processes and procedures, enabling NIMBUS to always be current, relevant and a primary driver of risk management and

productivity improvements throughout the organisation.

Our mission is to reduce the investigation lifecycle through intelligence, efficiency and integrity.

Contact
Nikki Moscrop
info@blackrainbow.com



New projects and key brands establish Fischer Panda UK as valued integrated systems partner

In a milestone 2022, hybrid power solutions supplier Fischer Panda UK has proved its worth as a versatile and dependable partner to operators in the emergency services sector.

Backed by years of experience in delivering customised solutions for vehicles, Fischer Panda UK has completed significant projects, expanded its team and added key brands as part of its drive to develop the most innovative systems which also protect the environment.

The technical specialist integrator enhanced its full range of hybrid, mobile power equipment with Autoclima air-conditioning and refrigeration systems this year. Exclusive UK distribution for Autoclima will enable Fischer Panda UK to offer several market leading products, from multi-purpose roof mounted air conditioning to internal engine-driven solutions.



After over 12 years as Mastervolt's UK Technical Partner, Fischer Panda UK is now the exclusive UK distributor for ASG



brand's Mastervolt and Blue Sea Systems in the professional vehicle sector. Fischer Panda UK can provide power storage and system supply solutions benefiting from Mastervolt's technologically advanced Lithium Ion batteries.

Demonstrating its expertise as a partner, Fischer Panda UK collaborated with EMS Healthcare to supply and install hybrid mobile power applications on over 50 specialist vehicles used for vital medical services. The EMS Group 'Outreach Project' involved Fischer Panda UK integrating a solar powered battery system on each of the vehicles as part of new sustainability targets.

Discuss a partnership with Fischer Panda UK by email info@fischerpanda.co.uk, phone 01202 820840 or visit www.fischerpanda.co.uk.

Movena

Movena is a dynamic Belgian company, created in 2002 and specialized in automotive security glazing (windscreen, side and rear windows).

Our anti-bandit high impact performance windows are designed to protect vehicles occupants from urban violence. We currently equip vehicles for red and blue lights forces in France, Great Britain, Belgium, Italy, Sweden.



Our broad variety of solutions consists of laminated glass made with special composite interlayers as well as coated polycarbonate glazing and all our products comply with international performance and quality standards.

As an automotive glass manufacturer, we are constantly developing new and innovative ways to protect our customers.

Our first aim is protecting people by providing them with adequate and affordable security solutions against increasing urban violence.

Being a specialist in custom made solutions, we can also answer other needs such as noise reduction, IR protection, vehicle weight reduction...

Our team would be more than happy to provide you information about our products and solutions, do not hesitate to contact us.

info@movena.com
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Make better moulds: Mill better, drill faster

Mould making isn't easy. There are many intricate challenges that include: highly complex geometry with 2D and 3D features, managing a wide range of part sizes, and short lead times on small quantities and new designs with no room for error. Compounding these challenges is the pressure to keep up

with the rapid pace of demand and technology.

But there's a way to overcome those obstacles: Do better work with technology designed specifically for complex mould making.

Our USC-M series Milling and Drilling

Centres allow you to drill faster and mill better with a single machine and fewer setups. These Milling and Drilling Centres meet the challenges of milling and gundrilling all types of metals with either a single universal combination spindle or dedicated milling and drilling spindles. Utilising high performance spindles that provide exceptional rigidity

and power transmission, these machines deliver high-torque milling capability for aggressive metal removal and shorter cycle times. Additionally, 5-axis positioning enables mould manufacturers to tackle complex geometries with exacting precision in a single setup.

Many manufacturers claim to provide milling and drilling in a single machine, but the truth is those hybrid machines neither mill nor drill well enough to make a significant difference in either operation. In effect, one process is an afterthought of the other. Our USC-M series, however, was designed from the beginning to be a single machine with superior milling and drilling performance and accuracy. State-of-the-art milling technology is embedded into a machine that has the power, thrust, speed and process monitoring competitors thought would be difficult to attain, or simply not possible.

In addition to superior quality and accuracy, the pay-off for single setup milling and drilling is efficiency and an improved bottom line. Mould makers cut delivery times to their customers with faster setups and production along with reduced overall labor costs. Once they move away from mould making operations with two machines, most of our customers find they can't afford to manufacture without a USC-M-series Milling and Drilling Centre.

The benefits of milling better and drilling faster with USC-M series machines do not stop at the spindle. There are intangible benefits as well. UNISIG USC-M series Milling and Drilling Centres allow mould manufacturers to approach their work differently and explore different approaches to mould making. With the entire manufacturing process streamlined, customers find their engineers and design teams enjoy more freedom and flexibility with the expanded capabilities. Finishing and assembly are faster because the design is more efficient, and manufacturers can do things effortlessly that were a struggle previously.

Ultimately, it's about setting the bar high and keeping it there. UNISIG sets a standard looked up to by the competition. It's a state-of-the-art mindset that takes mould finishing to a new level with a machine that allows you to mill better and drill faster.

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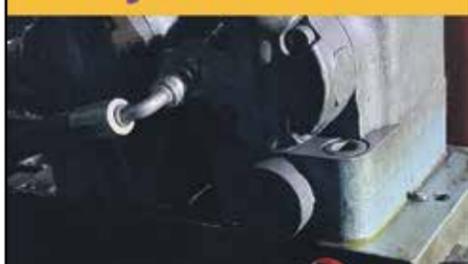


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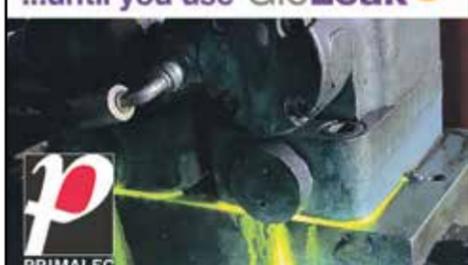
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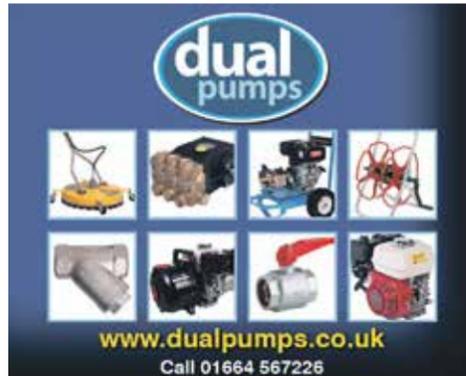


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Smart energy home management transforms green industry

Industry Update is delighted to award Clivet Group UK Ltd The Company Of The Month Award for its outstanding services in the heating, ventilation and air conditioning industry (HVAC.)

Clivet is a world-class European HVAC company providing an extensive range of air conditioning, heating systems, fresh air, and purification devices for the residential, commercial, and industrial sectors. The company is a conglomerate that is involved in the design process, production and transport distribution of all its products. The products carry Eurovent certification and complies with the Directives 2009/125/EC Energy related Products (ERP)

Bruno Bellò inaugurated the company in 1989 with a successful production of chillers and air-cooled heat pumps in Italy. The company soon snowballed and developed cutting-edge specialised roof-top unit systems, water loop heat pumps (WLHP) and residential systems.



design and installation work, improve the control of the entire system, reduce the environmental impact and at the same time optimise the initial investment, reduce running costs, increasing the building's energy rating and therefore its value on the market."

Clivet is going from strength-to-strength and in 2022 extended its Portsmouth premises by opening a state of the art training centre. Installers and engineers can learn how to operate variable refrigerant flow system (VRF) within a Clivet HVAC system. The VRF allows for precise, controlled temperatures in different rooms in a building. The training centre also accommodates training on split units and heat pumps. Clivet has employed 10 new members of staff across the sales and technical teams to further promote the popular heat pump product range and support customers with technical advice.

Clivet have been leading the sustainable green demand with heat pump production since 1989. Endorsed by environmental experts domestic heat pumps have the dual benefit of heating homes and offices without warming the climate. Powered by electricity they capture heat energy from the air or ground and concentrate it to heat up buildings. As the UK heads towards zero carbon targets



sector. The SPHERA EVO 2.0 heat pump range allows homes to be heated, cooled and run hot water from a fully electric or hybrid split monobloc air to water heat pump. The ELFOFresh EVO air renewal and purification system has a built-in active thermodynamic recovery and electrical filtration. Harnessing the sun's energy through solar electricity panels (photovoltaic) the Sinergy electrical energy storage system powers around 355W of energy (per panel) in strong sunlight but also works on typical British cloudy days! An inverter system converts the DC to AC electricity compatible with household appliances. With smart thermostats positioned in every room giving precise control over hot water and heating homeowners can rely on digital technology. More than just a thermostat the device will consider outside weather forecasts and adjust homes accordingly.

Andy maintains that digital technology is the way forward for smart energy home management

"The Clivet Eye app offers the convenient remote management of the entire heating, water and air system via smart phone!"

Not content with the European market Clivet has been promoting its full range



Andy Taylor General Manager Clivet Group UK Ltd explains the history of the British group

"Our headquarters are in Italy, in Feltre, where we have 50000 m2 of production site. We opened a branch in the UK in 2001 to be closer to our distributors, wholesalers and installers. Our operations are run from our offices in Portsmouth, but we have staff members based throughout the country. Clivet Group UK LTD operates nationally throughout England, Wales, and Scotland."

Winners of the Domestic Ventilation product of the Year at the Energy Savings Award 2022, the ELFOFresh EVO was voted for by industry professionals.

Andy Taylor, General Manager of Clivet UK was delighted and commented "The importance of indoor air quality has been widely acknowledged in recent years, but an effective ventilation solution needs to improve IAQ without wasting energy. Obtaining this award is a great recognition of our innovative energy saving technology for the air renewal and purification in our homes, which combines the high efficiency of air purification with the high efficiency of heat pump technology."

The building industry is obligated to consider building energy ratings from the design architecture stage to final construction. Clivet's specialised systems enhance the boiler, chiller and air handling units (AHU) in commercial, residential and industrial buildings futureproofing energy ratings.

Andy Taylor states that Clivet is wholly committed to sustainable environmental practice and carbon offsetting

"We believe that whilst our products provide comfort for people, they must achieve this with the comfort of the planet and environment in mind. Comfort for the planet and people."



heat pumps are increasingly being powered by renewable energy. The Clivet domestic monobloc heat pump is exceptionally high quality and available for delivery anywhere within the UK within 48 hours.

The demand for domestic heat pumps is so high that the Feltre production site is expanding to manage the increased demand

"We are building a new factory of 30.000 m2 in Italy specifically focused on the production of domestic heat pumps. This will allow for an increased efficiency in production and ultimately better value for our customers."

From heating to water and air, all the elements are covered with Clivet.

The ingenious designers at Clivet have come up with Clivet Smart Home a fully comprehensive comfort and green energy management system for the residential

of eco-sustainable products recently in central Asia and the Arabian Peninsula at trade shows. At ReExpo November 2022 in Kazakhstan Clivet demonstrated its chillers, VRF systems and air handling units to industry delegates from countries including Georgia and Turkey. Furthermore, in December 2022 at The Big 5 HVAC Exhibition Clivet proudly demonstrated its full range to interested parties from the construction industry.

Industry Update is impressed with the success of Clivet's innovative digital smart energy management systems and looks forward to seeing future HVAC sustainable products.

For further information see the following details
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The onset of climate change has brought unseasonably hotter summers and buildings need to be able to withstand unprecedented temperatures. High quality pumps and air conditioning systems need to cool buildings to regulate interior health and safety temperatures. Different buildings require varying demands on the water systems and air renewal functionality. Andy maintains that Clivet rises to the challenge and is able to supply systems for any building type and its requirements

"We produce specialised systems for any application and climate. That is why Clivet has created a series of specialised system solutions that simplify the